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AN EMPIRICAL ANALYSIS OF THE 10-15 KM MAXIMUM WINDS--  
TO DETERMINE APOLLO AND AAP LAUNCH OPPORTUNITIES  
CAPE KENNEDY, FLORIDA

Prepared under NASA Government Order No. H-76789 by  
Harold L. Crutcher and Nathaniel B. Guttman

ENVIRONMENTAL SCIENCE SERVICES ADMINISTRATION



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ENVIRONMENTAL SCIENCE SERVICES ADMINISTRATION  
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## SUMMARY

The first of this two-part study gives the launch opportunity empirical probabilities at Cape Kennedy, Florida. A launch opportunity is defined as an opportunity to launch a vehicle through the wind field of the 10-15 km region when certain specified prior conditions have been given for launching. Wind observations are available at 12-hour intervals. There may be one launch opportunity in each 12-hour period. The probabilities are presented for the number of opportunities for monthly reference periods. The periods range from one 12-hour interval to forty 12-hour intervals or twenty days. The probabilities are presented for both consecutive and non-consecutive opportunities. The second part of this study presents the empirical probabilities for no opportunity to launch a vehicle. Again, the consecutive and non-consecutive features are given for each month. The empirical probabilities are based on records available for the overall period from January 1956 through December 1963 for the Cape Kennedy area.

This study represents one of the few analyses of twice daily maximum 10-15 km layer winds in the Cape Kennedy area. The eight-year serially complete data sample used in the analysis is unique. It has been obtained through a thorough examination of all official upper air records in the Cape Kennedy area.

## I. INTRODUCTION

### A. Statement of Problem

Winds aloft play an important role in several aspects of the aerospace mission - first, in design studies; next, in mission planning; and finally, in launch operations. Because the maximum wind speed and the maximum vehicle dynamic pressure both usually occur in the altitudes between 10 and 15 km, that layer is usually of particular concern. This study, directed primarily to the mission planning problems, investigates the empirical probabilities of critical and non-critical wind speeds occurring in the maximum (10-15 km altitude) wind layer. A previous study by Lifsey [3] treats the problem of exposure of vehicles to surface winds for varying periods of time. Although the problem considered here is somewhat different, since the vehicle is exposed to winds aloft for very short time periods, the counting technique is similar. Because of the extremely short exposure time, the concept of "launch opportunity" was introduced. A launch opportunity is defined simply as an opportunity to launch a vehicle through the maximum wind (10-15 km) layer under specified prior wind speed constraints.

Since winds-aloft observations are made at 12-hour intervals, the terms of reference in this study are based on 12-hour periods; i.e., a launch opportunity covers 12 hours. For specified winds-aloft constraints, probability statements were developed for  $i$  consecutive opportunities and for  $i$  opportunities in  $j$  periods, where  $i$  ranges from 1 to 20 and  $j$  from 1 to 40. This was accomplished for two cases: first, for wind speeds equal to or greater than the specified wind speed; second, for wind speeds less than the specified wind speed. Some of the questions answered are as follows: (1) What is the probability of one launch opportunity in one 12-hour period, in two 12-hour periods, etc., to forty 12-hour periods? (2) What is the probability of two consecutive launch opportunities in two 12-hour periods, in three 12-hour periods, ..., in forty 12-hour periods? (3) What is the probability of two, three, four, ..., twenty launch opportunities in 2, 3, 4, ..., forty 12-hour periods where the opportunities need not be consecutive? (4) What is the probability that a launch opportunity will not exist for the same time periods described above? This important event, although not exactly a launch opportunity, is included under that title and identified in the tables as  $W \geq W^*$ .

## B. Data Sample.

Weather observing stations make routine periodic observations of existing surface and upper air weather. The upper air observations are summarized and recorded on standard forms [5]. Data are processed either manually or by means of a standard electronic data computer, and the records are sent by each station to the National Weather Records Center (NWRC) at Asheville, North Carolina, for final deposition and storage.

The National Aeronautics and Space Administration, George C. Marshall Space Flight Center, Huntsville, Alabama, maintains a continuing program for such information at the Environmental Science Services Administration, Environmental Data Service National Weather Records Center, Asheville, N. C., funded under Government Orders H-41949, H-66040, and H-76789 dated October 9, 1962, November 19, 1963, and December 4, 1964, respectively.

One task of the program is the serial completion of upper air winds for Cape Kennedy, Florida, at one-kilometer intervals from the surface to twenty-seven kilometers.<sup>1</sup> Serially complete records are available now for the period of January 1956 through December 1963. The techniques used to complete the records serially are given by Canfield et al. [1]. In brief, the available observed and recorded data are plotted on time cross sections. Where only one or two data points are missing, experienced meteorologists determine the most likely data for completing the record. Where larger gaps occur in the records, the meteorologists insert, at the appropriate locations, data from prepared wind tabulations computed for constant pressures and constant altitudes. Visual scans and electronic data computer program scans then are used to detect wind values which may exhibit unlikely vertical shears and changes with respect to time. These are examined and changed, if necessary, by experienced meteorologists.

From each observation of 8 years (Jan. 1, 1956 - Dec. 31, 1963) of twice-daily serially complete, Cape Kennedy, Florida, upper air observations, the maximum wind speed in the 10-15 km layer was extracted. These wind speeds plus the first thirty-nine observations from January 1964 (to compute the last forty 12-hour lag) comprise the data sample for this study.

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<sup>1</sup>This serial completion and certain computations have been made under Government Orders H-41949, H-66040, and H-76789 under supervision of the Terrestrial Environment Branch, Aerospace Environment Division, Aero-Astrodynamic Laboratory, NASA - George C. Marshall Space Flight Center, Huntsville, Alabama.

## II. ANALYSIS OF DATA

### A. Arrangement of Data

The data are separated into months for computation of the launch opportunities on a monthly basis. Speed groups (intervals) are selected as 5 meters per second (m/sec). However, the lower boundary for some months is different; i.e., the lowest wind speed for which values are computed for January is 25 m/sec while for May it is 10 m/sec. These wind speeds were selected by examining the extreme wind values for each reference period.

### B. Launch Opportunity Probability

The "launch opportunity" is computed from

$$P(A) = N_j(A)/N_j$$

where  $P(A)$  is the empirical probability of occurrence of an event A during a "launch" period of duration  $j$ , and  $N_j(A)$  is the number of launch opportunities of duration  $j$  in which event A has occurred. Therefore,

$$N_j = N - j + 1,$$

the total number of launch periods of duration  $j$  in a sequence of  $N$  consecutive values; i.e., the number of possible outcomes.

The relationships of  $N_j$  to  $N$  and  $j$  are as follows:

In period  $j$ , there is at least one possible outcome.

In period  $j + j$ , there are at least two possible outcomes.

In period  $j + 2j$ , there are at least three possible outcomes.

Therefore, in period  $j + kj$ , where  $k = 1, 2, 3, \dots$ , there are at least  $kj + 1$  possible outcomes.

### C. Procedure

For examples of the method used to compute the empirical probabilities, consider the hypothetical wind speed observations, Set A and Set B, of Table A. These are consecutive observations taken every 12 hours. Although these computations will apply to Set A, Set B will be used as required to complete any series begun in Set A.

TABLE A

Set A		Set B	
Observation No.	Wind Speed ( $W_s$ ) (m/sec)	Observation No.	Wind Speed ( $W_s$ ) (m/sec)
1	38	1	43
2	45	2	40
3	40	3	41
4	35	4	50
5	50	5	42

Assume  $W_s \geq 45$  m/sec to be a launch constraint. Those observations, or periods, showing  $W_s < 45$  m/sec, may then be designated as launch opportunities.

Now, we want the probability of 1, 2, 3, ..., i, consecutive launch opportunities ( $W_s < 45$ ) in 1, 2, 3, ..., j, consecutive periods. Table B shows the favorable occurrences for  $i = 1, 2, 3$ , and  $j = 1, 2, 3, 4, 5$ . For the case 1 opportunity in 1 period, it is only necessary to count the Set A wind speeds  $< 45$  m/sec. The three occurrences are entered under column 1, row 1, of Table B. Next, for example, count the occurrences of two consecutive launch opportunities in three periods. Consider the observations in series of 3 always starting in Set A; i.e.,

Set A 1, 2, 3;    Set A 2, 3, 4;    Set A 3, 4, 5;

Set A 4, 5, Set B 1;    Set A 5, Set B 1, 2.



TABLE B

j periods	i consecutive launch opportunities		
	1	2	3
1	3		
2	5	1	
3	5	3	
4	5	5	1
5	5	5	2

Of the five combinations of observations (periods), three contain two consecutive wind speeds less than 45 m/sec. Consequently, "3" is entered under column 2, row 3 of Table B.

Suppose now we want the probability of encountering 1, 2, 3, ..., i launch problems (wind speed  $\geq 45$  m/sec) in 1, 2, 3, ..., j periods, and that the launch problems need not be consecutive. Applying this statement to Set A as extended by Set B gives the results shown in Table C.

TABLE C

j periods	i launch problems		
	1	2	3
1	2		
2	4	0	
3	5	0	0
4	5	1	0
5	5	3	0

Again, a few examples may prove helpful. First, determine the number of times one launch problem in two periods occurs. Of the five combinations obtained by considering the observations two at a time -- Set A 1, 2; Set A 2, 3; Set A 3, 4; Set A 4, 5; Set A 5, Set B 1 -- four contain a launch problem ( $W_s = 45$  m/sec). Consequently, "4" is entered under column 1, row 2. Second, what is the probability of encountering two launch problems in four periods. Take the observations in series of four (Set A 1, 2, 3, 4; Set A 2, 3, 4, 5; Set A 3, 4, 5, Set B 1; Set A 4, 5, Set B 1, 2; Set A 5, Set B 1, 2, 3). Count those series that contain two wind speeds  $\geq 45$  m/sec. In this example, only one combination (Set A 2, 3, 4, 5) meets the requirement -- "1" then appears under column 2, row 4 of Table c.

The number of possible outcomes for  $j = 1$  is

$$N_k = N - j + 1 = 5;$$

for  $j = 2$ ,

$$N_k = 6 - 2 + 1 = 5,$$

and so on. The number of possible outcomes in all cases for Set A is 5. For any set of data, the number of possible outcomes is merely the number of elements in the set, provided the data are not truncated.

### III. RESULTS

The results of this study are presented in the Appendix, which is described and used as follows:

Tables 1.1.a through 12.13.b, Part I, show the empirical probabilities of wind speeds less than a specified speed group for (a)  $i$  consecutive launch opportunities in  $j$  periods where  $1 \leq i \leq 20$  and  $1 \leq j \leq 40$  12-hour periods, and (b)  $i$  launch opportunities in  $j$  periods. Part II lists the empirical probabilities of wind speeds equal to or greater than a specified speed group for the same (a) and (b) as in Part I.

Using Part I, Table 1.1.a as an example, the top row denotes  $i$ , the number of launch opportunities, and the first column denotes  $j$ , the number of 12-hour periods. Therefore, the probability of two consecutive launch opportunities in eight 12-hour periods (4 days) in January is equal to

0.054 for wind speeds less than 25 m/sec (48.6 knots). This low probability indicates that the maximum winds in the 10-15 km layer are stronger, in general, than 25 m/sec in January at Cape Kennedy, Florida. If the period is extended to 14 days, the probability is 0.167. Furthermore, if the events need not be consecutive, Table 1.1.b shows a probability of 0.214 for two launch opportunities in 14 days.

If a higher value for wind speed is chosen, say, 60 m/sec (116.5 knots), then Table 1.8.a shows an empirical probability of 0.891 that the winds will be less than 60 m/sec for two consecutive launch opportunities in a sequence of eight 12-hour periods (4 days). Furthermore, if the launch opportunities are not necessarily consecutive, then by Table 1.8.b, the empirical probability is 0.915 for two opportunities in four days and 1.00 for two opportunities in fourteen days.

The total number of observations in the sample is given in each table. For example, January has 496 observations for eight years or records with two observations per day.

Part II of the Appendix contains the empirical probabilities for wind speeds equal to or greater than a specified wind speed for the same groups as in Part I. The tables are read in the same manner as in Part I.

#### IV. CONCLUSION

Historical weather records provide information about twice daily maximum winds in the 10-15 km layer over Cape Kennedy, Florida. The information extracted is presented in percentage probabilities (relative frequencies). Empirical in nature (i.e., based solely on past observation), the results of this study indicate the pattern which these maximum winds of the troposphere over Cape Kennedy may be expected to follow in the future. For the design and operation of aerospace vehicles, this information can be applied to a variety of problems in which tropospheric maximum winds in the 10-15 km layer are a factor influencing the final decision.

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**APPENDIX**

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Tables

Part I:  $P(W < W^*)$

		Page
1.1.a	January consecutive launch opportunities	$W^* = 25$ m/sec 22
1.1.b	January launch opportunities	$W^* = 25$ m/sec 23
1.2.a	January consecutive launch opportunities	$W^* = 30$ m/sec 24
1.2.b	January launch opportunities	$W^* = 30$ m/sec 25
1.3.a	January consecutive launch opportunities	$W^* = 35$ m/sec 26
1.3.b	January launch opportunities	$W^* = 35$ m/sec 27
1.4.a	January consecutive launch opportunities	$W^* = 40$ m/sec 28
1.4.b	January launch opportunities	$W^* = 40$ m/sec 29
1.5.a	January consecutive launch opportunities	$W^* = 45$ m/sec 30
1.5.b	January launch opportunities	$W^* = 45$ m/sec 31
1.6.a	January consecutive launch opportunities	$W^* = 50$ m/sec 32
1.6.b	January launch opportunities	$W^* = 50$ m/sec 33
1.7.a	January consecutive launch opportunities	$W^* = 55$ m/sec 34
1.7.b	January launch opportunities	$W^* = 55$ m/sec 35
1.8.a	January consecutive launch opportunities	$W^* = 60$ m/sec 36
1.8.b	January launch opportunities	$W^* = 60$ m/sec 37
1.9.a	January consecutive launch opportunities	$W^* = 65$ m/sec 38
1.9.b	January launch opportunities	$W^* = 65$ m/sec 39
1.10.a	January consecutive launch opportunities	$W^* = 70$ m/sec 40
1.10.b	January launch opportunities	$W^* = 70$ m/sec 41
1.11.a	January consecutive launch opportunities	$W^* = 75$ m/sec 42
1.11.b	January launch opportunities	$W^* = 75$ m/sec 43
1.12.a	January consecutive launch opportunities	$W^* = 80$ m/sec 44
1.12.b	January launch opportunities	$W^* = 80$ m/sec 45

Tables

Part I:  $P(W < W^*)$

		Page
1.13.a	January consecutive launch opportunities	$W^* = 85$ m/sec 46
1.13.b	January launch opportunities	$W^* = 85$ m/sec 47
2.1.a	February consecutive launch opportunities	$W^* = 25$ m/sec 48
2.1.b	February launch opportunities	$W^* = 25$ m/sec 49
2.2.a	February consecutive launch opportunities	$W^* = 30$ m/sec 50
2.2.b	February launch opportunities	$W^* = 30$ m/sec 51
2.3.a	February consecutive launch opportunities	$W^* = 35$ m/sec 52
2.3.b	February launch opportunities	$W^* = 35$ m/sec 53
2.4.a	February consecutive launch opportunities	$W^* = 40$ m/sec 54
2.4.b	February launch opportunities	$W^* = 40$ m/sec 55
2.5.a	February consecutive launch opportunities	$W^* = 45$ m/sec 56
2.5.b	February launch opportunities	$W^* = 45$ m/sec 57
2.6.a	February consecutive launch opportunities	$W^* = 50$ m/sec 58
2.6.b	February launch opportunities	$W^* = 50$ m/sec 59
2.7.a	February consecutive launch opportunities	$W^* = 55$ m/sec 60
2.7.b	February launch opportunities	$W^* = 55$ m/sec 61
2.8.a	February consecutive launch opportunities	$W^* = 60$ m/sec 62
2.8.b	February launch opportunities	$W^* = 60$ m/sec 63
2.9.a	February consecutive launch opportunities	$W^* = 65$ m/sec 64
2.9.b	February launch opportunities	$W^* = 65$ m/sec 65
2.10.a	February consecutive launch opportunities	$W^* = 70$ m/sec 66
2.10.b	February launch opportunities	$W^* = 70$ m/sec 67
2.11.a	February consecutive launch opportunities	$W^* = 75$ m/sec 68
2.11.b	February launch opportunities	$W^* = 75$ m/sec 69

Tables

Part I:  $P(W < W^*)$

		Page
2.12.a	February consecutive launch opportunities	$W^* = 80$ m/sec 70
2.12.b	February launch opportunities	$W^* = 80$ m/sec 71
2.13.a	February consecutive launch opportunities	$W^* = 85$ m/sec 72
2.13.b	February launch opportunities	$W^* = 85$ m/sec 73
2.14.a	February consecutive launch opportunities	$W^* = 90$ m/sec 74
2.14.b	February launch opportunities	$W^* = 90$ m/sec 75
3.1.a	March consecutive launch opportunities	$W^* = 25$ m/sec 76
3.1.b	March launch opportunities	$W^* = 25$ m/sec 77
3.2.a	March consecutive launch opportunities	$W^* = 30$ m/sec 78
3.2.b	March launch opportunities	$W^* = 30$ m/sec 79
3.3.a	March consecutive launch opportunities	$W^* = 35$ m/sec 80
3.3.b	March launch opportunities	$W^* = 35$ m/sec 81
3.4.a	March consecutive launch opportunities	$W^* = 40$ m/sec 82
3.4.b	March launch opportunities	$W^* = 40$ m/sec 83
3.5.a	March consecutive launch opportunities	$W^* = 45$ m/sec 84
3.5.b	March launch opportunities	$W^* = 45$ m/sec 85
3.6.a	March consecutive launch opportunities	$W^* = 50$ m/sec 86
3.6.b	March launch opportunities	$W^* = 50$ m/sec 87
3.7.a	March consecutive launch opportunities	$W^* = 55$ m/sec 88
3.7.b	March launch opportunities	$W^* = 55$ m/sec 89
3.8.a	March consecutive launch opportunities	$W^* = 60$ m/sec 90
3.8.b	March launch opportunities	$W^* = 60$ m/sec 91
3.9.a	March consecutive launch opportunities	$W^* = 65$ m/sec 92
3.9.b	March launch opportunities	$W^* = 65$ m/sec 93



## Tables

### Part I: $P(W < W^*)$

		Page
3.10.a March consecutive launch opportunities	$W^* = 70$ m/sec	94
3.10.b March launch opportunities	$W^* = 70$ m/sec	95
3.11.a March consecutive launch opportunities	$W^* = 75$ m/sec	96
3.11.b March launch opportunities	$W^* = 75$ m/sec	97
3.12.a March consecutive launch opportunities	$W^* = 80$ m/sec	98
3.12.b March launch opportunities	$W^* = 80$ m/sec	99
3.13.a March consecutive launch opportunities	$W^* = 85$ m/sec	100
3.13.b March launch opportunities	$W^* = 85$ m/sec	101
3.14.a March consecutive launch opportunities	$W^* = 90$ m/sec	102
3.14.b March launch opportunities	$W^* = 90$ m/sec	103
3.15.a March consecutive launch opportunities	$W^* = 95$ m/sec	104
3.15.b March launch opportunities	$W^* = 95$ m/sec	105
4.1.a April consecutive launch opportunities	$W^* = 15$ m/sec	106
4.1.b April launch opportunities	$W^* = 15$ m/sec	107
4.2.a April consecutive launch opportunities	$W^* = 20$ m/sec	108
4.2.b April launch opportunities	$W^* = 20$ m/sec	109
4.3.a April consecutive launch opportunities	$W^* = 25$ m/sec	110
4.3.b April launch opportunities	$W^* = 25$ m/sec	111
4.4.a April consecutive launch opportunities	$W^* = 30$ m/sec	112
4.4.b April launch opportunities	$W^* = 30$ m/sec	113
4.5.a April consecutive launch opportunities	$W^* = 35$ m/sec	114
4.5.b April launch opportunities	$W^* = 35$ m/sec	115
4.6.a April consecutive launch opportunities	$W^* = 40$ m/sec	116
4.6.b April launch opportunities	$W^* = 40$ m/sec	117

Tables

Part I:  $P(W < W^*)$

		Page
4.7.a	April consecutive launch opportunities	$W^* = 45$ m/sec 118
4.7.b	April launch opportunities	$W^* = 45$ m/sec 119
4.8.a	April consecutive launch opportunities	$W^* = 50$ m/sec 120
4.8.b	April launch opportunities	$W^* = 50$ m/sec 121
4.9.a	April consecutive launch opportunities	$W^* = 55$ m/sec 122
4.9.b	April launch opportunities	$W^* = 55$ m/sec 123
4.10.a	April consecutive launch opportunities	$W^* = 60$ m/sec 124
4.10.b	April launch opportunities	$W^* = 60$ m/sec 125
4.11.a	April consecutive launch opportunities	$W^* = 65$ m/sec 126
4.11.b	April launch opportunities	$W^* = 65$ m/sec 127
4.12.a	April consecutive launch opportunities	$W^* = 70$ m/sec 128
4.12.b	April launch opportunities	$W^* = 70$ m/sec 129
4.13.a	April consecutive launch opportunities	$W^* = 75$ m/sec 130
4.13.b	April launch opportunities	$W^* = 75$ m/sec 131
4.14.a	April consecutive launch opportunities	$W^* = 80$ m/sec 132
4.14.b	April launch opportunities	$W^* = 80$ m/sec 133
5.1.a	May consecutive launch opportunities	$W^* = 10$ m/sec 134
5.1.b	May launch opportunities	$W^* = 10$ m/sec 135
5.2.a	May consecutive launch opportunities	$W^* = 15$ m/sec 136
5.2.b	May launch opportunities	$W^* = 15$ m/sec 137
5.3.a	May consecutive launch opportunities	$W^* = 20$ m/sec 138
5.3.b	May launch opportunities	$W^* = 20$ m/sec 139
5.4.a	May consecutive launch opportunities	$W^* = 25$ m/sec 140
5.4.b	May launch opportunities	$W^* = 25$ m/sec 141

Tables

Part I:  $P(W < W^*)$

		Page
5.5.a	May consecutive launch opportunities	$W^* = 30$ m/sec 142
5.5.b	May launch opportunities	$W^* = 30$ m/sec 143
5.6.a	May consecutive launch opportunities	$W^* = 35$ m/sec 144
5.6.b	May launch opportunities	$W^* = 35$ m/sec 145
5.7.a	May consecutive launch opportunities	$W^* = 40$ m/sec 146
5.7.b	May launch opportunities	$W^* = 40$ m/sec 147
5.8.a	May consecutive launch opportunities	$W^* = 45$ m/sec 148
5.8.b	May launch opportunities	$W^* = 45$ m/sec 149
5.9.a	May consecutive launch opportunities	$W^* = 50$ m/sec 150
5.9.b	May launch opportunities	$W^* = 50$ m/sec 151
5.10.a	May consecutive launch opportunities	$W^* = 55$ m/sec 152
5.10.b	May launch opportunities	$W^* = 55$ m/sec 153
6.1.a	June consecutive launch opportunities	$W^* = 10$ m/sec 154
6.1.b	June launch opportunities	$W^* = 10$ m/sec 155
6.2.a	June consecutive launch opportunities	$W^* = 15$ m/sec 156
6.2.b	June launch opportunities	$W^* = 15$ m/sec 157
6.3.a	June consecutive launch opportunities	$W^* = 20$ m/sec 158
6.3.b	June launch opportunities	$W^* = 20$ m/sec 159
6.4.a	June consecutive launch opportunities	$W^* = 25$ m/sec 160
6.4.b	June launch opportunities	$W^* = 25$ m/sec 161
6.5.a	June consecutive launch opportunities	$W^* = 30$ m/sec 162
6.5.b	June launch opportunities	$W^* = 30$ m/sec 163
6.6.a	June consecutive launch opportunities	$W^* = 35$ m/sec 164
6.6.b	June launch opportunities	$W^* = 35$ m/sec 165

Tables

Part I:  $P(W < W^*)$

		Page
6.7.a	June consecutive launch opportunities	$W^* = 40$ m/sec 166
6.7.b	June launch opportunities	$W^* = 40$ m/sec 167
7.1.a	July consecutive launch opportunities	$W^* = 10$ m/sec 168
7.1.b	July launch opportunities	$W^* = 10$ m/sec 169
7.2.a	July consecutive launch opportunities	$W^* = 15$ m/sec 170
7.2.b	July launch opportunities	$W^* = 15$ m/sec 171
7.3.a	July consecutive launch opportunities	$W^* = 20$ m/sec 172
7.3.b	July launch opportunities	$W^* = 20$ m/sec 173
7.4.a	July consecutive launch opportunities	$W^* = 25$ m/sec 174
7.4.b	July launch opportunities	$W^* = 25$ m/sec 175
7.5.a	July consecutive launch opportunities	$W^* = 30$ m/sec 176
7.5.b	July launch opportunities	$W^* = 30$ m/sec 177
8.1.a	August consecutive launch opportunities	$W^* = 10$ m/sec 178
8.1.b	August launch opportunities	$W^* = 10$ m/sec 179
8.2.a	August consecutive launch opportunities	$W^* = 15$ m/sec 180
8.2.b	August launch opportunities	$W^* = 15$ m/sec 181
8.3.a	August consecutive launch opportunities	$W^* = 20$ m/sec 182
8.3.b	August launch opportunities	$W^* = 20$ m/sec 183
8.4.a	August consecutive launch opportunities	$W^* = 25$ m/sec 184
8.4.b	August launch opportunities	$W^* = 25$ m/sec 185
8.5.a	August consecutive launch opportunities	$W^* = 30$ m/sec 186
8.5.b	August launch opportunities	$W^* = 30$ m/sec 187
9.1.a	September consecutive launch opportunities	$W^* = 10$ m/sec 188
9.1.b	September launch opportunities	$W^* = 10$ m/sec 189

Tables

Part I:  $P(W < W^*)$

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9.3.a	September consecutive launch opportunities $W^* = 20$ m/sec	192
9.3.b	September launch opportunities $W^* = 20$ m/sec	193
9.4.a	September consecutive launch opportunities $W^* = 25$ m/sec	194
9.4.b	September launch opportunities $W^* = 25$ m/sec	195
9.5.a	September consecutive launch opportunities $W^* = 30$ m/sec	196
9.5.b	September launch opportunities $W^* = 30$ m/sec	197
9.6.a	September consecutive launch opportunities $W^* = 35$ m/sec	198
9.6.b	September launch opportunities $W^* = 35$ m/sec	199
9.7.a	September consecutive launch opportunities $W^* = 40$ m/sec	200
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9.8.a	September consecutive launch opportunities $W^* = 45$ m/sec	202
9.8.b	September launch opportunities $W^* = 45$ m/sec	203
10.1.a	October consecutive launch opportunities $W^* = 10$ m/sec	204
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10.2.a	October consecutive launch opportunities $W^* = 15$ m/sec	206
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10.3.a	October consecutive launch opportunities $W^* = 20$ m/sec	208
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Tables

Part I:  $P(W < W^*)$

		Page
10.6.a	October consecutive launch opportunities	$W^* = 35$ m/sec 214
10.6.b	October launch opportunities	$W^* = 35$ m/sec 215
10.7.a	October consecutive launch opportunities	$W^* = 40$ m/sec 216
10.7.b	October launch opportunities	$W^* = 40$ m/sec 217
10.8.a	October consecutive launch opportunities	$W^* = 45$ m/sec 218
10.8.b	October launch opportunities	$W^* = 45$ m/sec 219
10.9.a	October consecutive launch opportunities	$W^* = 50$ m/sec 220
10.9.b	October launch opportunities	$W^* = 50$ m/sec 221
10.10.a	October consecutive launch opportunities	$W^* = 55$ m/sec 222
10.10.b	October launch opportunities	$W^* = 55$ m/sec 223
10.11.a	October consecutive launch opportunities	$W^* = 60$ m/sec 224
10.11.b	October launch opportunities	$W^* = 60$ m/sec 225
10.12.a	October consecutive launch opportunities	$W^* = 65$ m/sec 226
10.12.b	October launch opportunities	$W^* = 65$ m/sec 227
11.1.a	November consecutive launch opportunities	$W^* = 15$ m/sec 228
11.1.b	November launch opportunities	$W^* = 15$ m/sec 229
11.2.a	November consecutive launch opportunities	$W^* = 20$ m/sec 230
11.2.b	November launch opportunities	$W^* = 20$ m/sec 231
11.3.a	November consecutive launch opportunities	$W^* = 25$ m/sec 232
11.3.b	November launch opportunities	$W^* = 25$ m/sec 233
11.4.a	November consecutive launch opportunities	$W^* = 30$ m/sec 234
11.4.b	November launch opportunities	$W^* = 30$ m/sec 235
11.5.a	November consecutive launch opportunities	$W^* = 35$ m/sec 236
11.5.b	November launch opportunities	$W^* = 35$ m/sec 237

Tables

Part I:  $P(w < W^*)$

		Page
11.6.a	November consecutive launch opportunities	$W^* = 40$ m/sec 238
11.6.b	November launch opportunities	$w = 40$ m/sec 239
11.7.a	November consecutive launch opportunities	$W^* = 45$ m/sec 240
11.7.b	November launch opportunities	$W^* = 45$ m/sec 241
11.8.a	November consecutive launch opportunities	$W^* = 50$ m/sec 242
11.8.b	November launch opportunities	$W^* = 50$ m/sec 243
11.9.a	November consecutive launch opportunities	$W^* = 55$ m/sec 244
11.9.b	November launch opportunities	$W^* = 55$ m/sec 245
11.10.a	November consecutive launch opportunities	$W^* = 60$ m/sec 246
11.10.b	November launch opportunities	$W^* = 60$ m/sec 247
11.11.a	November consecutive launch opportunities	$W^* = 65$ m/sec 248
11.11.b	November launch opportunities	$W^* = 65$ m/sec 249
11.12.a	November consecutive launch opportunities	$W^* = 70$ m/sec 250
11.12.b	November launch opportunities	$W^* = 70$ m/sec 251
11.13.a	November consecutive launch opportunities	$W^* = 75$ m/sec 252
11.13.b	November launch opportunities	$W^* = 75$ m/sec 253
11.14.a	November consecutive launch opportunities	$W^* = 80$ m/sec 254
11.14.b	November launch opportunities	$W^* = 80$ m/sec 255
12.1.a	December consecutive launch opportunities	$W^* = 20$ m/sec 256
12.1.b	December launch opportunities	$W^* = 20$ m/sec 257
12.2.a	December consecutive launch opportunities	$W^* = 25$ m/sec 258
12.2.b	December launch opportunities	$W^* = 25$ m/sec 259
12.3.a	December consecutive launch opportunities	$W^* = 30$ m/sec 260
12.3.b	December launch opportunities	$W^* = 30$ m/sec 261

Tables

Part I:  $P(W < W^*)$

		Page
12.4.a	December consecutive launch opportunities	$W^* = 55$ m/sec 262
12.4.b	December launch opportunities	$W^* = 35$ m/sec 263
12.5.a	December consecutive launch opportunities	$W^* = 40$ m/sec 264
12.5.b	December launch opportunities	$W^* = 40$ m/sec 265
12.6.a	December consecutive launch opportunities	$W^* = 45$ m/sec 266
12.6.b	December launch opportunities	$W^* = 45$ m/sec 267
12.7.a	December consecutive launch opportunities	$W^* = 50$ m/sec 268
12.7.b	December launch opportunities	$W^* = 50$ m/sec 269
12.8.a	December consecutive launch opportunities	$W^* = 55$ m/sec 270
12.8.b	December launch opportunities	$W^* = 55$ m/sec 271
12.9.a	December consecutive launch opportunities	$W^* = 60$ m/sec 272
12.9.b	December launch opportunities	$W^* = 60$ m/sec 273
12.10.a	December consecutive launch opportunities	$W^* = 65$ m/sec 274
12.10.b	December launch opportunities	$W^* = 65$ m/sec 275
12.11.a	December consecutive launch opportunities	$W^* = 70$ m/sec 276
12.11.b	December launch opportunities	$W^* = 70$ m/sec 277
12.12.a	December consecutive launch opportunities	$W^* = 75$ m/sec 280
12.12.b	December launch opportunities	$W^* = 75$ m/sec 281
12.13.a	December consecutive launch opportunities	$W^* = 80$ m/sec 282
12.13.b	December launch opportunities	$W^* = 80$ m/sec 283



CAPE KENNEDY, FLORIDA JANUARY  
SPEEDS LESS THAN 025 MPS

PC ( I CONSECUTIVE SUCCESSES IN J PERIODS )

J	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
1	.020																			
2	.030	.012																		
3	.040	.020	.006																	
4	.050	.028	.010	.004																
5	.060	.036	.014	.006	.004															
6	.071	.042	.018	.008	.006	.004														
7	.083	.048	.022	.010	.008	.006	.004													
8	.093	.054	.024	.012	.010	.008	.006	.004												
9	.103	.060	.026	.014	.012	.010	.008	.006	.004											
10	.113	.067	.028	.016	.014	.012	.010	.008	.006	.004										
11	.123	.073	.030	.018	.016	.014	.012	.010	.008	.006	.004									
12	.133	.079	.032	.020	.018	.016	.014	.012	.010	.008	.006	.004								
13	.143	.087	.034	.022	.020	.018	.016	.014	.012	.010	.008	.006	.004							
14	.153	.095	.036	.024	.022	.020	.018	.016	.014	.012	.010	.008	.006	.004						
15	.163	.101	.038	.026	.024	.022	.020	.018	.016	.014	.012	.010	.008	.006	.004					
16	.173	.107	.040	.028	.026	.024	.022	.020	.018	.016	.014	.012	.010	.008	.006	.002				
17	.183	.113	.042	.030	.028	.026	.024	.022	.020	.018	.016	.014	.012	.010	.008	.004	.000			
18	.194	.119	.044	.032	.030	.028	.026	.024	.022	.020	.018	.016	.014	.012	.010	.006	.000	.000		
19	.204	.125	.046	.034	.032	.030	.028	.026	.024	.022	.020	.018	.016	.014	.012	.008	.000	.000	.000	
20	.212	.131	.048	.036	.034	.032	.030	.028	.026	.024	.022	.020	.018	.016	.014	.010	.000	.000	.000	.000
21	.220	.135	.050	.038	.036	.034	.032	.030	.028	.026	.024	.022	.020	.018	.016	.012	.000	.000	.000	.000
22	.228	.139	.052	.040	.038	.036	.034	.032	.030	.028	.026	.024	.022	.020	.018	.014	.000	.000	.000	.000
23	.238	.143	.054	.042	.040	.038	.036	.034	.032	.030	.028	.026	.024	.022	.020	.016	.000	.000	.000	.000
24	.248	.147	.056	.044	.042	.040	.038	.036	.034	.032	.030	.028	.026	.024	.022	.018	.000	.000	.000	.000
25	.258	.151	.058	.046	.044	.042	.040	.038	.036	.034	.032	.030	.028	.026	.024	.020	.000	.000	.000	.000
26	.270	.155	.060	.048	.046	.044	.042	.040	.038	.036	.034	.032	.030	.028	.026	.022	.000	.000	.000	.000
27	.282	.161	.063	.050	.048	.046	.044	.042	.040	.038	.036	.034	.032	.030	.028	.024	.000	.000	.000	.000
28	.294	.167	.065	.052	.050	.048	.046	.044	.042	.040	.038	.036	.034	.032	.030	.026	.000	.000	.000	.000
29	.306	.173	.067	.054	.052	.050	.048	.046	.044	.042	.040	.038	.036	.034	.032	.028	.000	.000	.000	.000
30	.321	.179	.069	.056	.054	.052	.050	.048	.046	.044	.042	.040	.038	.036	.034	.030	.000	.000	.000	.000
31	.335	.185	.071	.058	.056	.054	.052	.050	.048	.046	.044	.042	.040	.038	.036	.032	.000	.000	.000	.000
32	.349	.192	.073	.060	.058	.056	.054	.052	.050	.048	.046	.044	.042	.040	.038	.034	.000	.000	.000	.000
33	.363	.198	.075	.063	.060	.058	.056	.054	.052	.050	.048	.046	.044	.042	.040	.036	.000	.000	.000	.000
34	.377	.204	.077	.065	.063	.060	.058	.056	.054	.052	.050	.048	.046	.044	.042	.038	.000	.000	.000	.000
35	.391	.210	.079	.067	.065	.063	.060	.058	.056	.054	.052	.050	.048	.046	.044	.040	.000	.000	.000	.000
36	.405	.216	.081	.069	.067	.065	.063	.060	.058	.056	.054	.052	.050	.048	.046	.042	.000	.000	.000	.000
37	.417	.222	.083	.071	.069	.067	.065	.063	.060	.058	.056	.054	.052	.050	.048	.044	.000	.000	.000	.000
38	.429	.228	.085	.073	.071	.069	.067	.065	.063	.060	.058	.056	.054	.052	.050	.046	.000	.000	.000	.000
39	.442	.232	.087	.075	.073	.071	.069	.067	.065	.063	.060	.058	.056	.054	.052	.048	.000	.000	.000	.000
40	.452	.236	.089	.077	.075	.073	.071	.069	.067	.065	.063	.060	.058	.056	.054	.050	.000	.000	.000	.000

TOTAL OBSERVATIONS 496

TABLE 1. 1-a. P(W < W\*) I CONSECUTIVE LAUNCH OPPORTUNITIES IN J PERIODS (W\* = 25 M/SEC).  
BASED ON MAXIMUM WIND SPEEDS IN THE 10-15 KM LAYER OVER CAPE KENNEDY, FLORIDA.  
PERIOD OF RECORD JANUARY 1956 - DECEMBER 1963.

CAPE KENNEDY - FLORIDA JANUARY  
SPEEDS LESS THAN 025 MPS

P ( I SUCCESSES IN J PERIODS )

J	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	
1	.020																				
2	.030	.012																			
3	.040	.020	.006																		
4	.050	.030	.010	.004																	
5	.060	.036	.018	.006	.004																
6	.071	.044	.020	.014	.006	.004															
7	.083	.052	.022	.016	.014	.006	.004														
8	.093	.063	.024	.018	.016	.014	.006	.004													
9	.103	.071	.028	.020	.018	.016	.014	.006	.004												
10	.113	.079	.032	.022	.020	.018	.016	.014	.006	.004											
11	.123	.087	.038	.024	.022	.020	.018	.016	.014	.006	.004										
12	.133	.097	.044	.026	.024	.022	.020	.018	.016	.014	.006	.004									
13	.143	.105	.054	.028	.026	.024	.022	.020	.018	.016	.014	.006	.004								
14	.153	.113	.060	.034	.028	.026	.024	.022	.020	.018	.016	.014	.006	.004							
15	.163	.121	.067	.038	.032	.028	.026	.024	.022	.020	.018	.016	.014	.006	.004						
16	.173	.129	.073	.044	.036	.030	.028	.026	.024	.022	.020	.018	.016	.014	.006	.002					
17	.183	.137	.079	.048	.042	.032	.030	.028	.026	.024	.022	.020	.018	.016	.014	.004	.000				
18	.194	.145	.085	.052	.048	.036	.032	.030	.028	.026	.024	.022	.020	.018	.016	.012	.000	.000			
19	.204	.153	.091	.056	.052	.044	.034	.032	.030	.028	.026	.024	.022	.020	.018	.014	.006	.000	.000		
20	.212	.161	.097	.060	.056	.048	.040	.034	.032	.030	.028	.026	.024	.022	.020	.018	.008	.004	.000	.000	
21	.220	.167	.103	.065	.060	.052	.044	.038	.034	.032	.030	.028	.026	.024	.022	.020	.012	.006	.002	.000	
22	.228	.173	.109	.069	.065	.056	.048	.042	.036	.034	.032	.030	.028	.026	.024	.022	.016	.008	.004	.000	
23	.238	.179	.115	.073	.069	.060	.052	.046	.038	.036	.034	.032	.030	.028	.026	.024	.020	.010	.006	.000	
24	.248	.185	.121	.077	.073	.065	.056	.050	.040	.038	.036	.034	.032	.030	.028	.026	.022	.014	.008	.000	
25	.258	.192	.127	.081	.077	.069	.060	.054	.042	.040	.038	.036	.034	.032	.030	.028	.024	.016	.012	.000	
26	.270	.198	.133	.085	.081	.073	.065	.058	.044	.042	.040	.038	.036	.034	.032	.030	.026	.018	.014	.002	
27	.282	.206	.139	.089	.085	.077	.069	.063	.046	.044	.042	.040	.038	.036	.034	.032	.028	.020	.016	.004	
28	.294	.214	.145	.093	.089	.081	.073	.067	.048	.046	.044	.042	.040	.038	.036	.034	.030	.022	.018	.006	
29	.306	.222	.151	.097	.093	.085	.077	.071	.050	.048	.046	.044	.042	.040	.038	.036	.032	.024	.020	.008	
30	.321	.230	.157	.101	.097	.089	.081	.075	.052	.050	.048	.046	.044	.042	.040	.038	.034	.026	.022	.010	
31	.335	.238	.163	.105	.101	.093	.085	.079	.054	.052	.050	.048	.046	.044	.042	.040	.036	.028	.024	.012	
32	.349	.246	.169	.109	.105	.097	.089	.083	.056	.054	.052	.050	.048	.046	.044	.042	.038	.030	.026	.014	
33	.363	.254	.175	.113	.109	.101	.093	.087	.058	.056	.054	.052	.050	.048	.046	.044	.040	.032	.028	.016	
34	.377	.262	.181	.117	.113	.105	.097	.091	.060	.058	.056	.054	.052	.050	.048	.046	.042	.034	.030	.018	
35	.391	.272	.188	.121	.117	.109	.101	.095	.063	.060	.058	.056	.054	.052	.050	.048	.044	.036	.032	.020	
36	.405	.282	.194	.125	.121	.113	.107	.099	.065	.063	.060	.058	.056	.054	.052	.050	.046	.038	.034	.022	
37	.417	.294	.200	.129	.125	.117	.111	.105	.067	.065	.063	.060	.058	.056	.054	.052	.048	.040	.036	.024	
38	.429	.302	.210	.133	.129	.121	.115	.109	.071	.067	.065	.063	.060	.058	.056	.054	.050	.042	.038	.026	
39	.442	.310	.216	.141	.133	.125	.119	.113	.075	.069	.067	.065	.063	.060	.058	.056	.052	.044	.040	.028	
40	.452	.321	.222	.147	.139	.129	.123	.117	.079	.071	.069	.067	.065	.063	.060	.058	.054	.046	.042	.030	

TOTAL OBSERVATIONS 496

TABLE 1. 1.b. P(W < W\*) I LAUNCH OPPORTUNITIES IN J PERIODS (W\* = 25 M/SEC).  
BASED ON MAXIMUM WIND SPEEDS IN THE 10-15 KM LAYER OVER CAPE KENNEDY, FLORIDA.  
PERIOD OF RECORD JANUARY 1956 - DECEMBER 1963.

CAPE KENNEDY . FLORIDA JANUARY  
SPEEDS LESS THAN 030 MPS

PC ( I CONSECUTIVE SUCCESSES IN J PERIODS )

J	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
1	.063																			
2	.089	.036																		
3	.107	.050	.024																	
4	.125	.067	.028	.022																
5	.141	.081	.034	.026	.020															
6	.157	.095	.042	.032	.024	.018														
7	.171	.107	.050	.040	.030	.020	.018													
8	.185	.119	.058	.044	.038	.022	.020	.018												
9	.200	.131	.067	.056	.046	.024	.022	.020	.018											
10	.214	.143	.075	.065	.054	.026	.024	.022	.020	.018										
11	.226	.155	.083	.073	.063	.028	.026	.024	.022	.020	.018									
12	.236	.167	.091	.081	.071	.030	.028	.026	.024	.022	.020	.018								
13	.246	.179	.099	.089	.079	.032	.030	.028	.026	.024	.022	.020	.018							
14	.256	.190	.107	.097	.087	.034	.032	.030	.028	.026	.024	.022	.020	.018						
15	.266	.200	.115	.105	.095	.036	.034	.032	.030	.028	.026	.024	.022	.020	.018					
16	.276	.210	.123	.113	.103	.040	.036	.034	.032	.030	.028	.026	.024	.022	.020	.018				
17	.286	.220	.131	.121	.111	.044	.040	.036	.034	.032	.030	.028	.026	.024	.022	.020	.016			
18	.294	.230	.139	.129	.119	.048	.044	.040	.036	.034	.032	.030	.028	.026	.024	.022	.018	.014		
19	.302	.238	.147	.137	.127	.052	.048	.044	.040	.036	.034	.032	.030	.028	.026	.024	.020	.016	.012	
20	.310	.246	.153	.145	.135	.056	.052	.048	.044	.040	.036	.034	.032	.030	.028	.026	.022	.018	.014	.010
21	.317	.254	.159	.151	.143	.060	.056	.052	.048	.044	.038	.036	.034	.032	.030	.028	.024	.020	.016	.012
22	.323	.262	.165	.157	.149	.065	.060	.056	.052	.048	.040	.038	.036	.034	.032	.030	.026	.022	.018	.014
23	.331	.270	.171	.163	.155	.069	.065	.060	.056	.052	.042	.040	.038	.036	.034	.032	.028	.024	.020	.016
24	.339	.280	.177	.169	.161	.073	.069	.065	.060	.056	.044	.042	.040	.038	.036	.034	.030	.026	.022	.018
25	.347	.290	.183	.175	.167	.077	.073	.069	.065	.060	.045	.044	.042	.040	.038	.036	.032	.028	.024	.020
26	.357	.300	.190	.181	.173	.081	.077	.073	.069	.065	.048	.046	.044	.042	.040	.038	.034	.030	.026	.022
27	.367	.313	.196	.188	.179	.085	.081	.077	.073	.069	.050	.048	.046	.044	.042	.040	.036	.032	.028	.024
28	.377	.325	.204	.194	.185	.089	.085	.081	.077	.073	.052	.050	.048	.046	.044	.042	.038	.034	.030	.026
29	.387	.337	.212	.200	.192	.093	.089	.085	.081	.077	.054	.052	.050	.048	.046	.044	.040	.036	.032	.028
30	.399	.347	.220	.206	.198	.097	.093	.089	.085	.081	.056	.054	.052	.050	.048	.046	.042	.038	.034	.030
31	.411	.359	.228	.212	.204	.101	.097	.093	.089	.085	.058	.056	.054	.052	.050	.048	.044	.040	.036	.032
32	.423	.371	.236	.218	.210	.105	.101	.097	.093	.089	.060	.058	.056	.054	.052	.050	.046	.042	.038	.034
33	.435	.383	.244	.224	.216	.109	.105	.101	.097	.093	.063	.060	.058	.056	.054	.052	.048	.044	.040	.036
34	.448	.395	.252	.230	.222	.113	.109	.105	.101	.097	.065	.063	.060	.058	.056	.054	.050	.046	.042	.038
35	.460	.407	.260	.236	.228	.117	.113	.109	.105	.101	.067	.065	.063	.060	.058	.056	.052	.048	.044	.040
36	.472	.419	.268	.242	.234	.121	.117	.113	.109	.105	.069	.067	.065	.063	.060	.058	.054	.050	.046	.042
37	.484	.431	.276	.248	.240	.125	.121	.117	.113	.109	.071	.069	.067	.065	.063	.060	.056	.052	.048	.044
38	.496	.444	.282	.254	.246	.129	.125	.121	.117	.113	.073	.071	.069	.067	.065	.063	.058	.054	.050	.046
39	.506	.456	.288	.260	.252	.133	.129	.125	.121	.117	.075	.073	.071	.069	.067	.065	.060	.056	.052	.048
40	.516	.468	.294	.264	.258	.137	.133	.129	.125	.121	.077	.075	.073	.071	.069	.067	.063	.058	.054	.050

TOTAL OBSERVATIONS 496

TABLE 1. 2.a. P(W < W\*) I CONSECUTIVE LAUNCH OPPORTUNITIES IN J PERIODS (W\* = 30 M/SEC).  
BASED ON MAXIMUM WIND SPEEDS IN THE 10-15 KM LAYER OVER CAPE KENNEDY, FLORIDA.  
PERIOD OF RECORD JANUARY 1956 - DECEMBER 1963.

CAPE KENNEDY , FLORIDA JANUARY  
SPEEDS LESS THAN 030 MPS

P ( I SUCCESSES IN J PERIODS )

J	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
1	.063																			
2	.089	.036																		
3	.107	.060	.024																	
4	.125	.079	.038	.022																
5	.141	.097	.052	.032	.020															
6	.157	.109	.071	.044	.028	.018														
7	.171	.121	.083	.058	.040	.024	.018													
8	.185	.133	.091	.071	.054	.034	.022	.018												
9	.200	.145	.099	.079	.067	.044	.032	.020	.018											
10	.214	.157	.107	.087	.075	.054	.040	.028	.020	.018										
11	.226	.169	.115	.095	.083	.065	.050	.034	.026	.020	.018									
12	.236	.183	.123	.103	.091	.073	.063	.042	.032	.024	.020	.018								
13	.246	.194	.135	.111	.099	.081	.071	.054	.038	.028	.024	.020	.018							
14	.256	.204	.145	.121	.107	.089	.079	.065	.048	.032	.028	.024	.020	.018						
15	.266	.214	.155	.131	.115	.097	.087	.073	.056	.040	.032	.028	.024	.020	.018					
16	.276	.224	.165	.141	.123	.105	.095	.081	.063	.046	.040	.032	.028	.024	.020	.018				
17	.286	.234	.175	.151	.131	.113	.103	.089	.069	.050	.046	.040	.032	.028	.024	.020	.016			
18	.294	.244	.185	.161	.139	.121	.111	.097	.075	.054	.050	.046	.040	.032	.028	.024	.018	.014		
19	.302	.252	.196	.171	.147	.129	.119	.105	.081	.058	.054	.050	.046	.040	.032	.028	.024	.016	.012	
20	.310	.260	.204	.181	.155	.137	.127	.113	.087	.063	.058	.054	.050	.046	.040	.032	.028	.024	.014	.010
21	.317	.270	.212	.190	.163	.145	.135	.121	.093	.067	.063	.058	.054	.050	.046	.038	.032	.028	.024	.012
22	.323	.278	.222	.198	.169	.153	.143	.129	.099	.071	.067	.063	.058	.054	.050	.044	.036	.032	.028	.022
23	.331	.284	.234	.206	.175	.161	.151	.137	.105	.075	.071	.067	.063	.058	.054	.048	.042	.034	.032	.026
24	.339	.292	.242	.218	.181	.167	.159	.145	.111	.079	.075	.071	.067	.063	.058	.052	.046	.038	.034	.030
25	.347	.300	.248	.230	.190	.173	.165	.153	.117	.083	.079	.075	.071	.067	.063	.056	.050	.042	.036	.032
26	.357	.308	.254	.238	.202	.179	.171	.161	.123	.087	.083	.079	.075	.071	.067	.060	.054	.046	.038	.034
27	.367	.319	.260	.246	.210	.190	.177	.167	.129	.091	.087	.083	.079	.075	.071	.065	.058	.050	.040	.036
28	.377	.329	.268	.252	.218	.200	.185	.173	.133	.095	.091	.087	.083	.079	.075	.069	.063	.054	.042	.038
29	.387	.339	.276	.258	.222	.210	.196	.181	.137	.099	.095	.091	.087	.083	.079	.073	.067	.058	.044	.040
30	.399	.349	.284	.264	.226	.216	.208	.190	.143	.103	.099	.095	.091	.087	.083	.077	.071	.063	.046	.042
31	.411	.361	.292	.270	.230	.220	.216	.202	.149	.109	.103	.099	.095	.091	.087	.081	.075	.067	.048	.044
32	.423	.373	.300	.276	.234	.224	.220	.212	.159	.117	.107	.103	.099	.095	.091	.085	.079	.071	.050	.046
33	.435	.385	.308	.282	.238	.228	.224	.218	.167	.129	.113	.107	.103	.099	.095	.089	.083	.075	.052	.048
34	.448	.397	.317	.288	.242	.232	.228	.222	.173	.139	.125	.111	.103	.099	.093	.087	.079	.054	.050	
35	.460	.409	.327	.294	.246	.236	.232	.226	.175	.149	.135	.121	.111	.107	.103	.097	.091	.083	.056	.052
36	.472	.421	.337	.302	.250	.240	.236	.230	.177	.153	.147	.131	.119	.111	.107	.103	.095	.087	.058	.054
37	.484	.433	.347	.310	.256	.244	.240	.234	.179	.157	.151	.145	.127	.119	.111	.107	.101	.091	.060	.056
38	.496	.446	.357	.319	.262	.248	.244	.238	.181	.161	.155	.149	.141	.127	.119	.111	.105	.097	.063	.058
39	.506	.460	.357	.327	.268	.254	.248	.242	.183	.165	.159	.153	.145	.141	.127	.119	.109	.103	.065	.060
40	.516	.470	.381	.335	.274	.260	.254	.246	.185	.169	.163	.157	.149	.145	.141	.127	.117	.107	.069	.063

TOTAL OBSERVATIONS 496

TABLE 1. 2.b. P(W < W\*) I LAUNCH OPPORTUNITIES IN J PERIODS (W\* = 30 M/SEC).  
BASED ON MAXIMUM WIND SPEEDS IN THE 10-15 KM LAYER OVER CAPE KENNEDY, FLORIDA.  
PERIOD OF RECORD JANUARY 1956 - DECEMBER 1963.

CAPE KENNEDY, FLORIDA JANUARY  
SPEEDS LESS THAN 035 MPS

PC ( I CONSECUTIVE SUCCESSES IN J PERIODS )

J	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
1	.125																			
2	.163	.087																		
3	.194	.113	.060																	
4	.222	.141	.079	.044																
5	.244	.165	.099	.054	.036															
6	.266	.185	.121	.067	.046	.028														
7	.288	.202	.137	.081	.058	.034	.024													
8	.308	.218	.153	.095	.073	.042	.028	.022												
9	.329	.234	.167	.105	.087	.052	.032	.026	.020											
10	.345	.250	.181	.115	.101	.063	.038	.030	.022	.020										
11	.361	.266	.196	.123	.111	.073	.044	.036	.024	.022	.020									
12	.375	.280	.210	.131	.121	.083	.050	.042	.028	.024	.022	.020								
13	.387	.294	.222	.139	.129	.091	.056	.048	.032	.028	.024	.022	.020							
14	.399	.306	.234	.147	.137	.099	.063	.054	.036	.032	.028	.024	.022	.020						
15	.411	.317	.246	.155	.145	.107	.069	.060	.040	.036	.032	.028	.024	.022	.020					
16	.423	.327	.258	.163	.153	.115	.075	.067	.044	.040	.036	.032	.028	.024	.022	.020				
17	.435	.337	.270	.171	.161	.123	.081	.073	.048	.044	.040	.036	.032	.028	.024	.022	.018			
18	.446	.347	.282	.179	.169	.131	.087	.079	.052	.048	.044	.040	.036	.032	.028	.024	.020	.016		
19	.456	.355	.294	.188	.177	.139	.093	.085	.056	.052	.048	.044	.040	.036	.032	.028	.022	.018	.014	
20	.466	.363	.304	.196	.185	.147	.099	.091	.060	.056	.052	.048	.044	.040	.036	.032	.026	.020	.016	.012
21	.476	.371	.313	.202	.194	.155	.105	.097	.065	.060	.056	.052	.048	.044	.040	.036	.030	.022	.018	.014
22	.488	.381	.321	.208	.200	.163	.111	.103	.069	.065	.060	.056	.052	.048	.044	.040	.034	.024	.020	.016
23	.500	.393	.331	.212	.206	.169	.117	.109	.073	.069	.065	.060	.056	.052	.048	.044	.038	.026	.022	.018
24	.512	.405	.343	.216	.212	.175	.121	.115	.077	.073	.069	.065	.060	.056	.052	.048	.042	.028	.024	.020
25	.526	.417	.355	.220	.216	.181	.125	.119	.081	.077	.073	.069	.065	.060	.056	.052	.046	.030	.026	.022
26	.540	.431	.367	.224	.220	.188	.129	.123	.085	.081	.077	.073	.069	.065	.060	.056	.050	.032	.028	.024
27	.554	.446	.381	.228	.224	.194	.133	.127	.089	.085	.081	.077	.073	.069	.065	.060	.054	.034	.030	.026
28	.567	.460	.395	.234	.228	.200	.137	.131	.093	.089	.085	.081	.077	.073	.069	.065	.058	.036	.032	.028
29	.577	.474	.409	.240	.234	.206	.141	.135	.097	.093	.089	.085	.081	.077	.073	.069	.063	.038	.034	.030
30	.587	.488	.423	.246	.240	.212	.145	.139	.101	.097	.093	.089	.085	.081	.077	.073	.067	.040	.036	.032
31	.597	.502	.438	.252	.246	.218	.149	.143	.105	.101	.097	.093	.089	.085	.081	.077	.071	.042	.038	.034
32	.607	.514	.452	.258	.252	.224	.153	.147	.109	.105	.101	.097	.093	.089	.085	.081	.075	.044	.040	.036
33	.617	.526	.466	.264	.258	.228	.157	.151	.113	.109	.105	.101	.097	.093	.089	.085	.079	.046	.042	.038
34	.627	.538	.480	.270	.264	.232	.161	.155	.117	.113	.109	.105	.101	.097	.093	.089	.083	.048	.044	.040
35	.637	.550	.494	.276	.270	.236	.165	.159	.121	.117	.113	.109	.105	.101	.097	.093	.087	.050	.046	.042
36	.647	.563	.508	.282	.276	.240	.169	.163	.125	.121	.117	.113	.109	.105	.101	.097	.091	.052	.048	.044
37	.657	.575	.522	.288	.282	.244	.173	.167	.129	.125	.121	.117	.113	.109	.105	.101	.095	.054	.050	.046
38	.667	.587	.536	.294	.288	.248	.177	.171	.133	.129	.125	.121	.117	.113	.109	.105	.099	.056	.052	.048
39	.677	.599	.550	.300	.294	.252	.181	.175	.137	.133	.129	.125	.121	.117	.113	.109	.103	.058	.054	.050
40	.688	.611	.565	.306	.300	.256	.185	.179	.141	.137	.133	.129	.125	.121	.117	.113	.107	.060	.056	.052

TOTAL OBSERVATIONS 496

TABLE 1. 3.2. P(W < W\*) I CONSECUTIVE LAUNCH OPPORTUNITIES IN J PERIODS (W\* = 35 M/SEC).  
BASED ON MAXIMUM WIND SPEEDS IN THE 10-15 KM LAYER OVER CAPE KENNEDY, FLORIDA.  
PERIOD OF RECORD JANUARY 1956 - DECEMBER 1963.

CAPE KENNEDY, FLORIDA JANUARY

SPEEDS LESS THAN 35 MPS

P ( I SUCCESSES IN J PERIODS )

	I																			
J	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
1	.125																			
2	.163	.087																		
3	.194	.123	.060																	
4	.222	.149	.095	.044																
5	.244	.175	.117	.073	.036															
6	.266	.192	.143	.091	.065	.028														
7	.288	.208	.157	.117	.079	.054	.024													
8	.308	.224	.171	.131	.103	.065	.050	.022												
9	.329	.240	.185	.145	.113	.089	.056	.048	.020											
10	.345	.260	.200	.159	.123	.097	.081	.052	.044	.020										
11	.361	.274	.218	.173	.133	.105	.091	.075	.048	.042	.020									
12	.375	.288	.236	.188	.143	.113	.101	.085	.069	.046	.040	.020								
13	.387	.302	.252	.204	.153	.121	.109	.097	.077	.067	.044	.038	.020							
14	.399	.313	.270	.218	.167	.129	.117	.105	.089	.075	.065	.042	.036	.020						
15	.411	.323	.284	.236	.179	.139	.125	.113	.097	.087	.073	.063	.040	.034	.020					
16	.423	.333	.298	.248	.198	.149	.133	.121	.105	.095	.085	.069	.060	.036	.034	.020				
17	.435	.343	.310	.262	.212	.163	.141	.129	.113	.103	.093	.079	.067	.054	.036	.034	.018			
18	.446	.353	.323	.272	.230	.173	.153	.137	.121	.111	.101	.087	.075	.060	.052	.036	.034	.016		
19	.456	.361	.335	.282	.242	.190	.163	.147	.129	.119	.109	.095	.083	.067	.058	.050	.036	.034	.014	
20	.466	.369	.343	.294	.254	.198	.179	.159	.137	.127	.117	.103	.091	.073	.065	.054	.050	.036	.034	.012
21	.476	.379	.351	.304	.266	.206	.185	.177	.149	.135	.125	.111	.099	.079	.071	.058	.054	.048	.036	.034
22	.488	.389	.361	.313	.278	.214	.192	.185	.167	.147	.133	.119	.107	.085	.077	.063	.058	.054	.046	.036
23	.500	.401	.371	.323	.288	.222	.198	.192	.179	.163	.145	.127	.115	.091	.083	.067	.063	.058	.052	.044
24	.512	.413	.383	.333	.298	.228	.204	.198	.185	.179	.159	.139	.123	.097	.089	.071	.067	.063	.056	.050
25	.526	.425	.395	.343	.306	.236	.210	.202	.192	.185	.179	.151	.135	.103	.095	.075	.071	.067	.060	.054
26	.540	.440	.407	.353	.315	.242	.218	.206	.198	.192	.175	.145	.113	.101	.079	.075	.071	.065	.058	
27	.554	.454	.421	.363	.323	.248	.226	.210	.202	.198	.192	.181	.173	.119	.111	.083	.079	.075	.069	.063
28	.567	.468	.435	.375	.331	.254	.234	.214	.206	.202	.198	.188	.179	.147	.117	.091	.083	.079	.073	.067
29	.577	.482	.450	.387	.343	.260	.242	.218	.210	.206	.202	.194	.185	.153	.145	.095	.091	.083	.077	.071
30	.587	.494	.466	.399	.355	.268	.250	.222	.214	.210	.206	.198	.192	.157	.153	.121	.095	.091	.081	.075
31	.597	.506	.478	.415	.367	.276	.260	.226	.218	.214	.210	.202	.196	.161	.157	.131	.119	.095	.089	.079
32	.607	.518	.490	.427	.383	.284	.270	.230	.222	.218	.214	.206	.200	.165	.161	.135	.131	.117	.095	.087
33	.617	.530	.502	.440	.397	.294	.280	.234	.226	.222	.218	.210	.204	.169	.165	.139	.135	.131	.115	.093
34	.627	.542	.514	.452	.411	.304	.290	.238	.230	.226	.222	.214	.208	.171	.169	.143	.139	.135	.131	.113
35	.637	.554	.526	.464	.425	.315	.298	.246	.234	.230	.226	.218	.212	.173	.171	.147	.143	.139	.135	.131
36	.647	.567	.538	.476	.440	.327	.306	.254	.238	.234	.230	.222	.216	.175	.173	.151	.147	.143	.139	.135
37	.657	.579	.550	.488	.454	.339	.317	.262	.242	.238	.234	.226	.220	.177	.175	.155	.151	.147	.143	.139
38	.667	.591	.563	.500	.466	.353	.327	.272	.246	.242	.238	.230	.224	.179	.177	.159	.155	.151	.147	.143
39	.677	.603	.575	.512	.478	.363	.341	.282	.252	.246	.242	.234	.228	.181	.179	.163	.159	.155	.151	.147
40	.688	.613	.587	.522	.492	.373	.351	.296	.258	.252	.246	.238	.232	.183	.181	.167	.163	.159	.155	.151

TOTAL OBSERVATIONS 496

TABLE 1. 3, b. P(W < W\*) I LAUNCH OPPORTUNITIES IN J PERIODS (W\* = 35 M/SEC).  
 BASED ON MAXIMUM WIND SPEEDS IN THE 10-15 KM LAYER OVER CAPE KENNEDY, FLORIDA.  
 PERIOD OF RECORD JANUARY 1956 - DECEMBER 1963.

CAPE KENNEDY, FLORIDA JANUARY  
SPEEDS LESS THAN 040 MPS

PC ( I CONSECUTIVE SUCCESSES IN J PERIODS )

	I																			
J	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
1	.210																			
2	.270	.155																		
3	.319	.190	.127																	
4	.361	.224	.151	.109																
5	.399	.254	.175	.129	.093															
6	.431	.282	.198	.149	.111	.079														
7	.464	.306	.218	.167	.129	.095	.069													
8	.490	.329	.236	.185	.147	.111	.081	.063												
9	.514	.349	.254	.202	.165	.127	.093	.073	.056											
10	.532	.367	.272	.218	.183	.143	.105	.083	.067	.050										
11	.548	.381	.290	.234	.200	.159	.117	.093	.077	.056	.048									
12	.565	.393	.306	.250	.216	.175	.129	.103	.087	.063	.052	.048								
13	.581	.405	.321	.264	.232	.190	.141	.113	.097	.069	.056	.052	.048							
14	.595	.417	.333	.278	.246	.204	.153	.123	.107	.075	.060	.056	.052	.048						
15	.607	.429	.345	.290	.260	.216	.163	.133	.117	.081	.065	.060	.056	.052	.048					
16	.619	.442	.355	.302	.274	.228	.173	.143	.127	.087	.069	.065	.060	.056	.052	.048				
17	.631	.454	.365	.315	.286	.240	.183	.151	.137	.093	.073	.069	.065	.060	.056	.052	.048			
18	.643	.464	.375	.325	.298	.252	.194	.159	.147	.099	.077	.073	.069	.065	.060	.056	.052	.048		
19	.655	.474	.383	.335	.310	.264	.204	.167	.155	.105	.081	.077	.073	.069	.065	.060	.056	.052	.048	
20	.669	.484	.391	.343	.321	.276	.214	.175	.163	.111	.085	.081	.077	.073	.069	.065	.060	.056	.052	.048
21	.683	.494	.399	.351	.329	.288	.224	.183	.171	.117	.089	.085	.081	.077	.073	.069	.065	.060	.056	.052
22	.696	.504	.407	.359	.337	.296	.234	.192	.179	.123	.093	.089	.085	.081	.077	.073	.069	.065	.060	.056
23	.706	.516	.417	.367	.345	.304	.242	.200	.188	.129	.097	.093	.089	.085	.081	.077	.073	.069	.065	.060
24	.716	.528	.429	.375	.353	.313	.248	.206	.196	.135	.101	.097	.093	.089	.085	.081	.077	.073	.069	.065
25	.728	.540	.442	.383	.361	.321	.254	.212	.202	.141	.105	.101	.097	.093	.089	.085	.081	.077	.073	.069
26	.740	.554	.454	.391	.369	.329	.260	.216	.208	.147	.109	.105	.101	.097	.093	.089	.085	.081	.077	.073
27	.752	.569	.468	.399	.377	.337	.266	.220	.214	.153	.113	.109	.105	.101	.097	.093	.089	.085	.081	.077
28	.762	.583	.482	.409	.385	.345	.272	.224	.218	.159	.117	.113	.109	.105	.101	.097	.093	.089	.085	.081
29	.770	.597	.496	.419	.395	.353	.278	.228	.222	.165	.121	.117	.113	.109	.105	.101	.097	.093	.089	.085
30	.778	.611	.510	.431	.405	.363	.284	.232	.226	.171	.125	.121	.117	.113	.109	.105	.101	.097	.093	.089
31	.786	.623	.524	.444	.417	.373	.290	.236	.230	.177	.129	.125	.121	.117	.113	.109	.105	.101	.097	.093
32	.794	.635	.536	.456	.429	.385	.296	.240	.234	.183	.133	.129	.125	.121	.117	.113	.109	.105	.101	.097
33	.800	.647	.548	.468	.442	.397	.302	.244	.238	.190	.137	.133	.129	.125	.121	.117	.113	.109	.105	.101
34	.806	.659	.560	.480	.454	.409	.308	.248	.242	.196	.141	.137	.133	.129	.125	.121	.117	.113	.109	.105
35	.813	.671	.573	.492	.466	.421	.315	.252	.246	.202	.145	.141	.137	.133	.129	.125	.121	.117	.113	.109
36	.817	.683	.585	.504	.478	.433	.321	.256	.250	.208	.149	.145	.141	.137	.133	.129	.125	.121	.117	.113
37	.821	.696	.597	.516	.490	.446	.327	.260	.254	.214	.153	.149	.145	.141	.137	.133	.129	.125	.121	.117
38	.825	.708	.609	.528	.502	.458	.333	.264	.258	.220	.157	.153	.149	.145	.141	.137	.133	.129	.125	.121
39	.829	.720	.621	.540	.514	.470	.339	.268	.262	.226	.161	.157	.153	.149	.145	.141	.137	.133	.129	.125
40	.833	.730	.633	.550	.524	.482	.345	.272	.266	.232	.165	.161	.157	.153	.149	.145	.141	.137	.133	.129

TOTAL OBSERVATIONS 496

TABLE 1. 4.a. P(W < W\*) I CONSECUTIVE LAUNCH OPPORTUNITIES IN J PERIODS (W\* = 40 M/SEC).  
BASED ON MAXIMUM WIND SPEEDS IN THE 10-15 KM LAYER OVER CAPE KENNEDY, FLORIDA.  
PERIOD OF RECORD JANUARY 1956 - DECEMBER 1963.

CAPE KENNEDY, FLORIDA JANUARY  
SPEEDS LESS THAN 40 MPS

P ( I SUCCESSES IN J PERIODS )

	I																			
J	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
1	.210																			
2	.270	.155																		
3	.319	.202	.127																	
4	.361	.238	.165	.109																
5	.399	.268	.202	.139	.093															
6	.431	.298	.228	.171	.123	.079														
7	.464	.321	.256	.196	.151	.109	.069													
8	.490	.347	.278	.218	.177	.133	.097	.063												
9	.514	.369	.306	.236	.200	.155	.119	.089	.056											
10	.532	.389	.333	.258	.218	.173	.139	.107	.085	.050										
11	.548	.403	.357	.282	.240	.190	.157	.125	.101	.077	.048									
12	.565	.415	.373	.304	.264	.212	.171	.145	.117	.091	.071	.048								
13	.581	.427	.387	.321	.282	.238	.192	.159	.137	.107	.081	.069	.048							
14	.595	.442	.399	.337	.294	.258	.216	.179	.151	.129	.091	.079	.067	.048						
15	.607	.456	.413	.349	.308	.272	.234	.200	.173	.141	.111	.089	.077	.065	.048					
16	.619	.468	.427	.361	.321	.288	.248	.218	.192	.163	.123	.107	.085	.075	.063	.048				
17	.631	.478	.440	.373	.333	.302	.266	.230	.212	.177	.143	.121	.101	.083	.073	.060	.048			
18	.643	.488	.450	.385	.343	.317	.282	.246	.224	.196	.153	.143	.117	.095	.081	.071	.058	.048		
19	.655	.498	.460	.395	.353	.329	.298	.260	.238	.208	.167	.151	.143	.109	.091	.079	.069	.056	.048	
20	.669	.508	.470	.403	.363	.339	.315	.274	.252	.220	.177	.161	.151	.137	.105	.087	.077	.067	.054	.048
21	.683	.518	.480	.411	.373	.349	.327	.290	.266	.234	.188	.169	.159	.147	.133	.099	.085	.075	.063	.054
22	.696	.532	.490	.419	.383	.359	.339	.302	.282	.250	.198	.177	.167	.153	.145	.127	.095	.083	.069	.063
23	.706	.546	.504	.427	.393	.369	.351	.315	.294	.266	.212	.185	.175	.159	.151	.141	.121	.093	.075	.069
24	.716	.560	.516	.440	.403	.379	.361	.327	.306	.278	.230	.194	.183	.165	.157	.147	.135	.119	.085	.073
25	.728	.575	.528	.450	.415	.389	.371	.337	.319	.288	.244	.206	.192	.171	.163	.153	.139	.135	.111	.081
26	.740	.591	.540	.462	.425	.401	.381	.345	.331	.298	.260	.216	.202	.177	.169	.159	.143	.139	.129	.107
27	.752	.607	.554	.474	.435	.411	.393	.355	.339	.310	.276	.226	.212	.183	.175	.165	.147	.143	.135	.125
28	.762	.623	.569	.488	.446	.423	.403	.367	.349	.319	.294	.236	.222	.190	.181	.171	.151	.147	.141	.129
29	.770	.639	.583	.502	.458	.431	.417	.377	.361	.329	.306	.252	.230	.196	.188	.177	.155	.151	.147	.133
30	.778	.653	.597	.516	.470	.442	.425	.393	.371	.341	.319	.262	.244	.200	.194	.183	.159	.155	.151	.134
31	.786	.667	.609	.530	.482	.452	.433	.403	.387	.351	.333	.274	.252	.210	.198	.190	.163	.159	.155	.145
32	.794	.679	.623	.544	.494	.462	.442	.413	.397	.367	.343	.290	.262	.216	.206	.194	.167	.163	.159	.149
33	.800	.692	.635	.560	.506	.472	.450	.423	.407	.379	.357	.302	.276	.222	.212	.200	.169	.167	.163	.153
34	.806	.704	.647	.573	.522	.482	.458	.431	.419	.391	.369	.317	.286	.232	.218	.206	.171	.169	.167	.157
35	.813	.716	.659	.585	.534	.496	.468	.440	.427	.407	.381	.329	.298	.242	.226	.210	.175	.171	.169	.161
36	.817	.730	.671	.597	.544	.508	.482	.450	.435	.417	.399	.341	.308	.254	.232	.216	.179	.173	.171	.165
37	.821	.744	.683	.609	.554	.518	.494	.462	.446	.427	.409	.361	.319	.266	.238	.220	.185	.175	.173	.169
38	.825	.758	.696	.621	.565	.528	.504	.474	.458	.440	.419	.371	.339	.278	.244	.224	.190	.179	.175	.173
39	.829	.768	.710	.633	.575	.538	.514	.484	.470	.454	.431	.381	.349	.300	.250	.228	.194	.181	.179	.175
40	.833	.778	.720	.647	.585	.548	.524	.494	.480	.466	.448	.393	.359	.315	.264	.232	.198	.183	.181	.179

TOTAL OBSERVATIONS 496

TABLE 1.4b. P(W < W\*) I LAUNCH OPPORTUNITIES IN J PERIODS (W\* = 40 M/SEC).  
BASED ON MAXIMUM WIND SPEEDS IN THE 10-15 KM LAYER OVER CAPE KENNEDY, FLORIDA.  
PERIOD OF RECORD JANUARY 1956 - DECEMBER 1963.



CAPE KENNEDY, FLORIDA JANUARY  
SPEEDS LESS THAN 045 MPS

PC ( I CONSECUTIVE SUCCESSES IN J PERIODS )

	I																			
J	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
1	.343																			
2	.427	.262																		
3	.490	.313	.218																	
4	.542	.361	.252	.192																
5	.583	.399	.294	.222	.165															
6	.615	.431	.317	.250	.192	.143														
7	.643	.458	.341	.279	.216	.165	.127													
8	.665	.482	.361	.306	.240	.188	.147	.113												
9	.685	.502	.379	.329	.264	.210	.167	.129	.103											
10	.704	.527	.395	.349	.286	.232	.188	.145	.119	.093										
11	.718	.536	.409	.367	.304	.252	.208	.161	.135	.107	.085									
12	.732	.550	.421	.383	.321	.272	.226	.177	.151	.121	.097	.079								
13	.744	.565	.431	.397	.335	.290	.244	.192	.167	.135	.109	.089	.075							
14	.756	.579	.442	.409	.347	.306	.262	.206	.181	.149	.121	.099	.083	.073						
15	.768	.593	.452	.419	.359	.321	.278	.220	.196	.161	.133	.109	.091	.079	.073					
16	.780	.607	.462	.429	.371	.333	.292	.234	.210	.173	.143	.119	.099	.085	.079	.073				
17	.792	.621	.472	.440	.381	.345	.304	.246	.224	.185	.153	.127	.107	.091	.085	.079	.073			
18	.802	.635	.480	.450	.391	.357	.317	.258	.238	.198	.163	.135	.115	.097	.091	.085	.079	.073		
19	.813	.649	.488	.459	.401	.367	.329	.268	.250	.211	.173	.143	.123	.103	.097	.091	.085	.079	.071	
20	.821	.663	.496	.466	.409	.377	.341	.278	.262	.222	.183	.151	.131	.109	.103	.097	.091	.085	.077	.069
21	.827	.677	.504	.474	.417	.385	.351	.288	.272	.232	.194	.159	.139	.115	.119	.103	.097	.091	.083	.075
22	.833	.692	.514	.482	.425	.393	.359	.298	.282	.242	.204	.167	.147	.121	.115	.109	.103	.097	.089	.081
23	.837	.704	.524	.492	.435	.401	.367	.306	.292	.250	.214	.175	.155	.127	.121	.115	.109	.103	.095	.087
24	.839	.714	.534	.502	.446	.409	.375	.315	.300	.258	.224	.183	.163	.133	.127	.121	.115	.109	.101	.093
25	.841	.724	.544	.512	.456	.419	.383	.323	.308	.266	.232	.192	.171	.139	.133	.127	.121	.115	.107	.099
26	.843	.736	.554	.522	.466	.429	.393	.331	.317	.270	.240	.200	.179	.145	.139	.133	.127	.121	.113	.105
27	.845	.748	.567	.532	.476	.440	.403	.341	.325	.278	.248	.208	.188	.151	.145	.139	.133	.127	.119	.111
28	.847	.760	.579	.544	.488	.450	.413	.351	.333	.282	.256	.216	.196	.157	.151	.145	.139	.133	.125	.117
29	.849	.770	.591	.556	.498	.460	.423	.361	.341	.288	.264	.224	.204	.163	.157	.151	.145	.139	.131	.123
30	.851	.778	.603	.569	.512	.474	.433	.371	.349	.296	.272	.232	.212	.167	.163	.157	.151	.145	.137	.129
31	.853	.784	.615	.581	.526	.488	.449	.381	.357	.300	.280	.240	.220	.175	.169	.163	.157	.151	.143	.135
32	.855	.790	.625	.593	.540	.504	.464	.393	.365	.306	.288	.248	.228	.181	.175	.169	.163	.157	.149	.141
33	.857	.795	.635	.603	.556	.518	.480	.405	.373	.313	.296	.256	.236	.188	.181	.175	.169	.163	.155	.147
34	.859	.802	.645	.613	.567	.532	.494	.417	.381	.319	.304	.264	.244	.194	.188	.181	.175	.169	.161	.153
35	.861	.808	.655	.623	.570	.544	.508	.429	.389	.325	.313	.272	.252	.200	.194	.188	.181	.175	.167	.159
36	.863	.815	.665	.633	.591	.556	.520	.442	.397	.331	.321	.280	.260	.208	.200	.194	.188	.181	.173	.165
37	.865	.821	.675	.643	.603	.569	.532	.454	.405	.337	.327	.288	.268	.212	.206	.200	.194	.188	.179	.171
38	.867	.827	.685	.653	.615	.581	.544	.466	.413	.343	.333	.296	.276	.218	.212	.206	.200	.194	.185	.177
39	.869	.831	.696	.663	.627	.593	.556	.478	.421	.349	.339	.304	.284	.224	.218	.212	.206	.200	.192	.183
40	.871	.839	.706	.673	.639	.605	.569	.490	.429	.355	.345	.313	.292	.230	.224	.218	.212	.206	.198	.190

TOTAL OBSERVATIONS 496

TABLE 1. S. S. P(W = W\*) I CONSECUTIVE LAUNCH OPPORTUNITIES IN J PERIODS (W\* = 45 M/SEC).  
BASED ON MAXIMUM WIND SPEEDS IN THE 10-15 KM LAYER OVER CAPE KENNEDY, FLORIDA.  
PERIOD OF RECORD JANUARY 1956 - DECEMBER 1963.

CAPE KENNEDY, FLORIDA JANUARY  
 SPEEDS LESS THAN 045 MPS

( I SUCCESSSES IN J PERIODS )

	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
1	.343																			
2	.427	.262																		
3	.490	.333	.218																	
4	.542	.383	.280	.192																
5	.583	.427	.327	.254	.165															
6	.615	.462	.367	.300	.226	.143														
7	.643	.492	.425	.335	.266	.204	.127													
8	.665	.524	.433	.373	.290	.252	.183	.113												
9	.685	.548	.444	.401	.325	.274	.238	.163	.103											
10	.704	.571	.490	.427	.351	.308	.256	.220	.151	.093										
11	.718	.589	.512	.454	.377	.333	.298	.238	.206	.141	.085									
12	.732	.605	.532	.474	.405	.357	.306	.270	.224	.194	.133	.079								
13	.744	.621	.554	.488	.427	.383	.329	.286	.260	.210	.185	.123	.075							
14	.756	.631	.579	.504	.446	.399	.355	.306	.278	.248	.198	.177	.113	.073						
15	.758	.641	.597	.526	.462	.413	.369	.333	.298	.264	.234	.190	.167	.105	.073					
16	.780	.651	.611	.542	.484	.427	.383	.345	.325	.286	.250	.224	.181	.155	.101	.073				
17	.792	.661	.621	.563	.498	.448	.397	.357	.335	.313	.276	.240	.212	.169	.149	.097	.073			
18	.802	.673	.631	.577	.516	.464	.415	.369	.345	.325	.304	.266	.230	.194	.165	.143	.093	.073		
19	.813	.685	.639	.591	.532	.482	.429	.385	.355	.337	.315	.296	.256	.210	.188	.161	.137	.089	.071	
20	.821	.700	.649	.601	.550	.502	.442	.399	.369	.347	.329	.306	.286	.236	.204	.181	.155	.131	.085	.069
21	.827	.714	.661	.613	.565	.520	.458	.409	.385	.350	.339	.323	.296	.256	.230	.196	.173	.151	.125	.081
22	.833	.724	.677	.625	.579	.536	.478	.419	.397	.373	.351	.333	.315	.278	.258	.220	.188	.167	.147	.119
23	.837	.734	.690	.639	.595	.554	.496	.431	.409	.383	.365	.345	.327	.298	.270	.246	.210	.181	.161	.143
24	.839	.744	.702	.651	.611	.573	.514	.442	.423	.393	.377	.357	.341	.313	.298	.258	.236	.202	.175	.155
25	.841	.754	.712	.665	.625	.593	.536	.452	.433	.407	.387	.367	.353	.331	.304	.274	.250	.224	.194	.167
26	.843	.764	.724	.675	.643	.607	.563	.464	.444	.417	.401	.377	.363	.347	.325	.292	.264	.238	.214	.181
27	.845	.774	.736	.685	.655	.627	.585	.480	.456	.427	.411	.391	.373	.350	.341	.315	.284	.268	.230	.198
28	.847	.782	.750	.704	.677	.639	.611	.498	.470	.447	.419	.401	.387	.369	.355	.331	.308	.266	.240	.216
29	.849	.790	.760	.718	.690	.651	.631	.524	.482	.454	.429	.411	.395	.383	.365	.349	.323	.290	.259	.228
30	.851	.796	.770	.718	.692	.661	.645	.552	.500	.464	.442	.421	.403	.391	.379	.361	.343	.302	.282	.248
31	.853	.802	.776	.730	.704	.671	.655	.573	.526	.482	.452	.433	.413	.399	.387	.375	.357	.321	.296	.274
32	.855	.808	.782	.738	.716	.683	.665	.591	.542	.506	.466	.444	.425	.409	.395	.383	.371	.335	.315	.290
33	.857	.815	.788	.744	.724	.696	.677	.607	.558	.522	.486	.459	.435	.421	.403	.391	.379	.347	.329	.308
34	.859	.821	.794	.754	.732	.704	.690	.623	.573	.538	.500	.478	.450	.431	.413	.399	.387	.359	.341	.323
35	.861	.827	.800	.762	.740	.712	.698	.641	.585	.552	.518	.492	.468	.446	.421	.409	.395	.369	.349	.335
36	.863	.833	.806	.770	.748	.727	.706	.655	.599	.565	.530	.512	.484	.462	.433	.417	.405	.377	.359	.343
37	.865	.837	.815	.778	.756	.723	.714	.667	.613	.579	.538	.524	.506	.478	.466	.429	.413	.387	.367	.353
38	.867	.841	.821	.786	.766	.736	.727	.677	.627	.591	.550	.534	.516	.502	.458	.442	.425	.395	.377	.361
39	.869	.845	.827	.794	.777	.746	.737	.685	.643	.603	.563	.544	.526	.512	.468	.452	.438	.407	.385	.371
40	.871	.849	.833	.802	.778	.752	.740	.694	.655	.610	.575	.554	.536	.522	.468	.476	.448	.421	.395	.379

TOTAL OBSERVATIONS 436

TABLE 1.5.b. (W W\*) [ LAUNCH OPPORTUNITIES IN J PERIODS (W\* = 45 M/SEC).  
 BASED ON MAXIMUM WIND SPEEDS IN THE 10-15 KM LAYER OVER CAPE KENNEDY, FLORIDA.  
 PERIOD OF RECORD JANUARY 1956 - DECEMBER 1963.

CAPE KENNEDY, FLORIDA JANUARY  
SPEEDS LESS THAN 050 MPS

PC ( I CONSECUTIVE SUCCESSES IN J PERIODS )

	I																			
J	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
1	.496																			
2	.585	.405																		
3	.653	.466	.347																	
4	.698	.528	.393	.306																
5	.736	.577	.440	.339	.278															
6	.764	.611	.484	.371	.304	.256														
7	.790	.637	.518	.401	.331	.282	.234													
8	.813	.653	.540	.431	.355	.308	.256	.218												
9	.833	.667	.563	.460	.379	.333	.278	.239	.202											
10	.847	.681	.575	.482	.401	.357	.298	.258	.216	.192										
11	.859	.696	.585	.504	.423	.379	.319	.276	.230	.204	.183									
12	.867	.706	.595	.518	.442	.401	.337	.294	.244	.216	.196	.175								
13	.875	.716	.605	.530	.460	.423	.355	.310	.258	.228	.208	.188	.167							
14	.883	.726	.615	.542	.472	.442	.373	.327	.270	.240	.220	.200	.177	.161						
15	.889	.736	.625	.554	.482	.460	.391	.343	.282	.250	.234	.212	.188	.171	.155					
16	.891	.746	.635	.567	.494	.472	.407	.359	.294	.260	.242	.224	.198	.181	.165	.151				
17	.893	.756	.645	.579	.504	.484	.423	.373	.306	.270	.252	.234	.208	.192	.175	.159	.149			
18	.895	.764	.655	.591	.514	.496	.435	.381	.319	.280	.262	.244	.216	.202	.185	.167	.157	.147		
19	.897	.770	.665	.603	.524	.506	.446	.407	.331	.290	.272	.254	.224	.210	.196	.175	.165	.155	.145	
20	.899	.776	.675	.613	.534	.516	.456	.419	.343	.300	.282	.264	.232	.214	.204	.183	.17	.163	.153	.141
21	.901	.782	.685	.623	.544	.526	.466	.429	.355	.310	.292	.274	.240	.226	.212	.190	.181	.171	.161	.149
22	.903	.788	.696	.631	.552	.536	.476	.440	.365	.321	.302	.284	.248	.234	.220	.196	.188	.179	.169	.157
23	.903	.794	.704	.641	.560	.546	.486	.450	.375	.331	.313	.294	.256	.242	.228	.202	.194	.185	.177	.165
24	.903	.800	.710	.649	.569	.554	.494	.460	.383	.339	.323	.304	.264	.250	.236	.208	.200	.192	.183	.173
25	.905	.804	.716	.657	.577	.565	.508	.470	.391	.345	.333	.315	.272	.259	.244	.214	.206	.198	.190	.179
26	.907	.810	.722	.665	.585	.573	.522	.482	.399	.351	.339	.325	.280	.266	.252	.220	.212	.204	.196	.185
27	.909	.817	.730	.673	.593	.581	.536	.496	.409	.357	.345	.333	.288	.274	.260	.226	.218	.210	.202	.192
28	.911	.823	.738	.683	.601	.589	.546	.510	.419	.365	.351	.339	.294	.282	.268	.232	.224	.216	.208	.198
29	.913	.829	.746	.694	.611	.597	.556	.524	.429	.373	.359	.345	.300	.288	.276	.238	.230	.222	.214	.204
30	.915	.833	.754	.702	.621	.607	.567	.536	.440	.381	.367	.353	.306	.294	.282	.244	.236	.228	.220	.210
31	.917	.835	.762	.710	.629	.617	.579	.548	.450	.389	.375	.361	.315	.300	.288	.249	.242	.234	.226	.216
32	.919	.837	.770	.718	.637	.625	.591	.563	.460	.397	.383	.369	.323	.308	.294	.252	.246	.240	.232	.222
33	.921	.839	.775	.726	.645	.633	.601	.577	.470	.405	.391	.377	.331	.317	.302	.256	.250	.244	.238	.228
34	.923	.841	.786	.734	.653	.641	.609	.589	.480	.413	.399	.385	.339	.325	.310	.262	.254	.248	.242	.234
35	.925	.843	.794	.742	.661	.649	.617	.601	.488	.421	.407	.393	.347	.333	.319	.268	.260	.252	.246	.238
36	.927	.845	.802	.750	.669	.657	.625	.611	.496	.427	.415	.401	.355	.341	.327	.274	.266	.258	.250	.242
37	.929	.847	.810	.758	.677	.665	.633	.621	.504	.433	.421	.409	.363	.349	.335	.280	.272	.264	.254	.246
38	.931	.849	.819	.766	.685	.673	.641	.631	.512	.440	.427	.415	.371	.357	.343	.286	.278	.270	.258	.250
39	.933	.851	.825	.774	.694	.681	.649	.639	.520	.446	.433	.421	.379	.365	.351	.292	.284	.276	.262	.254
40	.935	.853	.831	.782	.702	.690	.657	.647	.528	.452	.440	.427	.387	.373	.359	.298	.290	.282	.266	.258

TOTAL OBSERVATIONS 496

TABLE 1. G. a. P(W < W\*) I CONSECUTIVE LAUNCH OPPORTUNITIES IN J PERIODS (W\* = 50 M/SEC).  
BASED ON MAXIMUM WIND SPEEDS IN THE 10-15 KM LAYER OVER CAPE KENNEDY, FLORIDA.  
PERIOD OF RECORD JANUARY 1956 - DECEMBER 1963.

CAPF KENNEDY, FLORIDA JANUARY  
SPEEDS LESS THAN 050 MPS

P ( I SUCCESSES IN J PERIODS )

	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
1	.496																			
2	.585	.405																		
3	.653	.488	.347																	
4	.698	.560	.427	.306																
5	.736	.599	.504	.379	.278															
6	.764	.631	.540	.464	.341	.256														
7	.790	.649	.577	.506	.423	.313	.234													
8	.813	.669	.591	.550	.468	.399	.290	.218												
9	.833	.690	.605	.565	.516	.450	.369	.259	.202											
10	.847	.714	.619	.583	.530	.498	.425	.343	.236	.192										
11	.859	.732	.641	.593	.548	.510	.480	.403	.315	.220	.183									
12	.867	.754	.655	.611	.558	.524	.492	.468	.379	.289	.208	.175								
13	.875	.774	.671	.621	.577	.534	.506	.482	.454	.351	.268	.198	.167							
14	.883	.790	.692	.631	.589	.548	.520	.494	.470	.431	.325	.254	.188	.161						
15	.889	.806	.702	.653	.599	.560	.532	.510	.482	.458	.399	.308	.240	.181	.155					
16	.891	.825	.712	.667	.617	.569	.546	.520	.500	.472	.429	.383	.288	.232	.175	.151				
17	.893	.833	.732	.679	.629	.585	.556	.534	.508	.492	.448	.417	.357	.279	.224	.169	.149			
18	.895	.841	.747	.702	.639	.597	.573	.546	.518	.500	.470	.438	.393	.343	.268	.212	.167	.147		
19	.897	.849	.752	.714	.659	.607	.585	.560	.532	.508	.478	.460	.419	.381	.327	.256	.204	.165	.145	
20	.899	.857	.760	.726	.671	.629	.593	.577	.544	.522	.486	.468	.446	.409	.367	.308	.246	.198	.163	.141
21	.901	.863	.768	.736	.685	.641	.613	.585	.563	.534	.500	.476	.454	.438	.401	.349	.290	.238	.194	.161
22	.903	.865	.778	.746	.694	.659	.623	.605	.573	.550	.516	.486	.464	.448	.429	.385	.333	.276	.232	.190
23	.903	.869	.786	.751	.704	.669	.641	.613	.595	.560	.534	.500	.472	.460	.442	.411	.373	.319	.266	.226
24	.903	.869	.796	.766	.714	.681	.651	.629	.607	.579	.550	.514	.484	.466	.456	.429	.397	.359	.308	.256
25	.905	.869	.802	.776	.724	.696	.661	.637	.623	.593	.571	.530	.496	.478	.462	.448	.419	.385	.345	.293
26	.907	.871	.808	.782	.738	.706	.675	.645	.631	.609	.587	.548	.512	.492	.472	.454	.442	.411	.371	.329
27	.909	.873	.817	.789	.748	.716	.688	.657	.639	.617	.603	.565	.530	.508	.488	.462	.450	.435	.399	.357
28	.911	.875	.825	.794	.760	.724	.698	.667	.651	.625	.611	.583	.546	.522	.504	.478	.458	.446	.427	.383
29	.913	.877	.831	.802	.770	.734	.700	.673	.661	.637	.619	.591	.571	.534	.514	.499	.472	.454	.442	.415
30	.915	.879	.837	.806	.784	.744	.714	.679	.667	.649	.629	.599	.583	.554	.522	.512	.492	.466	.450	.435
31	.917	.881	.843	.810	.790	.762	.722	.688	.673	.657	.639	.609	.595	.563	.538	.520	.510	.484	.462	.446
32	.919	.883	.849	.815	.796	.770	.740	.696	.681	.665	.645	.619	.605	.575	.546	.532	.518	.504	.480	.458
33	.921	.885	.853	.821	.802	.779	.750	.712	.698	.675	.651	.625	.615	.583	.560	.540	.528	.512	.502	.476
34	.923	.887	.857	.825	.810	.786	.760	.722	.702	.681	.661	.631	.621	.593	.571	.552	.536	.522	.508	.500
35	.925	.889	.861	.824	.817	.796	.768	.734	.710	.696	.667	.641	.627	.599	.583	.560	.548	.530	.516	.506
36	.927	.891	.865	.833	.821	.804	.780	.742	.722	.704	.681	.647	.637	.605	.589	.573	.556	.540	.524	.514
37	.929	.893	.869	.837	.825	.813	.786	.756	.730	.716	.692	.657	.643	.615	.593	.579	.571	.546	.534	.522
38	.931	.895	.871	.843	.829	.817	.796	.764	.744	.724	.706	.665	.651	.621	.601	.583	.575	.560	.540	.532
39	.933	.897	.873	.847	.835	.821	.800	.776	.754	.736	.716	.677	.659	.629	.607	.589	.579	.567	.554	.538
40	.935	.899	.875	.849	.841	.827	.804	.782	.766	.746	.728	.685	.671	.637	.615	.593	.585	.573	.560	.552

TOTAL OBSERVATIONS 496

TABLE 1. G, b. P(W < W\*) I LAUNCH OPPORTUNITIES IN J PERIODS (W\* = 50 M/SEC).  
BASED ON MAXIMUM WIND SPEEDS IN THE 10-15 KM LAYER OVER CAPE KENNEDY, FLORIDA.  
PERIOD OF RECORD JANUARY 1956 - DECEMBER 1963.

CAPE KENNEDY, FLORIDA JANUARY

SPEEDS LESS THAN 055 MPS

PC ( I CONSECUTIVE SUCCESSSES IN J PERIODS )

	I																			
J	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
1	.649																			
2	.736	.558																		
3	.700	.623	.492																	
4	.831	.688	.538	.446																
5	.863	.730	.585	.484	.411															
6	.885	.746	.631	.520	.442	.385														
7	.901	.796	.665	.556	.470	.411	.363													
8	.913	.819	.694	.591	.498	.435	.389	.343												
9	.923	.839	.718	.615	.526	.460	.413	.365	.325											
10	.931	.855	.738	.635	.554	.484	.438	.385	.345	.308										
11	.935	.867	.756	.653	.575	.508	.462	.405	.363	.329	.290									
12	.938	.877	.772	.667	.591	.532	.486	.425	.381	.347	.308	.274								
13	.940	.885	.784	.681	.605	.548	.510	.446	.399	.365	.325	.292	.258							
14	.942	.893	.794	.694	.617	.560	.534	.466	.417	.383	.341	.308	.276	.242						
15	.944	.899	.804	.706	.629	.571	.550	.486	.435	.401	.357	.325	.292	.256	.230					
16	.946	.905	.813	.716	.641	.581	.563	.506	.454	.419	.373	.341	.308	.268	.240	.224				
17	.948	.907	.821	.726	.653	.591	.573	.518	.472	.438	.389	.357	.325	.289	.248	.232	.220			
18	.950	.907	.829	.736	.663	.601	.583	.528	.490	.454	.405	.373	.341	.292	.256	.238	.228	.216		
19	.952	.907	.837	.744	.673	.611	.593	.538	.502	.474	.421	.389	.357	.304	.264	.244	.234	.224	.212	
20	.954	.907	.843	.756	.683	.619	.603	.544	.512	.492	.438	.405	.373	.317	.272	.250	.240	.230	.220	.208
21	.956	.907	.849	.766	.694	.627	.613	.552	.520	.504	.454	.421	.389	.329	.280	.256	.246	.236	.226	.214
22	.958	.907	.855	.776	.704	.625	.621	.560	.528	.514	.470	.438	.405	.341	.288	.262	.252	.242	.232	.218
23	.960	.907	.861	.786	.714	.643	.629	.569	.536	.522	.482	.454	.421	.353	.294	.268	.258	.248	.238	.222
24	.960	.907	.867	.796	.724	.651	.637	.577	.544	.530	.492	.470	.438	.365	.304	.274	.264	.254	.244	.226
25	.960	.907	.869	.804	.734	.659	.645	.585	.552	.538	.500	.482	.454	.377	.313	.280	.270	.260	.250	.230
26	.960	.909	.871	.813	.744	.667	.653	.593	.560	.546	.508	.492	.470	.389	.321	.286	.276	.266	.256	.234
27	.960	.911	.875	.817	.754	.675	.661	.601	.569	.554	.516	.500	.482	.401	.329	.292	.282	.272	.262	.238
28	.960	.913	.879	.823	.762	.683	.669	.609	.577	.563	.524	.508	.492	.413	.337	.298	.288	.278	.268	.242
29	.960	.915	.883	.829	.772	.690	.677	.617	.585	.569	.534	.516	.500	.421	.345	.304	.294	.284	.274	.246
30	.960	.917	.887	.835	.782	.698	.683	.623	.593	.575	.540	.526	.508	.427	.353	.310	.300	.290	.280	.250
31	.960	.919	.891	.841	.790	.704	.692	.633	.601	.581	.546	.534	.518	.433	.359	.317	.306	.296	.286	.254
32	.960	.921	.895	.847	.798	.712	.700	.643	.609	.587	.552	.540	.526	.442	.365	.323	.313	.302	.292	.258
33	.960	.923	.899	.853	.806	.718	.706	.653	.619	.593	.558	.546	.534	.451	.373	.329	.319	.308	.298	.262
34	.960	.925	.903	.859	.815	.724	.712	.661	.629	.601	.565	.552	.540	.458	.381	.337	.325	.315	.304	.266
35	.960	.927	.907	.865	.823	.730	.718	.669	.637	.609	.573	.558	.546	.466	.389	.345	.333	.321	.310	.270
36	.960	.929	.909	.871	.831	.736	.724	.677	.645	.615	.581	.567	.552	.472	.397	.353	.341	.329	.317	.274
37	.960	.931	.911	.877	.839	.742	.730	.685	.653	.621	.587	.575	.550	.478	.405	.361	.349	.337	.325	.278
38	.960	.933	.913	.881	.847	.748	.73	.694	.661	.627	.593	.581	.569	.486	.413	.369	.357	.345	.333	.282
39	.960	.935	.915	.885	.855	.754	.742	.702	.669	.633	.599	.587	.575	.494	.423	.377	.365	.353	.341	.286
40	.960	.938	.917	.889	.863	.760	.748	.710	.677	.639	.605	.593	.581	.502	.433	.387	.373	.361	.349	.290

TOTAL OBSERVATIONS 496

TABLE 1. 7.a. P(W < W\*) I CONSECUTIVE LAUNCH OPPORTUNITIES IN J PERIODS (W\* = 55 M/SEC).  
 BASED ON MAXIMUM WIND SPEEDS IN THE 10-15 KM LAYER OVER CAPE KENNEDY, FLORIDA.  
 PERIOD OF RECORD JANUARY 1956 - DECEMBER 1963.

CAPE KENNEDY, FLORIDA JANUARY  
SPEEDS LESS THAN 55 MPS

PERIODS OF RECORD IN J PERIODS

	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
1	.649																			
2	.736	.758																		
3	.790	.457	.492																	
4	.831	.714	.593	.446																
5	.863	.767	.653	.544	.411															
6	.885	.798	.698	.611	.498	.385														
7	.901	.827	.738	.657	.563	.464	.343													
8	.913	.853	.760	.704	.611	.522	.444	.343												
9	.923	.873	.786	.728	.657	.567	.504	.429	.325											
10	.931	.891	.826	.756	.683	.613	.544	.482	.419	.307										
11	.935	.907	.827	.778	.716	.635	.590	.516	.476	.409	.290									
12	.938	.917	.847	.802	.742	.665	.605	.552	.510	.470	.395	.274								
13	.940	.923	.863	.821	.776	.694	.625	.569	.538	.504	.458	.385	.258							
14	.942	.929	.875	.835	.798	.734	.665	.585	.556	.528	.498	.448	.375	.242						
15	.944	.931	.889	.847	.817	.756	.685	.601	.569	.540	.516	.492	.438	.361	.230					
16	.946	.935	.891	.869	.829	.776	.706	.641	.583	.559	.536	.508	.486	.423	.347	.224				
17	.948	.938	.895	.875	.855	.788	.722	.667	.621	.567	.548	.528	.502	.476	.409	.337	.220			
18	.950	.940	.897	.881	.863	.819	.734	.688	.647	.597	.554	.540	.518	.494	.466	.395	.327	.216		
19	.952	.942	.899	.885	.871	.831	.764	.700	.673	.617	.591	.544	.532	.510	.488	.456	.383	.317	.212	
20	.954	.944	.901	.889	.877	.841	.780	.728	.688	.644	.599	.571	.538	.526	.502	.476	.448	.371	.304	.208
21	.956	.946	.903	.889	.885	.851	.792	.750	.710	.659	.627	.589	.560	.532	.520	.492	.468	.433	.365	.294
22	.958	.948	.905	.889	.885	.863	.811	.764	.730	.677	.641	.615	.591	.552	.526	.510	.486	.452	.427	.357
23	.960	.950	.907	.889	.885	.863	.833	.784	.744	.690	.659	.625	.607	.575	.544	.518	.502	.470	.446	.419
24	.960	.954	.909	.889	.885	.863	.837	.815	.760	.714	.673	.647	.613	.603	.567	.534	.512	.484	.464	.440
25	.960	.956	.915	.889	.885	.863	.841	.823	.790	.730	.688	.661	.631	.600	.595	.558	.528	.494	.478	.459
26	.960	.958	.919	.893	.885	.863	.843	.831	.802	.767	.698	.675	.645	.627	.601	.589	.552	.512	.486	.472
27	.960	.958	.925	.895	.889	.863	.845	.835	.815	.778	.726	.683	.657	.641	.619	.595	.595	.536	.506	.478
28	.960	.958	.929	.899	.891	.867	.847	.839	.823	.794	.744	.704	.665	.651	.633	.613	.591	.573	.528	.498
29	.960	.958	.933	.903	.893	.869	.853	.841	.831	.804	.764	.718	.679	.657	.643	.627	.607	.583	.565	.518
30	.960	.958	.938	.907	.895	.871	.857	.847	.833	.821	.782	.734	.692	.665	.651	.635	.621	.601	.577	.554
31	.960	.958	.940	.913	.897	.873	.861	.851	.839	.823	.804	.750	.708	.675	.659	.643	.627	.613	.597	.569
32	.960	.958	.942	.917	.901	.875	.863	.857	.843	.829	.808	.776	.724	.690	.669	.653	.633	.619	.609	.591
33	.960	.958	.944	.921	.903	.879	.865	.859	.851	.833	.817	.784	.750	.704	.683	.663	.643	.625	.613	.603
34	.960	.958	.946	.923	.907	.881	.869	.861	.853	.843	.823	.794	.762	.728	.696	.677	.653	.635	.617	.607
35	.960	.958	.948	.925	.909	.885	.871	.865	.855	.845	.837	.798	.782	.738	.716	.690	.669	.643	.625	.611
36	.960	.958	.950	.927	.911	.887	.875	.867	.859	.847	.841	.813	.790	.762	.724	.706	.681	.661	.629	.619
37	.960	.958	.952	.929	.913	.889	.877	.871	.851	.851	.843	.819	.806	.774	.748	.714	.694	.675	.643	.623
38	.960	.958	.954	.931	.915	.891	.879	.873	.865	.853	.847	.821	.815	.796	.760	.738	.702	.683	.659	.633
39	.960	.958	.956	.933	.917	.893	.881	.875	.867	.857	.844	.825	.817	.806	.784	.750	.726	.690	.665	.649
40	.960	.958	.956	.938	.919	.895	.883	.877	.869	.859	.853	.827	.821	.810	.794	.776	.738	.712	.671	.657

TOTAL OBSERVATIONS 436

TABLE 1.7.b. P(W < W\*) I LAUNCH OPPORTUNITIES IN J PERIODS (W\* = 55 M/SEC).  
BASED ON MAXIMUM WIND SPEEDS IN THE 10-15 KM LAYER OVER CAPE KENNEDY, FLORIDA.  
PERIOD OF RECORD JANUARY 1956 - DECEMBER 1963.

CAPE KENNEDY, FLORIDA JANUARY  
SPEEDS LESS THAN 60 M/S

PC ( I CONSECUTIVE SUCCESSSES IN J PERIODS )

J	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
1	.764																			
2	.835	.692																		
3	.879	.742	.641																	
4	.911	.792	.681	.403																
5	.935	.825	.722	.637	.571															
6	.954	.851	.767	.669	.603	.542														
7	.966	.871	.790	.702	.633	.573	.514													
8	.976	.891	.817	.737	.663	.601	.542	.496												
9	.984	.907	.839	.752	.694	.629	.567	.516	.480											
10	.991	.919	.861	.772	.722	.657	.591	.534	.496	.464										
11	.994	.927	.877	.792	.742	.683	.615	.552	.510	.484	.454									
12	.996	.935	.889	.813	.764	.710	.637	.571	.524	.498	.468	.442								
13	.998	.942	.897	.827	.784	.729	.659	.587	.538	.512	.480	.456	.429							
14	1.00	.948	.905	.839	.802	.746	.681	.603	.552	.526	.492	.468	.442	.419						
15	1.00	.954	.913	.849	.817	.760	.698	.619	.567	.540	.504	.480	.452	.431	.409					
16	1.00	.958	.919	.859	.829	.772	.712	.635	.581	.554	.516	.492	.462	.442	.421	.399				
17	1.00	.962	.925	.869	.839	.782	.722	.645	.595	.569	.528	.504	.472	.452	.431	.411	.389			
18	1.00	.964	.929	.877	.849	.790	.732	.653	.607	.583	.540	.516	.482	.462	.442	.421	.401	.379		
19	1.00	.970	.931	.883	.859	.796	.740	.661	.615	.595	.552	.528	.492	.472	.452	.431	.411	.391	.369	
20	1.00	.974	.933	.887	.867	.802	.744	.669	.623	.605	.563	.540	.502	.482	.462	.442	.421	.401	.381	.359
21	1.00	.978	.935	.887	.873	.808	.750	.677	.631	.613	.571	.550	.512	.492	.472	.452	.431	.411	.391	.371
22	1.00	.982	.936	.887	.877	.813	.754	.685	.639	.621	.581	.558	.520	.502	.482	.462	.442	.421	.401	.381
23	1.00	.984	.940	.887	.879	.817	.758	.694	.647	.629	.587	.569	.528	.510	.492	.472	.452	.431	.411	.391
24	1.00	.983	.942	.887	.881	.821	.760	.702	.655	.637	.593	.579	.538	.518	.500	.482	.462	.442	.421	.401
25	1.00	.990	.944	.887	.883	.825	.762	.710	.663	.645	.599	.585	.548	.528	.508	.490	.472	.452	.431	.411
26	1.00	.992	.946	.887	.883	.829	.766	.716	.671	.653	.605	.591	.558	.538	.518	.498	.480	.462	.442	.421
27	1.00	.994	.948	.887	.883	.833	.770	.724	.679	.661	.611	.597	.565	.544	.528	.508	.488	.470	.452	.431
28	1.00	.996	.950	.889	.883	.837	.774	.732	.688	.669	.617	.603	.571	.558	.538	.518	.498	.478	.460	.442
29	1.00	.998	.952	.891	.885	.841	.778	.738	.696	.679	.623	.609	.577	.565	.548	.528	.508	.488	.468	.450
30	1.00	1.00	.954	.893	.887	.847	.782	.744	.704	.688	.631	.615	.583	.571	.558	.538	.518	.498	.478	.458
31	1.00	1.00	.956	.895	.889	.853	.788	.750	.712	.694	.639	.623	.589	.577	.565	.548	.528	.508	.488	.468
32	1.00	1.00	.958	.897	.891	.859	.794	.758	.720	.704	.647	.631	.597	.583	.571	.558	.538	.518	.498	.478
33	1.00	1.00	.958	.899	.893	.865	.800	.766	.732	.717	.655	.639	.605	.589	.577	.565	.548	.528	.508	.488
34	1.00	1.00	.958	.901	.895	.871	.804	.774	.742	.724	.663	.647	.613	.595	.583	.571	.558	.538	.518	.498
35	1.00	1.00	.958	.903	.897	.875	.808	.782	.750	.736	.675	.655	.621	.601	.589	.577	.565	.548	.528	.508
36	1.00	1.00	.958	.905	.899	.879	.813	.788	.758	.744	.688	.667	.629	.607	.595	.583	.571	.558	.538	.518
37	1.00	1.00	.958	.907	.901	.883	.815	.794	.766	.752	.698	.679	.641	.613	.601	.589	.577	.565	.548	.528
38	1.00	1.00	.958	.909	.903	.887	.817	.800	.772	.760	.706	.690	.653	.623	.607	.595	.583	.571	.558	.538
39	1.00	1.00	.958	.911	.905	.891	.819	.804	.778	.768	.714	.700	.663	.633	.617	.601	.589	.577	.565	.548
40	1.00	1.00	.958	.913	.907	.895	.821	.808	.784	.774	.722	.708	.673	.641	.627	.611	.595	.583	.571	.558

TOTAL OBSERVATIONS 496

TABLE 1. S.a. P(W < W\*) I CONSECUTIVE LAUNCH OPPORTUNITIES IN J PERIODS (W\* = 60 M/SEC).  
BASED ON MAXIMUM WIND SPEEDS IN THE 10-15 KM LAYER OVER CAPE KENNEDY, FLORIDA.  
PERIOD OF RECORD JANUARY 1956 - DECEMBER 1963.

CAPE KENNEDY, FLORIDA JANUARY

SPEEDS LESS THAN 060 MPS

P ( I SUCCESSSES IN J PERIODS )

I

J	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
1	.764																			
2	.835	.692																		
3	.879	.768	.641																	
4	.911	.815	.724	.603																
5	.935	.851	.772	.688	.571															
6	.954	.875	.819	.732	.655	.542														
7	.966	.899	.845	.784	.696	.627	.516													
8	.976	.915	.873	.813	.752	.663	.601	.496												
9	.984	.927	.893	.849	.780	.726	.627	.581	.480											
10	.992	.938	.905	.875	.825	.754	.688	.603	.565	.468										
11	.994	.954	.913	.891	.857	.800	.714	.657	.585	.554	.454									
12	.996	.960	.931	.897	.879	.837	.760	.679	.635	.573	.542	.442								
13	.998	.966	.942	.911	.885	.867	.798	.722	.657	.615	.560	.532	.429							
14	1.00	.970	.952	.919	.899	.877	.837	.758	.696	.635	.601	.548	.522	.419						
15	1.00	.976	.956	.933	.909	.887	.853	.800	.730	.669	.621	.585	.536	.516	.409					
16	1.00	.980	.962	.938	.925	.899	.863	.819	.776	.704	.653	.601	.571	.528	.510	.399				
17	1.00	.984	.966	.944	.927	.919	.879	.825	.796	.752	.690	.629	.589	.556	.522	.504	.389			
18	1.00	.988	.970	.948	.931	.921	.905	.837	.802	.778	.740	.667	.613	.575	.546	.516	.498	.379		
19	1.00	.992	.974	.950	.935	.925	.913	.863	.808	.786	.768	.720	.651	.597	.563	.538	.510	.492	.369	
20	1.00	.994	.980	.952	.940	.927	.921	.877	.829	.792	.778	.752	.704	.637	.579	.554	.530	.504	.486	.359
21	1.00	.996	.984	.956	.944	.929	.923	.893	.843	.808	.784	.766	.738	.688	.621	.567	.546	.522	.498	.480
22	1.00	.998	.986	.960	.950	.931	.925	.899	.861	.823	.796	.774	.754	.724	.669	.609	.556	.538	.514	.492
23	1.00	1.00	.988	.960	.956	.938	.927	.903	.867	.845	.810	.782	.762	.744	.712	.649	.601	.546	.530	.508
24	1.00	1.00	.992	.960	.958	.944	.933	.905	.873	.853	.835	.794	.768	.752	.734	.694	.637	.589	.538	.524
25	1.00	1.00	.994	.962	.958	.950	.938	.911	.877	.863	.843	.821	.774	.762	.740	.720	.679	.623	.581	.530
26	1.00	1.00	.996	.964	.958	.952	.946	.915	.883	.869	.853	.835	.794	.766	.752	.726	.708	.665	.615	.573
27	1.00	1.00	.998	.966	.958	.954	.948	.925	.887	.877	.857	.847	.808	.786	.758	.738	.714	.696	.655	.607
28	1.00	1.00	1.00	.968	.958	.956	.950	.931	.895	.881	.865	.851	.823	.800	.778	.748	.724	.704	.685	.643
29	1.00	1.00	1.00	.972	.958	.956	.954	.935	.903	.887	.869	.859	.831	.810	.792	.770	.736	.714	.694	.673
30	1.00	1.00	1.00	.972	.962	.956	.954	.944	.909	.895	.873	.863	.843	.815	.800	.790	.758	.726	.706	.681
31	1.00	1.00	1.00	.972	.962	.960	.954	.946	.921	.901	.879	.867	.851	.823	.802	.798	.784	.748	.718	.696
32	1.00	1.00	1.00	.972	.962	.960	.958	.948	.925	.915	.885	.871	.857	.829	.808	.800	.794	.780	.738	.708
33	1.00	1.00	1.00	.972	.962	.960	.958	.954	.925	.923	.901	.875	.863	.835	.813	.804	.798	.790	.776	.726
34	1.00	1.00	1.00	.972	.962	.960	.958	.956	.929	.923	.913	.891	.867	.843	.817	.806	.802	.796	.786	.770
35	1.00	1.00	1.00	.972	.962	.960	.958	.956	.933	.925	.917	.901	.885	.849	.823	.808	.804	.800	.794	.782
36	1.00	1.00	1.00	.972	.962	.960	.958	.956	.938	.927	.919	.907	.895	.869	.827	.813	.806	.802	.798	.792
37	1.00	1.00	1.00	.972	.962	.960	.958	.956	.942	.929	.921	.911	.899	.883	.845	.815	.810	.804	.800	.796
38	1.00	1.00	1.00	.972	.962	.960	.958	.956	.944	.933	.921	.917	.903	.887	.861	.829	.813	.808	.802	.798
39	1.00	1.00	1.00	.972	.962	.960	.958	.956	.946	.935	.923	.919	.911	.889	.867	.843	.825	.810	.806	.800
40	1.00	1.00	1.00	.972	.962	.960	.958	.956	.948	.938	.923	.921	.917	.895	.871	.847	.839	.821	.808	.804

TOTAL OBSERVATIONS 496

TABLE 1. 8.b. P(W < W\*) I LAUNCH OPPORTUNITIES IN J PERIODS (W\* = 60 M/SEC).  
 BASED ON MAXIMUM WIND SPEEDS IN THE 10-15 KM LAYER OVER CAPE KENNEDY, FLORIDA.  
 PERIOD OF RECORD JANUARY 1956 - DECEMBER 1963.



CAPE KENNEDY, FLORIDA  
 WINDS LESS THAN 65 M/S

PERIOD OF CONSECUTIVE LAUNCH OPPORTUNITIES IN J PERIODS

J	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	
1	.841																				
2	.885	.794																			
3	.915	.833	.756																		
4	.938	.871	.792	.720																	
5	.952	.897	.829	.752	.688																
6	.964	.921	.865	.784	.720	.653															
7	.972	.935	.891	.817	.752	.683	.621														
8	.980	.946	.909	.849	.784	.714	.647	.597													
9	.986	.954	.923	.871	.817	.744	.677	.623	.575												
10	.992	.962	.933	.887	.847	.774	.700	.649	.595	.558											
11	.994	.968	.942	.901	.869	.802	.724	.675	.615	.575	.546										
12	.996	.974	.950	.913	.885	.831	.750	.702	.635	.591	.558	.536									
13	.998	.976	.954	.923	.899	.851	.774	.726	.655	.617	.571	.548	.526								
14	1.00	.978	.958	.933	.911	.867	.796	.750	.673	.623	.583	.560	.538	.516							
15	1.00	.980	.958	.940	.921	.881	.815	.772	.692	.630	.595	.573	.550	.528	.506						
16	1.00	.982	.958	.946	.931	.893	.829	.792	.708	.655	.607	.585	.563	.540	.518	.496					
17	1.00	.984	.958	.950	.938	.905	.841	.810	.722	.667	.619	.597	.575	.552	.530	.506	.488				
18	1.00	.986	.958	.952	.944	.915	.853	.823	.736	.681	.631	.609	.587	.565	.542	.516	.496	.482			
19	1.00	.988	.958	.954	.948	.923	.863	.835	.748	.694	.641	.621	.599	.577	.554	.526	.504	.490	.476		
20	1.00	.990	.958	.956	.950	.931	.871	.845	.756	.704	.651	.631	.611	.589	.567	.536	.512	.498	.484	.470	
21	1.00	.992	.958	.956	.957	.938	.877	.853	.764	.714	.659	.641	.621	.601	.579	.546	.520	.506	.492	.478	
22	1.00	.994	.958	.956	.954	.942	.883	.861	.770	.722	.667	.649	.631	.611	.591	.556	.528	.514	.500	.486	
23	1.00	.996	.958	.956	.954	.948	.889	.867	.776	.730	.675	.657	.639	.621	.601	.567	.536	.522	.508	.494	
24	1.00	.998	.958	.956	.954	.952	.895	.873	.782	.738	.681	.665	.647	.629	.611	.575	.544	.530	.516	.502	
25	1.00	1.00	.958	.956	.954	.952	.901	.881	.788	.744	.688	.673	.655	.637	.619	.583	.550	.538	.524	.510	
26	1.00	1.00	.958	.956	.954	.952	.907	.887	.796	.754	.694	.679	.663	.645	.627	.591	.556	.544	.532	.518	
27	1.00	1.00	.958	.956	.954	.952	.909	.893	.804	.764	.700	.688	.671	.653	.635	.599	.563	.550	.538	.526	
28	1.00	1.00	.958	.956	.954	.952	.911	.899	.810	.772	.708	.694	.679	.661	.643	.607	.569	.556	.544	.532	
29	1.00	1.00	.958	.956	.954	.952	.913	.901	.817	.780	.714	.702	.688	.671	.651	.615	.575	.563	.550	.538	
30	1.00	1.00	.958	.956	.954	.952	.915	.903	.823	.784	.720	.708	.696	.679	.661	.623	.581	.569	.556	.544	
31	1.00	1.00	.958	.956	.954	.952	.917	.907	.827	.792	.726	.714	.702	.690	.671	.633	.587	.575	.563	.550	
32	1.00	1.00	.958	.956	.954	.952	.919	.911	.833	.798	.730	.720	.706	.696	.681	.643	.595	.581	.569	.556	
33	1.00	1.00	.958	.956	.954	.952	.919	.915	.839	.804	.734	.726	.714	.702	.690	.653	.603	.589	.575	.563	
34	1.00	1.00	.958	.956	.954	.952	.919	.917	.845	.815	.740	.730	.720	.708	.696	.659	.611	.597	.583	.569	
35	1.00	1.00	.958	.956	.954	.952	.919	.917	.851	.823	.746	.736	.726	.714	.702	.665	.617	.605	.591	.577	
36	1.00	1.00	.958	.956	.954	.952	.919	.917	.855	.831	.752	.742	.732	.720	.708	.669	.623	.611	.599	.585	
37	1.00	1.00	.958	.956	.954	.952	.919	.917	.857	.839	.758	.748	.738	.728	.714	.673	.629	.617	.605	.593	
38	1.00	1.00	.958	.956	.954	.952	.919	.917	.859	.845	.764	.754	.744	.734	.722	.677	.633	.623	.611	.599	
39	1.00	1.00	.958	.956	.954	.952	.919	.917	.861	.849	.770	.760	.750	.740	.730	.683	.637	.629	.617	.605	
40	1.00	1.00	.958	.956	.954	.952	.919	.917	.863	.853	.776	.766	.756	.746	.736	.690	.643	.633	.623	.611	

TOTAL OBSERVATIONS 496

TABLE 1. 9-a. P(W ≥ W\*) I CONSECUTIVE LAUNCH OPPORTUNITIES IN J PERIODS (W\* = 65 M/SEC).  
 BASED ON MAXIMUM WIND SPEEDS IN THE 10-15 KM LAYER OVER CAPE KENNEDY, FLORIDA.

PERIOD OF RECORD JANUARY 1956 - DECEMBER 1963.

CAPE KENNEDY, FLORIDA JANUARY  
SPEEDS LESS THAN 65 M/S

P ( I SUCCESSSES IN J PERIODS )

	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
1	.441																			
2	.885	.794																		
3	.915	.847	.756																	
4	.938	.883	.817	.720																
5	.952	.913	.857	.788	.688															
6	.964	.927	.893	.831	.762	.653														
7	.972	.942	.909	.873	.817	.734	.621													
8	.980	.950	.925	.893	.858	.790	.704	.57												
9	.986	.959	.935	.913	.877	.837	.768	.681	.575											
10	.992	.964	.946	.925	.901	.861	.815	.750	.655	.558										
11	.994	.974	.952	.938	.917	.887	.841	.798	.729	.631	.546									
12	.996	.976	.966	.942	.931	.907	.869	.827	.776	.704	.613	.536								
13	.998	.978	.968	.958	.935	.923	.893	.857	.802	.751	.681	.603	.526							
14	1.00	.980	.970	.960	.954	.929	.909	.885	.831	.736	.653	.597	.516							
15	1.00	.984	.972	.960	.958	.950	.917	.901	.863	.761	.718	.649	.583	.506						
16	1.00	.986	.976	.967	.958	.956	.940	.911	.879	.847	.794	.748	.673	.606	.529	.496				
17	1.00	.988	.980	.964	.960	.958	.950	.933	.891	.867	.833	.772	.740	.695	.623	.550	.488			
18	1.00	.990	.984	.966	.962	.956	.952	.946	.911	.883	.859	.808	.762	.730	.685	.611	.548	.482		
19	1.00	.992	.988	.968	.964	.956	.954	.948	.927	.901	.877	.837	.798	.752	.720	.673	.597	.540	.476	
20	1.00	.994	.990	.972	.966	.956	.954	.952	.927	.923	.893	.857	.829	.788	.742	.710	.657	.587	.532	.470
21	1.00	.996	.992	.974	.970	.956	.954	.952	.931	.925	.919	.871	.853	.821	.778	.732	.696	.645	.577	.524
22	1.00	.998	.994	.976	.972	.958	.954	.952	.931	.920	.923	.897	.867	.849	.813	.768	.720	.683	.633	.567
23	1.00	1.00	.996	.978	.974	.958	.956	.952	.931	.920	.927	.905	.891	.863	.843	.804	.758	.708	.671	.619
24	1.00	1.00	1.00	.980	.976	.958	.956	.954	.931	.920	.927	.911	.901	.885	.857	.839	.796	.748	.696	.653
25	1.00	1.00	1.00	.986	.978	.958	.956	.954	.933	.920	.927	.913	.907	.897	.877	.853	.835	.786	.738	.677
26	1.00	1.00	1.00	.990	.982	.958	.956	.954	.935	.920	.927	.915	.909	.903	.891	.871	.849	.829	.774	.722
27	1.00	1.00	1.00	.994	.986	.958	.956	.954	.938	.920	.927	.917	.911	.905	.897	.887	.865	.843	.821	.758
28	1.00	1.00	1.00	.998	.990	.958	.956	.954	.940	.920	.927	.919	.913	.907	.901	.891	.883	.857	.835	.810
29	1.00	1.00	1.00	1.00	.996	.958	.956	.954	.942	.920	.927	.921	.915	.909	.903	.897	.885	.875	.849	.827
30	1.00	1.00	1.00	1.00	1.00	.962	.956	.954	.944	.920	.927	.923	.917	.911	.905	.899	.891	.877	.869	.843
31	1.00	1.00	1.00	1.00	1.00	.966	.960	.954	.946	.920	.927	.925	.919	.913	.907	.901	.893	.881	.875	.843
32	1.00	1.00	1.00	1.00	1.00	.968	.962	.958	.948	.920	.927	.925	.923	.915	.909	.903	.895	.883	.877	.873
33	1.00	1.00	1.00	1.00	1.00	.970	.964	.958	.954	.920	.927	.925	.923	.921	.911	.905	.897	.885	.879	.875
34	1.00	1.00	1.00	1.00	1.00	.972	.966	.958	.956	.933	.927	.925	.923	.921	.919	.907	.899	.887	.881	.875
35	1.00	1.00	1.00	1.00	1.00	.972	.970	.958	.956	.938	.929	.925	.923	.921	.910	.917	.901	.869	.883	.875
36	1.00	1.00	1.00	1.00	1.00	.972	.970	.962	.956	.940	.933	.925	.923	.921	.919	.917	.913	.891	.885	.875
37	1.00	1.00	1.00	1.00	1.00	.972	.970	.962	.960	.942	.935	.927	.923	.921	.919	.917	.913	.905	.887	.875
38	1.00	1.00	1.00	1.00	1.00	.972	.970	.962	.960	.948	.938	.927	.925	.921	.919	.917	.913	.907	.901	.875
39	1.00	1.00	1.00	1.00	1.00	.972	.970	.962	.960	.950	.944	.927	.925	.923	.919	.917	.913	.909	.903	.885
40	1.00	1.00	1.00	1.00	1.00	.972	.970	.962	.960	.952	.946	.931	.925	.923	.921	.917	.913	.911	.905	.885

TOTAL OBSERVATIONS 496

TABLE 1.9.b. P(W < W\*) I LAUNCH OPPORTUNITIES IN J PERIODS (W\* = 65 M/SEC).  
BASED ON MAXIMUM WIND SPEEDS IN THE 10-15 KM LAYER OVER CAPE KENNEDY, FLORIDA.

PERIOD OF RECORD JANUARY 1956 - DECEMBER 1963.

CAPE KENNEDY, FLORIDA JANUARY  
SPEEDS LESS THAN 70 MPS

PC ( I CONSECUTIVE SUCCESSES IN J PERIODS )

J	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
1	.889																			
2	.931	.845																		
3	.958	.879	.810																	
4	.968	.913	.845	.776																
5	.974	.938	.879	.804	.748															
6	.978	.950	.913	.833	.776	.722														
7	.982	.960	.935	.861	.804	.750	.694													
8	.986	.964	.948	.887	.833	.778	.720	.669												
9	.990	.966	.958	.905	.850	.806	.746	.694	.647											
10	.994	.968	.962	.915	.885	.833	.772	.718	.671	.627										
11	.996	.972	.944	.925	.903	.859	.796	.742	.696	.640	.609									
12	.998	.976	.968	.933	.913	.885	.821	.764	.720	.671	.629	.591								
13	1.00	.978	.972	.940	.923	.901	.845	.786	.742	.694	.649	.609	.575							
14	1.00	.980	.976	.946	.931	.911	.869	.808	.764	.714	.669	.627	.587	.563						
15	1.00	.982	.976	.952	.938	.921	.883	.831	.786	.734	.688	.645	.599	.575	.550					
16	1.00	.984	.980	.956	.944	.929	.891	.853	.808	.754	.706	.663	.611	.587	.560	.540				
17	1.00	.986	.982	.956	.950	.935	.899	.865	.831	.774	.724	.681	.623	.599	.571	.550	.530			
18	1.00	.988	.984	.956	.954	.942	.905	.871	.851	.794	.742	.700	.635	.611	.581	.560	.536	.511		
19	1.00	.990	.986	.956	.954	.948	.909	.881	.843	.813	.760	.718	.647	.623	.591	.571	.542	.530	.518	
20	1.00	.992	.988	.956	.954	.952	.913	.889	.871	.831	.776	.736	.659	.635	.601	.581	.548	.536	.524	.512
21	1.00	.994	.990	.956	.954	.952	.917	.895	.879	.841	.792	.752	.671	.647	.611	.591	.554	.542	.530	.518
22	1.00	.996	.992	.956	.954	.952	.919	.901	.887	.849	.808	.769	.681	.659	.621	.601	.560	.548	.536	.524
23	1.00	.998	.994	.956	.954	.952	.919	.907	.893	.857	.819	.784	.692	.669	.631	.611	.567	.554	.542	.530
24	1.00	1.00	.996	.956	.954	.952	.919	.911	.899	.865	.827	.780	.702	.679	.639	.621	.573	.560	.548	.536
25	1.00	1.00	.998	.956	.954	.952	.919	.913	.905	.873	.835	.793	.712	.690	.647	.629	.579	.567	.554	.542
26	1.00	1.00	1.00	.956	.954	.952	.919	.915	.909	.881	.843	.825	.772	.700	.655	.637	.585	.573	.560	.548
27	1.00	1.00	1.00	.956	.954	.952	.919	.917	.911	.887	.851	.835	.732	.710	.663	.645	.591	.579	.567	.554
28	1.00	1.00	1.00	.956	.954	.952	.919	.917	.913	.893	.857	.843	.740	.722	.671	.653	.597	.585	.573	.560
29	1.00	1.00	1.00	.956	.954	.952	.919	.917	.915	.897	.863	.849	.744	.732	.681	.661	.603	.591	.579	.567
30	1.00	1.00	1.00	.956	.954	.952	.919	.917	.915	.901	.869	.855	.748	.738	.692	.671	.609	.597	.585	.573
31	1.00	1.00	1.00	.956	.954	.952	.919	.917	.915	.905	.873	.861	.752	.744	.700	.681	.617	.603	.591	.579
32	1.00	1.00	1.00	.956	.954	.952	.919	.917	.915	.907	.877	.867	.756	.748	.708	.690	.625	.611	.597	.585
33	1.00	1.00	1.00	.956	.954	.952	.919	.917	.915	.900	.871	.871	.760	.752	.714	.698	.631	.619	.605	.591
34	1.00	1.00	1.00	.956	.954	.952	.919	.917	.915	.911	.885	.875	.764	.756	.720	.704	.637	.625	.613	.599
35	1.00	1.00	1.00	.956	.954	.952	.919	.917	.915	.913	.889	.879	.766	.760	.726	.708	.643	.631	.619	.607
36	1.00	1.00	1.00	.956	.954	.952	.919	.917	.915	.913	.893	.883	.770	.764	.732	.712	.649	.637	.625	.613
37	1.00	1.00	1.00	.956	.954	.952	.919	.917	.915	.913	.897	.887	.774	.768	.738	.716	.653	.643	.631	.619
38	1.00	1.00	1.00	.956	.954	.952	.919	.917	.915	.913	.899	.891	.778	.772	.746	.720	.657	.649	.627	.625
39	1.00	1.00	1.00	.956	.954	.952	.919	.917	.915	.913	.901	.895	.782	.776	.752	.726	.661	.653	.643	.631
40	1.00	1.00	1.00	.956	.954	.952	.919	.917	.915	.913	.903	.897	.786	.780	.758	.732	.667	.657	.649	.637

TOTAL OBSERVATIONS 496

TABLE 1.10.a. P(W < W\*) I CONSECUTIVE LAUNCH OPPORTUNITIES IN J PERIODS (W\* = 70 M/SEC).  
BASED ON MAXIMUM WIND SPEEDS IN THE 10-15 KM LAYER OVER CAPE KENNEDY, FLORIDA.  
PERIOD OF RECORD JANUARY 1956 - DECEMBER 1963.

CAPE KENNEDY, FLORIDA JANUARY  
SPEEDS LESS THAN 070 MPS

P ( I SUCCESSES IN J PERIODS )

	I																			
J	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
1	.889																			
2	.931	.845																		
3	.958	.895	.810																	
4	.968	.935	.871	.776																
5	.974	.952	.921	.841	.748															
6	.978	.960	.944	.899	.819	.722														
7	.982	.962	.956	.927	.883	.800	.694													
8	.986	.964	.958	.946	.913	.871	.780	.669												
9	.990	.966	.960	.948	.940	.901	.855	.764	.647											
10	.994	.970	.962	.950	.944	.933	.883	.843	.750	.627										
11	.996	.976	.966	.952	.946	.940	.921	.869	.833	.734	.609									
12	.998	.978	.974	.956	.948	.942	.929	.913	.857	.821	.718	.591								
13	1.00	.980	.976	.966	.950	.944	.931	.925	.905	.845	.704	.575								
14	1.00	.984	.978	.968	.960	.946	.933	.927	.921	.895	.829	.792	.685	.563						
15	1.00	.986	.982	.970	.962	.958	.935	.929	.923	.913	.883	.819	.772	.673	.550					
16	1.00	.988	.984	.974	.964	.960	.950	.931	.925	.913	.909	.873	.802	.760	.659	.540				
17	1.00	.990	.986	.978	.966	.962	.954	.946	.927	.913	.911	.905	.859	.788	.748	.647	.530			
18	1.00	.992	.988	.982	.968	.964	.958	.948	.942	.913	.911	.909	.897	.847	.774	.738	.631	.524		
19	1.00	.994	.990	.986	.970	.966	.962	.950	.944	.925	.911	.909	.903	.891	.835	.762	.724	.619	.518	
20	1.00	.996	.992	.988	.974	.968	.964	.954	.946	.925	.923	.909	.903	.899	.887	.823	.750	.710	.607	.512
21	1.00	.998	.99	.990	.976	.972	.966	.954	.952	.925	.923	.921	.903	.899	.897	.883	.808	.738	.700	.595
22	1.00	1.00	.996	.992	.978	.974	.970	.954	.952	.931	.923	.921	.915	.899	.897	.895	.877	.794	.728	.688
23	1.00	1.00	1.00	.994	.980	.976	.972	.956	.952	.931	.929	.921	.917	.909	.897	.895	.891	.871	.782	.716
24	1.00	1.00	1.00	1.00	.982	.978	.974	.956	.954	.931	.929	.927	.919	.911	.905	.895	.891	.869	.865	.770
25	1.00	1.00	1.00	1.00	.990	.980	.976	.956	.954	.933	.929	.927	.925	.915	.907	.901	.891	.889	.887	.859
26	1.00	1.00	1.00	1.00	.994	.986	.978	.956	.954	.935	.929	.927	.925	.923	.911	.903	.895	.889	.887	.885
27	1.00	1.00	1.00	1.00	.998	.992	.982	.956	.954	.934	.929	.927	.925	.923	.921	.907	.897	.891	.887	.885
28	1.00	1.00	1.00	1.00	1.00	.996	.986	.956	.954	.940	.929	.927	.925	.923	.921	.919	.901	.893	.887	.885
29	1.00	1.00	1.00	1.00	1.00	1.00	.994	.956	.954	.942	.929	.927	.925	.923	.921	.919	.915	.897	.887	.885
30	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.962	.954	.944	.929	.927	.925	.923	.921	.919	.917	.911	.889	.885
31	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.970	.958	.946	.929	.927	.925	.923	.921	.919	.917	.915	.903	.885
32	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.972	.966	.950	.929	.927	.925	.923	.921	.919	.917	.915	.911	.895
33	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.974	.968	.960	.929	.927	.925	.923	.921	.919	.917	.915	.913	.905
34	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.976	.972	.964	.935	.927	.925	.923	.921	.919	.917	.915	.913	.909
35	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.978	.972	.970	.940	.931	.925	.923	.921	.919	.917	.915	.913	.911
36	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.980	.972	.970	.948	.935	.927	.923	.921	.919	.917	.915	.913	.911
37	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.982	.972	.970	.950	.944	.931	.923	.921	.919	.917	.915	.913	.911
38	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.984	.972	.970	.952	.946	.940	.925	.921	.919	.917	.915	.913	.911
39	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.986	.972	.970	.954	.948	.942	.931	.923	.919	.917	.915	.913	.911
40	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.988	.972	.970	.956	.950	.944	.933	.927	.921	.917	.915	.913	.911
TOTAL OBSERVATIONS	496																			

TABLE 1.10.b. P(W < W\*) I LAUNCH OPPORTUNITIES IN J PERIODS (W\* = 70 M/SEC).  
BASED ON MAXIMUM WIND SPEEDS IN THE 10-15 KM LAYER OVER CAPE KENNEDY, FLORIDA.  
PERIOD OF RECORD JANUARY 1956 - DECEMBER 1963.

CAPE KENNEDY, FLORIDA (JANUARY)  
SPEEDS LESS THAN 075 MPS

PC ( I CONSECUTIVE SUCCESSSES IN J PERIODS )

	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
1	.940																			
2	.944	.915																		
3	.980	.938	.871																	
4	.988	.960	.909	.871																
5	.994	.974	.927	.889	.851															
6	.998	.980	.946	.907	.867	.835														
7	1.00	.986	.956	.925	.883	.851	.819													
8	1.00	.990	.958	.944	.899	.867	.835	.802												
9	1.00	.994	.950	.954	.915	.883	.851	.817	.788											
10	1.00	.996	.962	.956	.931	.899	.867	.831	.802	.774										
11	1.00	.998	.964	.958	.942	.915	.883	.845	.817	.788	.760									
12	1.00	1.00	.968	.960	.944	.931	.899	.859	.831	.802	.774	.746								
13	1.00	1.00	.972	.962	.946	.940	.915	.873	.845	.817	.788	.756	.736							
14	1.00	1.00	.976	.964	.948	.942	.920	.887	.859	.831	.802	.766	.744	.728						
15	1.00	1.00	.978	.966	.950	.944	.938	.899	.873	.845	.817	.776	.752	.734	.722					
16	1.00	1.00	.980	.968	.952	.946	.940	.911	.885	.859	.831	.786	.760	.740	.728	.716				
17	1.00	1.00	.982	.968	.954	.948	.942	.917	.897	.871	.845	.796	.768	.746	.734	.722	.710			
18	1.00	1.00	.984	.968	.956	.950	.944	.917	.909	.883	.857	.806	.776	.752	.740	.728	.716	.704		
19	1.00	1.00	.986	.968	.956	.952	.946	.917	.915	.895	.869	.815	.774	.758	.746	.734	.722	.710	.698	
20	1.00	1.00	.988	.968	.956	.954	.948	.917	.915	.907	.881	.823	.790	.764	.752	.740	.728	.716	.704	.692
21	1.00	1.00	.990	.968	.956	.954	.950	.917	.915	.913	.893	.831	.796	.770	.758	.746	.734	.722	.710	.698
22	1.00	1.00	.992	.968	.956	.954	.952	.917	.915	.913	.905	.839	.802	.776	.764	.752	.740	.728	.716	.704
23	1.00	1.00	.994	.968	.956	.954	.952	.917	.915	.913	.911	.847	.808	.782	.770	.758	.746	.734	.722	.710
24	1.00	1.00	.996	.968	.956	.954	.952	.917	.915	.913	.911	.855	.815	.788	.776	.764	.752	.740	.728	.716
25	1.00	1.00	.998	.968	.956	.954	.952	.917	.915	.913	.911	.861	.821	.794	.782	.770	.758	.746	.734	.722
26	1.00	1.00	1.00	.968	.956	.954	.952	.917	.915	.913	.911	.865	.827	.800	.788	.776	.764	.752	.740	.728
27	1.00	1.00	1.00	.968	.956	.954	.952	.917	.915	.913	.911	.869	.831	.806	.794	.782	.770	.758	.746	.734
28	1.00	1.00	1.00	.968	.956	.954	.952	.917	.915	.913	.911	.873	.835	.813	.800	.788	.776	.764	.752	.740
29	1.00	1.00	1.00	.968	.956	.954	.952	.917	.915	.913	.911	.877	.839	.817	.806	.794	.782	.770	.758	.746
30	1.00	1.00	1.00	.968	.956	.954	.952	.917	.915	.913	.911	.881	.843	.821	.813	.800	.788	.776	.764	.752
31	1.00	1.00	1.00	.968	.956	.954	.952	.917	.915	.913	.911	.885	.847	.825	.817	.806	.794	.782	.770	.758
32	1.00	1.00	1.00	.968	.956	.954	.952	.917	.915	.913	.911	.889	.851	.829	.821	.813	.800	.788	.776	.764
33	1.00	1.00	1.00	.968	.956	.954	.952	.917	.915	.913	.911	.893	.855	.833	.825	.817	.806	.794	.782	.770
34	1.00	1.00	1.00	.968	.956	.954	.952	.917	.915	.913	.911	.897	.859	.837	.829	.821	.813	.800	.788	.776
35	1.00	1.00	1.00	.968	.956	.954	.952	.917	.915	.913	.911	.901	.863	.841	.833	.825	.817	.806	.794	.782
36	1.00	1.00	1.00	.968	.956	.954	.952	.917	.915	.913	.911	.905	.867	.845	.837	.829	.821	.813	.800	.788
37	1.00	1.00	1.00	.968	.956	.954	.952	.917	.915	.913	.911	.909	.871	.849	.841	.833	.825	.817	.806	.794
38	1.00	1.00	1.00	.968	.956	.954	.952	.917	.915	.913	.911	.909	.875	.853	.845	.837	.829	.821	.813	.800
39	1.00	1.00	1.00	.968	.956	.954	.952	.917	.915	.913	.911	.909	.879	.857	.849	.841	.833	.825	.817	.806
40	1.00	1.00	1.00	.968	.956	.954	.952	.917	.915	.913	.911	.909	.879	.861	.853	.845	.837	.829	.821	.813

TOTAL OBSERVATIONS 496

TABLE 1.11.a. P(W = W\*) I CONSECUTIVE LAUNCH OPPORTUNITIES IN J PERIODS (W\* = 75 M/SEC).  
BASED ON MAXIMUM WIND SPEEDS IN THE 10-15 KM LAYER OVER CAPE KENNEDY, FLORIDA.  
PERIOD OF RECORD JANUARY 1956 - DECEMBER 1963.

CAPE KENNEDY, FLORIDA JANUARY  
SPEEDS LESS THAN 075 M/S

P ( I SUCCESSFUL J PERIODS )

I

J	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
1	.940																			
2	.964	.915																		
3	.980	.946	.891																	
4	.988	.968	.925	.871																
5	.994	.976	.952	.913	.851															
6	.998	.984	.956	.948	.899	.835														
7	1.00	.990	.962	.952	.942	.889	.819													
8	1.00	.996	.968	.956	.946	.938	.879	.802												
9	1.00	.998	.976	.962	.948	.942	.933	.867	.799											
10	1.00	1.00	.982	.970	.952	.944	.938	.927	.857	.774										
11	1.00	1.00	.990	.976	.958	.948	.940	.931	.923	.847	.760									
12	1.00	1.00	.994	.986	.964	.952	.944	.935	.925	.919	.837	.746								
13	1.00	1.00	.998	.990	.974	.958	.946	.940	.929	.921	.915	.823	.736							
14	1.00	1.00	1.00	.996	.976	.968	.952	.942	.933	.925	.805	.813	.728							
15	1.00	1.00	1.00	1.00	.982	.970	.964	.948	.935	.929	.92	.895	.806	.722						
16	1.00	1.00	1.00	1.00	.988	.976	.966	.962	.942	.931	.925	.911	.903	.887	.798	.716				
17	1.00	1.00	1.00	1.00	.990	.982	.972	.964	.958	.938	.927	.915	.903	.901	.879	.792	.710			
18	1.00	1.00	1.00	1.00	.992	.986	.978	.968	.960	.954	.933	.917	.905	.901	.879	.871	.786	.704		
19	1.00	1.00	1.00	1.00	.994	.990	.982	.974	.962	.958	.950	.923	.907	.901	.879	.897	.863	.780	.698	
20	1.00	1.00	1.00	1.00	.996	.992	.988	.976	.968	.958	.956	.942	.911	.901	.909	.897	.895	.855	.774	.692
21	1.00	1.00	1.00	1.00	.998	.994	.990	.982	.970	.962	.956	.952	.927	.903	.899	.897	.895	.893	.849	.768
22	1.00	1.00	1.00	1.00	1.00	.996	.992	.984	.976	.962	.960	.954	.938	.917	.901	.897	.895	.893	.891	.843
23	1.00	1.00	1.00	1.00	1.00	1.00	.994	.986	.980	.964	.960	.958	.942	.927	.913	.899	.895	.893	.891	.889
24	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.988	.982	.968	.960	.958	.948	.931	.923	.909	.897	.893	.891	.889
25	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.996	.984	.970	.962	.958	.950	.938	.927	.919	.905	.895	.891	.889
26	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.998	.992	.972	.964	.958	.952	.942	.929	.925	.915	.901	.893	.889
27	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.996	.978	.966	.958	.954	.946	.931	.925	.923	.911	.897	.891
28	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.994	.970	.958	.956	.950	.933	.925	.923	.921	.907	.893
29	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.990	.978	.958	.956	.954	.938	.925	.923	.921	.919	.903
30	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.990	.986	.964	.956	.954	.944	.927	.923	.921	.919	.917
31	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.990	.988	.970	.962	.954	.946	.933	.923	.921	.919	.917
32	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.990	.988	.974	.966	.960	.948	.935	.927	.921	.919	.917
33	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.990	.988	.974	.972	.962	.956	.938	.927	.925	.919	.917
34	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.992	.988	.974	.972	.970	.958	.946	.927	.925	.923	.917
35	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.994	.986	.974	.972	.970	.966	.952	.931	.925	.923	.921
36	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.996	.988	.974	.972	.970	.968	.960	.938	.927	.923	.921
37	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.998	.988	.974	.972	.970	.968	.964	.946	.933	.923	.921
38	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.994	.974	.972	.970	.968	.964	.952	.942	.927	.921
39	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.990	.974	.972	.970	.968	.964	.954	.948	.933	.925
40	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.990	.976	.972	.970	.968	.964	.956	.950	.940	.929

TOTAL OBSERVATIONS 496

TABLE 1.11.b. P(W < W\*) I LAUNCH OPPORTUNITIES IN J PERIODS (W\* = 75 M/SEC).  
BASED ON MAXIMUM WIND SPEEDS IN THE 10-15 AM LAYER OVER CAPE KENNEDY, FLORIDA.  
PERIOD OF RECORD JANUARY 1956 - DECEMBER 1963.

CAPE KENNEDY, FLORIDA JANUARY

SPEEDS LESS THAN 080 MPH

PC ( 1 CONSECUTIVE SUCCESSES IN J PERIODS )

J	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
1	.966																			
2	.986	.946																		
3	.994	.966	.923																	
4	.998	.986	.940	.905																
5	1.00	.994	.956	.921	.887															
6	1.00	.998	.972	.938	.901	.871														
7	1.00	1.00	.978	.954	.915	.885	.855													
8	1.00	1.00	.980	.970	.929	.899	.869	.839												
9	1.00	1.00	.982	.976	.944	.913	.883	.851	.825											
10	1.00	1.00	.984	.978	.958	.927	.897	.863	.835	.813										
11	1.00	1.00	.988	.980	.964	.942	.911	.875	.845	.823	.800									
12	1.00	1.00	.992	.984	.968	.956	.925	.887	.855	.833	.810	.788								
13	1.00	1.00	.994	.988	.972	.962	.940	.899	.865	.843	.821	.796	.778							
14	1.00	1.00	.996	.992	.976	.966	.954	.911	.875	.853	.831	.804	.784	.770						
15	1.00	1.00	.998	.994	.980	.970	.960	.923	.885	.863	.841	.813	.790	.774	.764					
16	1.00	1.00	1.00	.996	.984	.974	.964	.935	.895	.873	.851	.821	.796	.778	.768	.758				
17	1.00	1.00	1.00	.998	.984	.978	.968	.940	.905	.883	.861	.829	.802	.782	.772	.762	.752			
18	1.00	1.00	1.00	1.00	.984	.982	.972	.942	.915	.893	.871	.837	.808	.786	.776	.766	.756	.746		
19	1.00	1.00	1.00	1.00	.986	.982	.974	.944	.917	.893	.881	.845	.815	.793	.780	.770	.760	.750	.740	
20	1.00	1.00	1.00	1.00	.988	.982	.980	.946	.917	.913	.891	.853	.821	.794	.784	.774	.764	.754	.744	.734
21	1.00	1.00	1.00	1.00	.990	.982	.980	.948	.917	.915	.901	.861	.827	.798	.788	.778	.768	.758	.748	.738
22	1.00	1.00	1.00	1.00	.992	.982	.980	.950	.917	.915	.911	.869	.833	.802	.792	.782	.772	.762	.752	.742
23	1.00	1.00	1.00	1.00	.994	.982	.980	.950	.917	.915	.913	.877	.839	.806	.796	.786	.776	.766	.756	.746
24	1.00	1.00	1.00	1.00	.996	.982	.980	.950	.917	.915	.913	.885	.845	.810	.800	.790	.780	.770	.760	.750
25	1.00	1.00	1.00	1.00	.998	.982	.980	.950	.917	.915	.913	.887	.851	.815	.804	.794	.784	.774	.764	.754
26	1.00	1.00	1.00	1.00	1.00	.982	.980	.950	.917	.915	.913	.889	.857	.819	.808	.798	.788	.778	.768	.758
27	1.00	1.00	1.00	1.00	1.00	.982	.980	.950	.917	.915	.913	.891	.861	.823	.813	.802	.792	.782	.772	.762
28	1.00	1.00	1.00	1.00	1.00	.982	.980	.950	.917	.915	.913	.893	.865	.827	.817	.806	.796	.786	.776	.766
29	1.00	1.00	1.00	1.00	1.00	.982	.980	.950	.917	.915	.913	.895	.869	.831	.821	.810	.800	.790	.780	.770
30	1.00	1.00	1.00	1.00	1.00	.982	.980	.950	.917	.915	.913	.897	.873	.835	.825	.815	.804	.794	.784	.774
31	1.00	1.00	1.00	1.00	1.00	.982	.980	.950	.917	.915	.913	.899	.877	.839	.829	.817	.808	.798	.788	.778
32	1.00	1.00	1.00	1.00	1.00	.982	.980	.950	.917	.915	.913	.901	.881	.843	.833	.823	.813	.802	.792	.782
33	1.00	1.00	1.00	1.00	1.00	.982	.980	.950	.917	.915	.913	.903	.885	.847	.837	.827	.817	.806	.796	.786
34	1.00	1.00	1.00	1.00	1.00	.982	.980	.950	.917	.915	.913	.905	.889	.851	.841	.831	.823	.810	.803	.790
35	1.00	1.00	1.00	1.00	1.00	.982	.980	.950	.917	.915	.913	.907	.893	.855	.845	.835	.827	.817	.804	.794
36	1.00	1.00	1.00	1.00	1.00	.982	.980	.950	.917	.915	.913	.909	.897	.859	.849	.839	.831	.823	.810	.798
37	1.00	1.00	1.00	1.00	1.00	.982	.980	.950	.917	.915	.913	.911	.901	.863	.853	.843	.835	.827	.817	.804
38	1.00	1.00	1.00	1.00	1.00	.982	.980	.950	.917	.915	.913	.911	.905	.867	.857	.847	.839	.831	.823	.810
39	1.00	1.00	1.00	1.00	1.00	.982	.980	.950	.917	.915	.913	.911	.909	.871	.861	.851	.843	.835	.827	.817
40	1.00	1.00	1.00	1.00	1.00	.982	.980	.950	.917	.915	.913	.911	.909	.875	.865	.855	.847	.839	.831	.823

TOTAL OBSERVATIONS 496

1.12.a. P(W < W\*) 1 CONSECUTIVE LAUNCH OPPORTUNITIES IN J PERIODS (W\* = 80 M/SEC).

BASED ON MAXIMUM WIND SPEEDS IN THE 10-15 KM LAYER OVER CAPE KENNEDY, FLORIDA.

PERIOD OF RECORD JANUARY 1956 - DECEMBER 1963.

CAPE KENNEDY, FLORIDA JANUARY  
SPEEDS LESS THAN 80 KPH

P (I SUCCESSSES IN J PERIODS)

J	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
1	.966																			
2	.986	.946																		
3	.994	.974	.923																	
4	.998	.993	.964	.905																
5	1.00	.996	.978	.956	.887															
6	1.00	1.00	.984	.974	.946	.871														
7	1.00	1.00	.990	.980	.968	.938	.855													
8	1.00	1.00	.992	.986	.974	.962	.929	.830												
9	1.00	1.00	.974	.990	.982	.972	.956	.919	.825											
10	1.00	1.00	.996	.992	.988	.978	.968	.946	.911	.813										
11	1.00	1.00	.998	.994	.990	.986	.974	.960	.940	.907	.800									
12	1.00	1.00	1.00	.996	.992	.988	.984	.968	.954	.933	.895	.788								
13	1.00	1.00	1.00	1.00	.994	.990	.984	.982	.942	.940	.925	.887	.778							
14	1.00	1.00	1.00	1.00	1.00	.997	.984	.982	.980	.954	.942	.917	.879	.770						
15	1.00	1.00	1.00	1.00	1.00	1.00	.986	.982	.980	.974	.948	.935	.909	.871	.764					
16	1.00	1.00	1.00	1.00	1.00	1.00	.996	.984	.980	.974	.970	.942	.929	.901	.865	.758				
17	1.00	1.00	1.00	1.00	1.00	1.00	.998	.994	.982	.974	.972	.964	.938	.921	.895	.859	.752			
18	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.996	.992	.976	.972	.970	.958	.931	.913	.891	.853	.746		
19	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.994	.986	.974	.970	.968	.952	.921	.909	.887	.847	.740	
20	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.990	.982	.970	.968	.964	.944	.915	.905	.883	.841	.734
21	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.986	.974	.968	.964	.958	.933	.911	.901	.879	.835
22	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.976	.970	.964	.960	.954	.931	.907	.897	.875
23	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.992	.972	.964	.962	.956	.950	.925	.903	.893
24	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.992	.990	.964	.962	.960	.952	.946	.919	.897
25	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.992	.990	.982	.962	.960	.958	.948	.942	.911
26	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.992	.990	.986	.976	.960	.958	.956	.944	.935
27	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.992	.990	.988	.982	.970	.958	.956	.954	.940
28	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.992	.990	.988	.986	.978	.964	.956	.954	.952
29	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.992	.990	.988	.986	.984	.974	.958	.954	.952
30	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.992	.990	.988	.986	.984	.982	.968	.954	.952
31	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.992	.990	.988	.986	.984	.982	.978	.962	.952
32	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.992	.990	.988	.986	.984	.982	.980	.970	.960
33	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.992	.990	.988	.986	.984	.982	.980	.974	.966
34	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.994	.990	.988	.986	.984	.982	.980	.974	.972
35	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.996	.992	.988	.986	.984	.982	.980	.974	.972
36	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.998	.994	.988	.986	.984	.982	.980	.974	.972
37	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.996	.988	.986	.984	.982	.980	.974	.972	
38	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.988	.986	.984	.982	.980	.974	.972	
39	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.994	.986	.984	.982	.980	.974	.972	
40	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.996	.990	.984	.982	.980	.974	.972	

TOTAL OBSERVATIONS 496

TABLE 1.12.b. P(W < W\*) LAUNCH OPPORTUNITIES IN J PERIODS (W\* = 80 M/SEC).  
BASED ON MAXIMUM WIND SPEEDS IN THE 10-15 KM LAYER OVER CAPE KENNEDY, FLORIDA.  
PERIOD OF RECORD JANUARY 1956 - DECEMBER 1963.



CAPE KENNEDY, FLORIDA JANUARY

SPEEDS LESS THAN 85 MPS

PC ( I CONSECUTIVE SUCCESSES IN J PERIODS )

	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	
1	.984																				
2	.994	.974																			
3	.998	.984	.962																		
4	1.00	.994	.970	.952																	
5	1.00	.998	.978	.960	.942																
6	1.00	1.00	.986	.968	.950	.931															
7	1.00	1.00	.988	.976	.958	.940	.921														
8	1.00	1.00	.990	.984	.966	.948	.929	.911													
9	1.00	1.00	.990	.986	.974	.956	.938	.919	.901												
10	1.00	1.00	.992	.988	.982	.964	.946	.927	.907	.893											
11	1.00	1.00	.994	.990	.984	.972	.954	.935	.913	.890	.885										
12	1.00	1.00	.996	.992	.988	.980	.962	.944	.919	.905	.891	.877									
13	1.00	1.00	.998	.994	.990	.982	.970	.952	.925	.911	.897	.883	.869								
14	1.00	1.00	1.00	.996	.992	.984	.978	.960	.931	.917	.903	.889	.875	.861							
15	1.00	1.00	1.00	.998	.994	.984	.980	.968	.938	.923	.909	.895	.881	.867	.853						
16	1.00	1.00	1.00	1.00	.996	.984	.982	.976	.944	.929	.915	.901	.887	.873	.859	.845					
17	1.00	1.00	1.00	1.00	.998	.984	.982	.978	.950	.935	.921	.907	.893	.879	.865	.851	.835				
18	1.00	1.00	1.00	1.00	1.00	.984	.982	.980	.956	.942	.927	.913	.899	.885	.871	.857	.841	.825			
19	1.00	1.00	1.00	1.00	1.00	.984	.982	.980	.958	.944	.933	.919	.905	.891	.877	.863	.847	.831	.815		
20	1.00	1.00	1.00	1.00	1.00	.984	.982	.980	.960	.954	.940	.925	.911	.897	.883	.869	.853	.837	.819	.806	
21	1.00	1.00	1.00	1.00	1.00	.984	.982	.980	.960	.956	.946	.931	.917	.903	.889	.875	.859	.843	.823	.810	
22	1.00	1.00	1.00	1.00	1.00	.984	.982	.980	.960	.958	.952	.938	.923	.909	.895	.881	.865	.849	.827	.815	
23	1.00	1.00	1.00	1.00	1.00	.984	.982	.980	.960	.958	.954	.944	.929	.915	.901	.887	.871	.855	.831	.819	
24	1.00	1.00	1.00	1.00	1.00	.984	.982	.980	.960	.958	.956	.950	.935	.921	.907	.893	.877	.861	.835	.823	
25	1.00	1.00	1.00	1.00	1.00	.984	.982	.980	.960	.958	.956	.952	.942	.927	.913	.899	.883	.867	.839	.827	
26	1.00	1.00	1.00	1.00	1.00	.984	.982	.980	.960	.958	.956	.954	.948	.933	.919	.905	.889	.873	.843	.831	
27	1.00	1.00	1.00	1.00	1.00	.984	.982	.980	.960	.958	.956	.954	.950	.940	.925	.911	.895	.879	.847	.835	
28	1.00	1.00	1.00	1.00	1.00	.984	.982	.980	.960	.958	.956	.954	.952	.946	.931	.917	.901	.885	.851	.839	
29	1.00	1.00	1.00	1.00	1.00	.984	.982	.980	.960	.958	.956	.954	.952	.948	.938	.923	.907	.891	.855	.843	
30	1.00	1.00	1.00	1.00	1.00	.984	.982	.980	.960	.958	.956	.954	.952	.950	.944	.929	.913	.897	.859	.847	
31	1.00	1.00	1.00	1.00	1.00	.984	.982	.980	.960	.958	.956	.954	.952	.950	.946	.935	.919	.903	.863	.851	
32	1.00	1.00	1.00	1.00	1.00	.984	.982	.980	.960	.958	.956	.954	.952	.950	.948	.942	.925	.909	.867	.855	
33	1.00	1.00	1.00	1.00	1.00	.984	.982	.980	.960	.958	.956	.954	.952	.950	.948	.944	.931	.915	.871	.859	
34	1.00	1.00	1.00	1.00	1.00	.984	.982	.980	.960	.958	.956	.954	.952	.950	.948	.946	.940	.921	.875	.863	
35	1.00	1.00	1.00	1.00	1.00	.984	.982	.980	.960	.958	.956	.954	.952	.950	.948	.946	.942	.929	.879	.867	
36	1.00	1.00	1.00	1.00	1.00	.984	.982	.980	.960	.958	.956	.954	.952	.950	.948	.946	.944	.938	.885	.871	
37	1.00	1.00	1.00	1.00	1.00	.984	.982	.980	.960	.958	.956	.954	.952	.950	.948	.946	.944	.940	.891	.877	
38	1.00	1.00	1.00	1.00	1.00	.984	.982	.980	.960	.958	.956	.954	.952	.950	.948	.946	.944	.942	.897	.883	
39	1.00	1.00	1.00	1.00	1.00	.984	.982	.980	.960	.958	.956	.954	.952	.950	.948	.946	.944	.942	.897	.889	
40	1.00	1.00	1.00	1.00	1.00	.984	.982	.980	.960	.958	.956	.954	.952	.950	.948	.946	.944	.942	.897	.895	

TOTAL OBSERVATIONS 496

TABLE 1.13.a. P(W < W\*) I CONSECUTIVE LAUNCH OPPORTUNITIES IN J PERIODS (W\* = 85 M/SEC).  
 BASED ON MAXIMUM WIND SPEEDS IN THE 10-15 KM LAYER OVER CAPE KENNEDY, FLORIDA.  
 PERIOD OF RECORD JANUARY 1956 - DECEMBER 1963.

CAPE KENNEDY, FLORIDA JANUARY  
SPEEDS LESS THAN 0.85 MPS

P : I SUCCESSFUL IN J PERIODS )

	I																				
J	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	
1	.984																				
2	.994	.974																			
3	.998	.990	.962																		
4	1.00	.996	.982	.952																	
5	1.00	1.00	.988	.978	.942																
6	1.00	1.00	.994	.984	.974	.931															
7	1.00	1.00	.994	.992	.980	.970	.921														
8	1.00	1.00	.996	.992	.990	.976	.966	.911													
9	1.00	1.00	.998	.994	.990	.988	.972	.962	.901												
10	1.00	1.00	1.00	.996	.992	.988	.986	.968	.956	.893											
11	1.00	1.00	1.00	1.00	.994	.990	.986	.984	.962	.952	.885										
12	1.00	1.00	1.00	1.00	1.00	.992	.988	.984	.982	.956	.948	.877									
13	1.00	1.00	1.00	1.00	1.00	1.00	.990	.984	.982	.980	.950	.944	.869								
14	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.984	.982	.980	.976	.946	.940	.861							
15	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.996	.982	.980	.976	.974	.942	.935	.853						
16	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.998	.994	.980	.976	.974	.972	.938	.931	.845					
17	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.996	.992	.976	.974	.972	.970	.933	.927	.835				
18	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.994	.988	.974	.972	.970	.968	.929	.923	.825			
19	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.992	.984	.972	.970	.968	.966	.925	.919	.815		
20	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.990	.978	.970	.968	.966	.964	.921	.913	.806	
21	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.984	.974	.968	.966	.964	.962	.915	.909
22	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.994	.982	.970	.966	.964	.962	.958	.911
23	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.996	.992	.980	.966	.964	.962	.960	.954
24	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.998	.994	.990	.976	.964	.962	.960	.958
25	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.996	.990	.986	.974	.962	.960	.958
26	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.990	.988	.982	.972	.960	.958
27	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.994	.988	.986	.978	.970	.958
28	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.994	.992	.986	.984	.974	.968
29	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.994	.992	.990	.984	.982	.970
30	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.996	.992	.990	.988	.982	.980
31	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.998	.992	.990	.988	.986	.980
32	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.994	.990	.988	.986	.984
33	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.998	.990	.988	.986	.984
34	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.994	.988	.986	.984	
35	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.998	.992	.986	.984	
36	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.996	.988	.984	
37	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.990	.986	
38	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.994	.988	
39	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.996	.992	
40	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.998	.994	

TOTAL OBSERVATIONS 496

TABLE 1.13 b. P(W < W\*) I LAUNCH OPPORTUNITIES IN J PERIODS (W\* = 85 M/SEC).  
BASED ON MAXIMUM WIND SPEEDS IN THE 10-15 KM LAYER OVER CAPE KENNEDY, FLORIDA.  
PERIOD OF RECORD JANUARY 1956 - DECEMBER 1963.

CAPE KENNEDY, FLORIDA FEBRUARY

SPEEDS LESS THAN 25 MPS

PC ( 1 CONSECUTIVE SUCCESSSES IN J PERIODS )

	I																			
J	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
1	.086																			
2	.122	.051																		
3	.153	.064	.035																	
4	.179	.077	.040	.029																
5	.206	.091	.044	.031	.024															
6	.223	.104	.049	.033	.027	.020														
7	.239	.117	.053	.035	.029	.020	.018													
8	.254	.128	.058	.038	.031	.020	.018	.015												
9	.270	.139	.062	.040	.033	.020	.018	.015	.013											
10	.288	.150	.066	.042	.035	.020	.018	.015	.013	.011										
11	.305	.164	.071	.044	.038	.020	.018	.015	.013	.011	.009									
12	.323	.177	.077	.046	.040	.020	.018	.015	.013	.011	.009	.007								
13	.341	.188	.084	.051	.042	.020	.018	.015	.013	.011	.009	.007	.004							
14	.358	.199	.091	.055	.044	.020	.018	.015	.013	.011	.009	.007	.004	.002						
15	.376	.210	.097	.060	.046	.020	.018	.015	.013	.011	.009	.007	.004	.002	.000					
16	.394	.221	.104	.064	.049	.020	.018	.015	.013	.011	.009	.007	.004	.002	.000	.000				
17	.412	.232	.111	.069	.051	.020	.018	.015	.013	.011	.009	.007	.004	.002	.000	.000	.000			
18	.427	.241	.117	.073	.053	.020	.018	.015	.013	.011	.009	.007	.004	.002	.000	.000	.000	.000		
19	.442	.250	.124	.077	.055	.020	.018	.015	.013	.011	.009	.007	.004	.002	.000	.000	.000	.000	.000	
20	.458	.259	.131	.082	.058	.020	.018	.015	.013	.011	.009	.007	.004	.002	.000	.000	.000	.000	.000	.000
21	.473	.268	.137	.086	.060	.020	.018	.015	.013	.011	.009	.007	.004	.002	.000	.000	.000	.000	.000	.000
22	.489	.277	.144	.091	.062	.020	.018	.015	.013	.011	.009	.007	.004	.002	.000	.000	.000	.000	.000	.000
23	.500	.285	.150	.095	.064	.020	.018	.015	.013	.011	.009	.007	.004	.002	.000	.000	.000	.000	.000	.000
24	.511	.294	.157	.100	.066	.020	.018	.015	.013	.011	.009	.007	.004	.002	.000	.000	.000	.000	.000	.000
25	.522	.301	.164	.104	.069	.020	.018	.015	.013	.011	.009	.007	.004	.002	.000	.000	.000	.000	.000	.000
26	.531	.308	.170	.108	.071	.020	.018	.015	.013	.011	.009	.007	.004	.002	.000	.000	.000	.000	.000	.000
27	.540	.312	.175	.113	.073	.020	.018	.015	.013	.011	.009	.007	.004	.002	.000	.000	.000	.000	.000	.000
28	.549	.316	.179	.117	.075	.020	.018	.015	.013	.011	.009	.007	.004	.002	.000	.000	.000	.000	.000	.000
29	.558	.321	.184	.122	.077	.020	.018	.015	.013	.011	.009	.007	.004	.002	.000	.000	.000	.000	.000	.000
30	.562	.325	.188	.126	.080	.020	.018	.015	.013	.011	.009	.007	.004	.002	.000	.000	.000	.000	.000	.000
31	.566	.330	.192	.131	.082	.020	.018	.015	.013	.011	.009	.007	.004	.002	.000	.000	.000	.000	.000	.000
32	.571	.334	.197	.135	.084	.020	.018	.015	.013	.011	.009	.007	.004	.002	.000	.000	.000	.000	.000	.000
33	.575	.338	.201	.139	.086	.020	.018	.015	.013	.011	.009	.007	.004	.002	.000	.000	.000	.000	.000	.000
34	.580	.343	.206	.144	.088	.020	.018	.015	.013	.011	.009	.007	.004	.002	.000	.000	.000	.000	.000	.000
35	.584	.347	.210	.148	.091	.020	.018	.015	.013	.011	.009	.007	.004	.002	.000	.000	.000	.000	.000	.000
36	.588	.352	.215	.153	.093	.020	.018	.015	.013	.011	.009	.007	.004	.002	.000	.000	.000	.000	.000	.000
37	.593	.354	.219	.157	.095	.020	.018	.015	.013	.011	.009	.007	.004	.002	.000	.000	.000	.000	.000	.000
38	.597	.356	.223	.162	.097	.020	.018	.015	.013	.011	.009	.007	.004	.002	.000	.000	.000	.000	.000	.000
39	.600	.358	.228	.166	.100	.020	.018	.015	.013	.011	.009	.007	.004	.002	.000	.000	.000	.000	.000	.000
40	.602	.361	.232	.170	.102	.020	.018	.015	.013	.011	.009	.007	.004	.002	.000	.000	.000	.000	.000	.000

TOTAL OBSERVATIONS 452

TABLE 2. 1-a. P(W < W\*) I CONSECUTIVE LAUNCH OPPORTUNITIES IN J PERIODS (W\* = 25 M/SEC).  
 BASED ON MAXIMUM WIND SPEEDS IN THE 10-15 KM LAYER OVER CAPE KENNEDY, FLORIDA.

PERIOD OF RECORD JANUARY 1956 - DECEMBER 1963.

CAPE KENNEDY, FLORIDA FEBRUARY  
SPEEDS LESS THAN 25 MPH

P ( I SUCCESSES IN J PERIODS )

	I																			
J	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
1	.086																			
2	.122	.051																		
3	.153	.069	.035																	
4	.179	.085	.042	.029																
5	.206	.102	.051	.031	.024															
6	.223	.122	.062	.033	.027	.020														
7	.239	.137	.073	.040	.029	.020	.018													
8	.254	.150	.084	.046	.033	.020	.018	.015												
9	.270	.164	.095	.051	.040	.020	.018	.015	.013											
10	.288	.177	.104	.058	.044	.027	.018	.015	.013	.011										
11	.305	.192	.111	.064	.049	.022	.020	.015	.013	.011	.009									
12	.323	.206	.119	.069	.055	.022	.020	.018	.013	.011	.009	.007								
13	.341	.219	.126	.075	.060	.024	.020	.018	.015	.011	.009	.007	.004							
14	.358	.232	.133	.082	.064	.027	.020	.018	.015	.013	.009	.007	.004	.002						
15	.376	.246	.139	.088	.071	.029	.020	.018	.015	.013	.011	.007	.004	.002	.000					
16	.394	.261	.146	.093	.077	.031	.020	.018	.015	.013	.011	.009	.004	.002	.000	.000				
17	.412	.272	.157	.097	.084	.035	.020	.018	.015	.013	.011	.009	.007	.002	.000	.000	.000			
18	.427	.285	.164	.106	.088	.040	.020	.018	.015	.013	.011	.009	.007	.004	.000	.000	.000	.000		
19	.442	.296	.173	.113	.095	.042	.020	.018	.015	.013	.011	.009	.007	.004	.002	.000	.000	.000	.000	
20	.458	.308	.181	.119	.102	.044	.020	.018	.015	.013	.011	.009	.007	.004	.002	.000	.000	.000	.000	.000
21	.473	.319	.188	.128	.108	.046	.020	.018	.015	.013	.011	.009	.007	.004	.002	.000	.000	.000	.000	.000
22	.489	.330	.195	.137	.115	.049	.020	.018	.015	.013	.011	.009	.007	.004	.002	.000	.000	.000	.000	.000
23	.500	.343	.201	.146	.122	.051	.020	.018	.015	.013	.011	.009	.007	.004	.002	.000	.000	.000	.000	.000
24	.511	.352	.212	.153	.131	.053	.020	.018	.015	.013	.011	.009	.007	.004	.002	.000	.000	.000	.000	.000
25	.522	.361	.217	.166	.137	.058	.020	.018	.015	.013	.011	.009	.007	.004	.002	.000	.000	.000	.000	.000
26	.531	.369	.221	.173	.150	.062	.020	.018	.015	.013	.011	.009	.007	.004	.002	.000	.000	.000	.000	.000
27	.540	.376	.226	.179	.159	.071	.020	.018	.015	.013	.011	.009	.007	.004	.002	.000	.000	.000	.000	.000
28	.549	.383	.230	.186	.166	.080	.022	.018	.015	.013	.011	.009	.007	.004	.002	.000	.000	.000	.000	.000
29	.558	.389	.235	.192	.173	.086	.027	.018	.015	.013	.011	.009	.007	.004	.002	.000	.000	.000	.000	.000
30	.562	.398	.239	.199	.179	.088	.033	.020	.015	.013	.011	.009	.007	.004	.002	.000	.000	.000	.000	.000
31	.566	.405	.246	.206	.186	.091	.038	.024	.015	.013	.011	.009	.007	.004	.002	.000	.000	.000	.000	.000
32	.571	.412	.252	.212	.192	.093	.042	.027	.018	.013	.011	.009	.007	.004	.002	.000	.000	.300	.000	.000
33	.575	.418	.259	.219	.199	.095	.046	.029	.020	.013	.011	.009	.007	.004	.002	.000	.000	.000	.000	.000
34	.580	.425	.265	.226	.206	.097	.051	.031	.022	.013	.011	.009	.007	.004	.002	.000	.000	.000	.000	.000
35	.584	.427	.274	.232	.212	.100	.055	.033	.024	.013	.011	.009	.007	.004	.002	.000	.000	.000	.000	.000
36	.588	.429	.279	.243	.219	.102	.058	.035	.027	.013	.011	.009	.007	.004	.002	.000	.000	.000	.000	.000
37	.593	.431	.283	.250	.230	.104	.060	.038	.029	.013	.011	.009	.007	.004	.002	.000	.000	.000	.000	.000
38	.597	.434	.288	.257	.237	.111	.062	.040	.031	.013	.011	.009	.007	.004	.002	.000	.000	.000	.000	.000
39	.600	.438	.292	.263	.243	.113	.064	.042	.033	.013	.011	.009	.007	.004	.002	.000	.000	.000	.000	.000
40	.602	.442	.296	.268	.252	.115	.071	.049	.035	.013	.011	.009	.007	.004	.002	.000	.000	.000	.000	.000

TOTAL OBSERVATIONS 452

TABLE 2. 1. b. P(W < W\*) I LAUNCH OPPORTUNITIES IN J PERIODS (W\* = 25 M/SEC).  
BASED ON MAXIMUM WIND SPEEDS IN THE 10-15 KM LAYER OVER CAPE KENNEDY, FLORIDA.  
PERIOD OF RECORD JANUARY 1956 - DECEMBER 1963.

CAPE KENNEDY, FLORIDA FEBRUARY  
SPEEDS LESS THAN 030 MPS

PC ( I CONSECUTIVE SUCCESSES IN J PERIODS )

	I																			
J	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
1	.157																			
2	.192	.122																		
3	.219	.150	.093																	
4	.239	.177	.111	.073																
5	.254	.197	.126	.084	.060															
6	.270	.212	.139	.093	.071	.046														
7	.285	.226	.150	.100	.080	.053	.034													
8	.301	.239	.157	.106	.086	.060	.044	.029												
9	.314	.257	.164	.113	.093	.066	.051	.033	.022											
10	.330	.265	.170	.117	.100	.073	.058	.038	.027	.015										
11	.345	.279	.177	.122	.106	.080	.064	.042	.031	.019	.011									
12	.361	.292	.186	.126	.111	.086	.071	.046	.035	.020	.011	.009								
13	.376	.305	.195	.133	.115	.093	.077	.051	.040	.027	.011	.009	.007							
14	.392	.319	.204	.139	.122	.100	.084	.055	.044	.024	.011	.009	.007	.004						
15	.409	.332	.212	.146	.128	.108	.091	.060	.049	.027	.011	.009	.007	.004	.002					
16	.427	.347	.219	.153	.135	.115	.100	.064	.053	.029	.011	.009	.007	.004	.002	.000				
17	.442	.363	.226	.159	.142	.122	.104	.071	.058	.031	.011	.009	.007	.004	.002	.000	.000			
18	.458	.374	.232	.166	.148	.128	.113	.075	.064	.033	.011	.009	.007	.004	.002	.000	.000	.000		
19	.473	.394	.239	.173	.155	.135	.119	.080	.069	.035	.011	.009	.007	.004	.002	.000	.000	.000	.000	
20	.489	.409	.246	.179	.162	.142	.126	.084	.073	.035	.011	.009	.007	.004	.002	.000	.000	.000	.000	.000
21	.504	.425	.252	.186	.168	.148	.133	.088	.077	.035	.011	.009	.007	.004	.002	.000	.000	.000	.000	.000
22	.518	.440	.259	.192	.175	.155	.139	.093	.082	.035	.011	.009	.007	.004	.002	.000	.000	.000	.000	.000
23	.529	.456	.265	.199	.181	.162	.146	.097	.086	.035	.011	.009	.007	.004	.002	.000	.000	.000	.000	.000
24	.542	.467	.272	.206	.188	.169	.153	.102	.091	.035	.011	.009	.007	.004	.002	.000	.000	.000	.000	.000
25	.555	.480	.279	.212	.195	.175	.159	.106	.095	.035	.011	.009	.007	.004	.002	.000	.000	.000	.000	.000
26	.566	.493	.285	.219	.201	.181	.166	.111	.100	.035	.011	.009	.007	.004	.002	.000	.000	.000	.000	.000
27	.577	.504	.292	.226	.208	.188	.173	.115	.104	.035	.011	.009	.007	.004	.002	.000	.000	.000	.000	.000
28	.588	.515	.296	.230	.215	.195	.179	.119	.108	.035	.011	.009	.007	.004	.002	.000	.000	.000	.000	.000
29	.597	.527	.301	.235	.221	.201	.186	.124	.113	.035	.011	.009	.007	.004	.002	.000	.000	.000	.000	.000
30	.604	.538	.305	.239	.226	.208	.192	.126	.117	.035	.011	.009	.007	.004	.002	.000	.000	.000	.000	.000
31	.611	.544	.310	.243	.230	.215	.199	.133	.122	.035	.011	.009	.007	.004	.002	.000	.000	.000	.000	.000
32	.617	.551	.314	.248	.235	.219	.204	.137	.126	.035	.011	.009	.007	.004	.002	.000	.000	.000	.000	.000
33	.624	.558	.319	.252	.239	.223	.212	.142	.131	.035	.011	.009	.007	.004	.002	.000	.000	.000	.000	.000
34	.631	.564	.323	.257	.243	.228	.217	.146	.135	.035	.011	.009	.007	.004	.002	.000	.000	.000	.000	.000
35	.637	.571	.327	.261	.248	.232	.221	.150	.139	.035	.011	.009	.007	.004	.002	.000	.000	.000	.000	.000
36	.644	.577	.332	.265	.252	.237	.224	.155	.144	.035	.011	.009	.007	.004	.002	.000	.000	.000	.000	.000
37	.650	.584	.336	.270	.257	.241	.230	.159	.148	.035	.011	.009	.007	.004	.002	.000	.000	.000	.000	.000
38	.655	.591	.341	.274	.261	.244	.235	.164	.153	.035	.011	.009	.007	.004	.002	.000	.000	.000	.000	.000
39	.659	.597	.345	.279	.265	.250	.239	.168	.157	.035	.011	.009	.007	.004	.002	.000	.000	.000	.000	.000
40	.664	.604	.350	.283	.270	.254	.243	.173	.162	.035	.011	.009	.007	.004	.002	.000	.000	.000	.000	.000

TOTAL OBSERVATIONS 452

TABLE 2. 2.a. P(W < W\*) I CONSECUTIVE LAUNCH OPPORTUNITIES IN J PERIODS (W\* = 30 M/SEC).  
BASED ON MAXIMUM WIND SPEEDS IN THE 10-15 KM LAYER OVER CAPE KENNEDY, FLORIDA.  
PERIOD OF RECORD JANUARY 1955 - DECEMBER 1963.

CAPE KENNEDY, FLORIDA FEBRUARY  
SPEEDS LESS THAN 030 MPS

P ( I SUCCESSES IN J PERIODS )

	I																			
J	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
1	.157																			
2	.192	.122																		
3	.219	.157	.093																	
4	.239	.184	.122	.073																
5	.254	.204	.146	.095	.060															
6	.270	.217	.162	.117	.082	.046														
7	.285	.230	.173	.126	.106	.064	.038													
8	.301	.243	.187	.133	.115	.088	.055	.029												
9	.314	.259	.190	.137	.122	.100	.090	.044	.022											
10	.330	.270	.204	.142	.126	.111	.098	.069	.035	.015										
11	.345	.283	.212	.150	.131	.115	.100	.075	.060	.024	.011									
12	.361	.296	.221	.159	.137	.119	.104	.084	.066	.046	.015	.009								
13	.376	.310	.230	.166	.148	.124	.108	.091	.073	.051	.035	.011	.007							
14	.392	.323	.239	.173	.155	.135	.113	.095	.077	.055	.040	.029	.007	.004						
15	.409	.336	.248	.179	.162	.142	.124	.100	.082	.059	.044	.033	.020	.004	.002					
16	.427	.352	.257	.186	.168	.148	.131	.111	.086	.060	.046	.038	.022	.015	.002	.000				
17	.442	.369	.265	.197	.175	.155	.137	.117	.097	.062	.049	.040	.024	.019	.011	.000	.000			
18	.458	.385	.277	.199	.181	.167	.144	.124	.104	.075	.051	.042	.024	.020	.013	.007	.000	.000		
19	.473	.400	.285	.208	.198	.169	.150	.131	.111	.075	.058	.044	.024	.020	.015	.007	.004	.000	.000	
20	.489	.416	.294	.215	.197	.175	.157	.137	.117	.080	.062	.049	.024	.020	.015	.007	.004	.002	.000	.000
21	.504	.431	.303	.221	.204	.184	.164	.144	.124	.084	.066	.053	.024	.020	.015	.007	.004	.002	.000	.000
22	.518	.449	.312	.228	.210	.190	.173	.150	.131	.088	.071	.058	.024	.020	.015	.007	.004	.002	.000	.000
23	.529	.462	.325	.235	.217	.197	.179	.159	.137	.097	.075	.062	.024	.020	.015	.007	.004	.002	.000	.000
24	.542	.473	.332	.248	.223	.204	.184	.166	.144	.097	.080	.066	.024	.020	.015	.007	.004	.002	.000	.000
25	.555	.487	.338	.252	.239	.210	.192	.173	.153	.104	.084	.071	.024	.020	.015	.007	.004	.002	.000	.000
26	.566	.500	.347	.257	.243	.228	.199	.179	.159	.108	.091	.075	.024	.020	.015	.007	.004	.002	.000	.000
27	.577	.511	.356	.261	.248	.232	.219	.186	.166	.113	.097	.080	.024	.020	.015	.007	.004	.002	.000	.000
28	.588	.522	.363	.265	.252	.237	.223	.208	.173	.117	.104	.084	.024	.020	.015	.007	.004	.002	.000	.000
29	.597	.535	.369	.270	.257	.241	.228	.215	.195	.127	.108	.091	.024	.020	.015	.007	.004	.002	.000	.000
30	.604	.544	.391	.274	.261	.246	.232	.219	.204	.147	.113	.095	.027	.020	.015	.007	.004	.002	.000	.000
31	.611	.551	.397	.283	.265	.250	.237	.223	.208	.153	.131	.107	.027	.022	.015	.007	.004	.002	.000	.000
32	.617	.558	.394	.290	.272	.254	.241	.228	.212	.159	.142	.115	.027	.022	.018	.007	.004	.002	.000	.000
33	.624	.564	.400	.296	.279	.259	.246	.237	.217	.166	.148	.126	.035	.022	.018	.009	.004	.002	.000	.000
34	.631	.571	.407	.301	.288	.263	.250	.237	.221	.173	.155	.133	.042	.029	.018	.011	.004	.002	.000	.000
35	.637	.577	.412	.305	.292	.277	.254	.241	.226	.179	.162	.139	.044	.035	.022	.013	.004	.002	.000	.000
36	.644	.584	.416	.308	.296	.277	.263	.244	.230	.184	.168	.148	.046	.038	.029	.015	.004	.002	.000	.000
37	.650	.591	.420	.310	.299	.281	.268	.254	.235	.197	.175	.153	.049	.040	.031	.022	.004	.002	.000	.000
38	.655	.600	.425	.317	.301	.285	.272	.259	.243	.199	.181	.169	.051	.042	.033	.024	.009	.002	.000	.000
39	.659	.606	.431	.314	.303	.289	.277	.263	.248	.208	.190	.165	.053	.044	.033	.027	.011	.004	.000	.000
40	.664	.613	.438	.316	.305	.290	.279	.268	.252	.217	.199	.177	.055	.046	.038	.029	.013	.007	.000	.000

TOTAL OBSERVATIONS 452

TABLE 2. 2.b. P(W < W\*) I LAUNCH OPPORTUNITIES IN J PERIODS (W\* = 30 M/SEC).  
BASED ON MAXIMUM WIND SPEEDS IN THE 10-15 KM LAYER OVER CAPE KENNEDY, FLORIDA.  
PERIOD OF RECORD JANUARY 1956 - DECEMBER 1963.

CAPE KENNEDY, FLORIDA FEBRUARY  
SPEFDS LESS THAN 035 MPS

PC ( I CONSECUTIVE SUCCESSES IN J PERIODS )

J	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
1	.219																			
2	.263	.175																		
3	.294	.206	.144																	
4	.321	.235	.173	.113																
5	.343	.257	.199	.133	.091															
6	.365	.277	.223	.150	.106	.073														
7	.385	.294	.243	.166	.119	.084	.060													
8	.405	.312	.241	.181	.131	.093	.066	.051												
9	.425	.330	.279	.192	.142	.100	.073	.058	.042											
10	.447	.345	.299	.201	.153	.106	.077	.064	.049	.033										
11	.465	.363	.316	.212	.162	.113	.082	.069	.055	.038	.027									
12	.482	.381	.332	.223	.170	.119	.086	.073	.060	.042	.029	.022								
13	.500	.398	.347	.235	.179	.126	.091	.077	.064	.044	.031	.024	.018							
14	.518	.416	.363	.243	.188	.133	.097	.082	.069	.046	.031	.027	.020	.013						
15	.535	.434	.378	.252	.197	.139	.104	.088	.073	.049	.031	.027	.022	.015	.009					
16	.551	.454	.394	.261	.204	.146	.111	.095	.080	.051	.031	.027	.022	.018	.011	.004				
17	.564	.469	.412	.270	.210	.153	.117	.102	.086	.055	.031	.027	.022	.019	.013	.007	.002			
18	.577	.485	.429	.279	.217	.159	.124	.108	.093	.060	.033	.027	.022	.018	.013	.009	.004	.000		
19	.591	.500	.445	.288	.223	.166	.131	.115	.100	.064	.035	.027	.022	.018	.013	.009	.007	.000	.000	
20	.604	.515	.460	.296	.230	.173	.137	.122	.106	.069	.038	.027	.022	.018	.013	.009	.007	.000	.000	.000
21	.615	.531	.476	.305	.237	.179	.144	.128	.113	.073	.040	.027	.022	.018	.013	.009	.007	.000	.000	.000
22	.624	.544	.491	.314	.243	.186	.150	.135	.119	.077	.042	.027	.022	.018	.013	.009	.007	.000	.000	.000
23	.631	.555	.504	.323	.250	.192	.157	.142	.126	.082	.044	.027	.022	.018	.013	.009	.007	.000	.000	.000
24	.637	.566	.513	.332	.257	.199	.164	.148	.133	.086	.046	.027	.022	.018	.013	.009	.007	.000	.000	.000
25	.642	.577	.522	.341	.263	.206	.170	.155	.139	.091	.049	.027	.022	.018	.013	.009	.007	.000	.000	.000
26	.646	.586	.533	.347	.270	.212	.177	.162	.146	.095	.051	.027	.022	.018	.013	.009	.007	.000	.000	.000
27	.650	.595	.542	.356	.277	.219	.184	.168	.153	.100	.053	.027	.022	.018	.013	.009	.007	.000	.000	.000
28	.655	.604	.551	.363	.283	.226	.190	.175	.159	.104	.055	.027	.022	.018	.013	.009	.007	.000	.000	.000
29	.659	.613	.560	.369	.288	.235	.197	.181	.166	.108	.058	.027	.022	.018	.013	.009	.007	.000	.000	.000
30	.664	.622	.569	.376	.292	.241	.204	.188	.173	.113	.060	.027	.022	.018	.013	.009	.007	.000	.000	.000
31	.668	.628	.577	.383	.296	.248	.210	.195	.179	.117	.062	.027	.022	.018	.013	.009	.007	.000	.000	.000
32	.673	.635	.586	.389	.301	.254	.215	.201	.186	.122	.064	.027	.022	.018	.013	.009	.007	.000	.000	.000
33	.677	.642	.593	.396	.305	.261	.219	.208	.192	.126	.066	.027	.022	.018	.013	.009	.007	.000	.000	.000
34	.681	.648	.600	.403	.310	.268	.223	.212	.196	.131	.069	.027	.022	.018	.013	.009	.007	.000	.000	.000
35	.686	.655	.606	.407	.314	.274	.228	.217	.206	.135	.071	.027	.022	.018	.013	.009	.007	.000	.000	.000
36	.690	.662	.613	.412	.319	.281	.232	.221	.210	.139	.073	.027	.022	.018	.013	.009	.007	.000	.000	.000
37	.697	.668	.619	.416	.323	.288	.237	.226	.215	.144	.075	.027	.022	.018	.013	.009	.007	.000	.000	.000
38	.704	.675	.626	.420	.327	.294	.241	.230	.219	.146	.077	.027	.022	.018	.013	.009	.007	.000	.000	.000
39	.710	.681	.633	.425	.332	.301	.246	.235	.223	.148	.080	.027	.022	.018	.013	.009	.007	.000	.000	.000
40	.717	.686	.639	.429	.336	.308	.250	.239	.228	.150	.082	.027	.022	.018	.013	.009	.007	.000	.000	.000

TOTAL OBSERVATIONS 452

TABLE 2. 3.a. P(W < W\*) I CONSECUTIVE LAUNCH OPPORTUNITIES IN J PERIODS (W\* = 35 M/SEC).  
BASED ON MAXIMUM WIND SPEEDS IN THE 10-15 KM LAYER OVER CAPE KENNEDY, FLORIDA.  
PERIOD OF RECORD JANUARY 1956 - DECEMBER 1963.

CAPE KENNEDY, FLORIDA FEBRUARY  
SPEEDS LESS THAN 035 MPS

P ( I SUCCESSES IN J PERIODS )

J	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
1	.219																			
2	.263	.175																		
3	.294	.217	.144																	
4	.321	.246	.186	.113																
5	.343	.272	.212	.150	.091															
6	.365	.292	.237	.173	.126	.073														
7	.385	.314	.254	.190	.146	.106	.060													
8	.405	.334	.277	.204	.157	.124	.091	.051												
9	.423	.352	.296	.223	.164	.133	.108	.082	.042											
10	.447	.369	.312	.246	.175	.137	.119	.097	.073	.033										
11	.465	.394	.327	.261	.192	.144	.124	.108	.086	.067	.027									
12	.482	.416	.345	.277	.201	.162	.178	.113	.097	.073	.051	.022								
13	.500	.431	.367	.292	.212	.170	.144	.117	.102	.084	.058	.044	.018							
14	.518	.447	.383	.312	.223	.181	.150	.133	.106	.088	.066	.049	.038	.013						
15	.535	.465	.396	.327	.241	.190	.159	.139	.122	.092	.071	.053	.042	.031	.009					
16	.551	.482	.414	.338	.259	.204	.168	.146	.128	.108	.075	.058	.044	.035	.024	.004				
17	.564	.500	.431	.354	.270	.221	.179	.143	.135	.115	.091	.062	.046	.034	.029	.018	.002			
18	.577	.515	.449	.367	.285	.232	.195	.162	.142	.127	.100	.075	.049	.040	.031	.020	.013	.000		
19	.591	.529	.467	.383	.276	.248	.204	.175	.150	.128	.108	.082	.058	.042	.033	.020	.015	.007	.000	
20	.604	.542	.480	.398	.312	.259	.217	.181	.164	.137	.117	.088	.062	.044	.035	.020	.015	.009	.002	.000
21	.615	.555	.493	.407	.334	.270	.226	.192	.170	.150	.126	.097	.066	.053	.040	.020	.015	.011	.002	.000
22	.624	.566	.507	.416	.345	.292	.235	.199	.181	.157	.139	.104	.075	.058	.044	.020	.015	.011	.002	.000
23	.631	.577	.518	.425	.356	.303	.254	.206	.188	.168	.146	.115	.082	.066	.049	.020	.015	.011	.002	.000
24	.637	.586	.531	.434	.367	.312	.263	.226	.195	.175	.157	.119	.093	.073	.058	.020	.015	.011	.002	.000
25	.642	.595	.542	.447	.378	.321	.270	.232	.217	.181	.164	.128	.097	.084	.064	.024	.015	.011	.002	.000
26	.646	.602	.553	.460	.382	.330	.277	.237	.223	.204	.170	.135	.104	.088	.075	.029	.018	.011	.002	.000
27	.650	.608	.562	.473	.405	.341	.283	.241	.228	.217	.197	.162	.111	.093	.080	.038	.022	.011	.002	.000
28	.655	.615	.571	.485	.418	.352	.292	.246	.232	.217	.204	.170	.117	.097	.084	.040	.031	.013	.002	.000
29	.659	.622	.577	.494	.429	.363	.301	.252	.237	.221	.208	.177	.148	.102	.088	.042	.033	.020	.004	.000
30	.664	.628	.584	.502	.440	.376	.310	.259	.241	.224	.212	.181	.157	.131	.093	.044	.035	.020	.013	.000
31	.668	.635	.591	.509	.445	.394	.319	.265	.246	.230	.217	.186	.164	.139	.119	.046	.038	.020	.015	.007
32	.673	.647	.597	.515	.449	.400	.338	.277	.250	.235	.221	.190	.170	.146	.128	.069	.040	.020	.015	.009
33	.677	.648	.604	.522	.454	.407	.350	.288	.254	.239	.226	.195	.177	.153	.135	.075	.060	.020	.015	.011
34	.681	.655	.611	.529	.458	.414	.358	.299	.265	.243	.230	.199	.184	.159	.142	.080	.066	.035	.015	.011
35	.686	.662	.617	.535	.462	.420	.365	.305	.277	.257	.235	.206	.190	.166	.148	.084	.071	.040	.029	.011
36	.690	.668	.624	.542	.467	.425	.372	.312	.283	.265	.241	.212	.197	.175	.155	.088	.075	.042	.033	.022
37	.697	.675	.631	.549	.471	.429	.376	.319	.290	.272	.254	.221	.204	.179	.164	.093	.080	.044	.035	.027
38	.704	.679	.639	.555	.476	.434	.381	.323	.296	.279	.259	.237	.212	.184	.170	.104	.084	.046	.038	.029
39	.710	.684	.644	.566	.480	.438	.385	.327	.301	.285	.265	.243	.228	.190	.175	.106	.097	.049	.040	.031
40	.717	.688	.648	.571	.491	.442	.389	.332	.305	.290	.272	.250	.235	.204	.181	.108	.100	.062	.042	.033

TOTAL OBSERVATIONS 452

TABLE 2. 3.b. P(W < W\*) I LAUNCH OPPORTUNITIES IN J PERIODS (W\* = 35 M/SEC).  
BASED ON MAXIMUM WIND SPEEDS IN THE 10-15 KM LAYER OVER CAPE KENNEDY, FLORIDA.  
PERIOD OF RECORD JANUARY 1956 - DECEMBER 1963.



CAPE KENNEDY, FLORIDA FEBRUARY  
SPEEDS LESS THAN 40 MPS

PC ( 1 CONSECUTIVE SUCCESSSES IN J PERIODS )

	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
1	.312																			
2	.369	.248																		
3	.420	.283	.208																	
4	.460	.321	.239	.170																
5	.498	.354	.270	.186	.148															
6	.527	.383	.301	.201	.166	.126														
7	.555	.409	.327	.217	.179	.139	.104													
8	.577	.427	.352	.232	.195	.153	.111	.085												
9	.600	.449	.376	.248	.210	.166	.116	.100	.086											
10	.617	.471	.398	.263	.226	.179	.119	.104	.091	.077										
11	.633	.491	.423	.279	.243	.192	.124	.108	.095	.082	.067									
12	.648	.509	.447	.294	.259	.208	.128	.113	.100	.088	.073	.060								
13	.664	.524	.469	.310	.274	.223	.135	.117	.104	.091	.077	.064	.051							
14	.679	.540	.489	.325	.288	.239	.147	.124	.108	.095	.082	.069	.053	.044						
15	.695	.559	.507	.341	.301	.254	.148	.131	.115	.100	.086	.073	.055	.046	.038					
16	.710	.573	.527	.354	.314	.268	.155	.137	.122	.106	.091	.077	.058	.049	.040	.031				
17	.723	.588	.546	.369	.327	.281	.162	.144	.128	.113	.097	.082	.060	.051	.042	.033	.024			
18	.737	.602	.564	.385	.348	.294	.163	.140	.125	.112	.094	.088	.062	.053	.044	.035	.027	.018		
19	.750	.615	.582	.400	.350	.308	.174	.157	.142	.124	.111	.095	.064	.055	.046	.039	.029	.018	.013	
20	.761	.628	.597	.416	.361	.319	.181	.164	.148	.133	.117	.102	.066	.058	.049	.040	.031	.018	.013	.009
21	.770	.647	.613	.431	.372	.330	.188	.170	.155	.139	.124	.108	.069	.060	.051	.042	.033	.018	.013	.009
22	.779	.655	.628	.447	.383	.341	.195	.177	.162	.144	.131	.115	.071	.062	.053	.044	.035	.018	.013	.009
23	.785	.664	.642	.462	.394	.352	.201	.184	.168	.153	.137	.122	.073	.064	.055	.046	.039	.018	.013	.009
24	.792	.677	.653	.476	.405	.363	.208	.190	.175	.159	.144	.128	.075	.066	.058	.049	.040	.018	.013	.009
25	.796	.688	.662	.489	.416	.374	.215	.197	.181	.164	.150	.135	.077	.069	.060	.051	.042	.018	.013	.009
26	.801	.697	.670	.502	.425	.385	.221	.204	.188	.173	.157	.142	.080	.071	.062	.053	.044	.018	.013	.009
27	.805	.706	.677	.515	.436	.396	.228	.210	.195	.179	.164	.148	.082	.073	.064	.055	.046	.018	.013	.009
28	.810	.715	.684	.527	.447	.407	.235	.217	.201	.184	.170	.155	.084	.075	.066	.058	.049	.018	.013	.009
29	.814	.721	.690	.538	.456	.418	.243	.223	.208	.192	.177	.162	.086	.077	.069	.060	.051	.018	.013	.009
30	.819	.728	.697	.546	.465	.427	.250	.232	.215	.199	.184	.168	.088	.080	.071	.062	.053	.018	.013	.009
31	.823	.735	.704	.555	.471	.436	.257	.241	.223	.204	.190	.175	.091	.082	.073	.064	.055	.014	.013	.009
32	.827	.741	.710	.562	.478	.442	.263	.248	.232	.214	.197	.181	.093	.084	.075	.066	.058	.018	.013	.009
33	.832	.748	.717	.569	.485	.449	.270	.254	.241	.223	.204	.188	.095	.086	.077	.069	.060	.018	.013	.009
34	.836	.754	.723	.575	.489	.456	.277	.261	.248	.232	.210	.195	.097	.088	.080	.071	.062	.018	.013	.009
35	.841	.761	.730	.582	.493	.457	.283	.268	.254	.241	.217	.201	.100	.091	.082	.073	.064	.018	.013	.009
36	.845	.768	.737	.588	.498	.467	.290	.274	.261	.248	.223	.209	.102	.093	.084	.075	.066	.018	.013	.009
37	.850	.774	.743	.595	.502	.471	.297	.281	.268	.254	.230	.214	.104	.095	.086	.077	.069	.018	.013	.009
38	.854	.781	.750	.602	.517	.476	.303	.288	.274	.261	.235	.221	.106	.097	.088	.080	.071	.018	.013	.009
39	.858	.788	.757	.608	.511	.480	.310	.294	.281	.267	.237	.224	.108	.100	.091	.082	.073	.014	.013	.009
40	.861	.794	.763	.615	.515	.485	.314	.301	.284	.274	.243	.232	.111	.102	.093	.084	.075	.018	.013	.009
TOTAL OBSERVATIONS	442																			

TABLE 3. 4a. P(W < W0) 1 CONSECUTIVE LAUNCH OPPORTUNITIES IN J PERIODS (W0 = 40 M/SEC),  
BASED ON MAXIMUM WIND SPEEDS IN THE 10-15 KM LAYER OVER CAPE KENNEDY, FLORIDA,  
PERIOD OF RECORD JANUARY 1956 - DECEMBER 1963.

CAPE KENNEDY, FLORIDA FEBRUARY

SPEEDS LESS THAN 40 KNOTS

PERIODS (PERCENTS IN PARENTHESES)

	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
1	.312																			
2	.369	.249																		
3	.420	.294	.278																	
4	.467	.341	.292	.170																
5	.499	.376	.272	.204	.164															
6	.527	.416	.323	.235	.174	.124														
7	.555	.440	.343	.261	.207	.155	.126													
8	.577	.471	.385	.299	.226	.184	.126	.095												
9	.600	.496	.416	.321	.257	.206	.164	.111	.086											
10	.617	.522	.440	.352	.274	.237	.167	.129	.100	.077										
11	.633	.540	.471	.378	.299	.254	.192	.142	.115	.088	.069									
12	.648	.558	.487	.414	.323	.277	.210	.170	.126	.100	.080	.060								
13	.664	.575	.502	.420	.358	.301	.229	.189	.155	.104	.088	.071	.051							
14	.679	.593	.520	.445	.374	.334	.254	.201	.173	.131	.095	.077	.060	.044						
15	.695	.608	.540	.462	.397	.347	.267	.223	.186	.144	.119	.094	.064	.051	.038					
16	.710	.624	.555	.482	.405	.354	.312	.249	.206	.155	.131	.108	.071	.055	.042	.031				
17	.723	.642	.571	.498	.424	.369	.323	.251	.241	.170	.139	.119	.095	.060	.046	.033	.024			
18	.737	.657	.586	.513	.438	.385	.338	.290	.268	.204	.150	.128	.108	.087	.051	.035	.027	.018		
19	.750	.670	.606	.531	.449	.394	.354	.303	.277	.237	.179	.139	.117	.097	.049	.038	.029	.014	.013	
20	.761	.684	.619	.549	.465	.405	.349	.321	.288	.241	.206	.168	.128	.104	.086	.049	.031	.018	.013	.009
21	.770	.699	.633	.560	.480	.420	.370	.336	.303	.257	.217	.195	.157	.117	.095	.066	.038	.014	.013	.009
22	.779	.710	.650	.571	.497	.436	.394	.347	.316	.270	.219	.201	.184	.144	.106	.077	.051	.020	.013	.009
23	.785	.723	.662	.588	.493	.449	.405	.363	.327	.285	.232	.208	.190	.173	.135	.091	.040	.029	.013	.009
24	.792	.735	.675	.597	.507	.460	.418	.374	.343	.301	.241	.221	.197	.177	.144	.122	.071	.033	.020	.009
25	.796	.743	.688	.608	.515	.476	.429	.387	.354	.321	.262	.228	.210	.181	.148	.155	.100	.040	.024	.013
26	.801	.750	.699	.617	.527	.485	.447	.398	.367	.334	.270	.235	.217	.192	.173	.159	.137	.064	.029	.018
27	.805	.754	.710	.624	.538	.496	.454	.416	.378	.344	.285	.244	.223	.197	.184	.164	.142	.104	.051	.020
28	.810	.759	.717	.635	.549	.504	.467	.423	.398	.365	.308	.254	.235	.201	.188	.175	.146	.108	.093	.038
29	.814	.763	.723	.642	.552	.513	.476	.431	.405	.387	.323	.270	.243	.210	.192	.179	.157	.113	.097	.077
30	.819	.768	.730	.648	.571	.527	.485	.440	.412	.394	.352	.279	.259	.217	.201	.184	.162	.122	.104	.082
31	.823	.772	.737	.655	.582	.535	.499	.449	.418	.400	.361	.305	.265	.232	.210	.192	.166	.124	.113	.091
32	.827	.777	.743	.662	.593	.546	.507	.462	.425	.407	.369	.316	.285	.239	.226	.201	.175	.126	.115	.102
33	.832	.781	.750	.666	.604	.560	.515	.473	.434	.414	.378	.327	.292	.259	.232	.215	.184	.133	.117	.106
34	.836	.785	.757	.670	.613	.571	.529	.485	.442	.420	.387	.336	.301	.265	.252	.221	.197	.139	.122	.108
35	.841	.790	.763	.675	.619	.582	.538	.502	.451	.427	.396	.345	.308	.272	.259	.246	.204	.150	.126	.113
36	.845	.794	.770	.679	.624	.593	.546	.513	.467	.434	.405	.354	.314	.279	.245	.252	.232	.155	.137	.115
37	.850	.799	.777	.684	.628	.597	.560	.524	.480	.449	.414	.363	.321	.285	.272	.259	.241	.181	.142	.124
38	.854	.803	.783	.688	.633	.602	.566	.542	.487	.458	.423	.372	.330	.292	.279	.265	.248	.192	.166	.126
39	.858	.809	.790	.692	.637	.606	.573	.553	.500	.465	.436	.378	.338	.301	.285	.272	.254	.201	.177	.144
40	.861	.814	.796	.697	.647	.611	.577	.562	.513	.474	.440	.392	.357	.308	.294	.279	.261	.213	.186	.153
TOTAL OBSERVATIONS	452																			

TABLE 2. 4.b. P(W < W\*) I LAUNCH OPPORTUNITIES IN J PERIODS (W\* = 40 M/SEC).  
BASED ON MAXIMUM WIND SPEEDS IN THE 10-15 KM LAYER OVER CAPE KENNEDY, FLORIDA.

PERIOD OF RECORD JANUARY 1956 - DECEMBER 1963.

CAPE KENNEDY, FLORIDA FEBRUARY  
 SPEEDS LESS THAN 45 MPH

PERIOD OF CONSECUTIVE LAUNCH OPPORTUNITIES IN J PERIODS

	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
1	.475																			
2	.491	.356																		
3	.546	.403	.374																	
4	.591	.449	.345	.268																
5	.628	.489	.383	.248	.232															
6	.657	.524	.420	.325	.257	.201														
7	.691	.553	.441	.354	.281	.223	.173													
8	.701	.577	.480	.383	.306	.246	.170	.148												
9	.717	.600	.504	.409	.330	.268	.208	.150	.131											
10	.730	.619	.527	.436	.354	.290	.226	.170	.137	.117										
11	.741	.637	.546	.460	.378	.312	.243	.181	.144	.124	.104									
12	.754	.650	.566	.485	.403	.336	.261	.192	.157	.131	.108	.093								
13	.768	.662	.584	.507	.423	.361	.281	.206	.151	.137	.113	.097	.082							
14	.781	.673	.597	.529	.442	.383	.301	.217	.164	.144	.117	.102	.086	.071						
15	.794	.686	.608	.549	.460	.400	.321	.230	.173	.150	.122	.106	.091	.075	.060					
16	.808	.699	.621	.564	.478	.418	.341	.243	.181	.156	.126	.111	.095	.080	.064	.049				
17	.819	.712	.635	.582	.478	.434	.358	.257	.190	.168	.133	.115	.100	.084	.069	.053	.038			
18	.830	.726	.648	.600	.509	.449	.376	.270	.199	.177	.134	.122	.104	.088	.073	.058	.042	.027		
19	.838	.736	.661	.617	.522	.465	.397	.283	.208	.186	.146	.128	.108	.093	.077	.062	.046	.029	.020	
20	.847	.752	.675	.633	.535	.476	.407	.286	.217	.195	.153	.135	.113	.097	.082	.066	.051	.031	.022	.013
21	.856	.763	.688	.648	.549	.487	.423	.310	.226	.204	.159	.142	.111	.102	.086	.071	.055	.033	.024	.015
22	.867	.774	.699	.662	.562	.498	.434	.323	.235	.212	.166	.148	.122	.106	.091	.075	.060	.035	.027	.018
23	.878	.785	.710	.673	.573	.509	.445	.334	.243	.221	.173	.155	.124	.111	.095	.080	.064	.038	.029	.020
24	.887	.794	.721	.684	.582	.520	.456	.347	.252	.230	.179	.162	.131	.115	.100	.084	.069	.040	.031	.022
25	.894	.808	.730	.695	.591	.529	.465	.358	.261	.239	.186	.168	.135	.119	.104	.088	.073	.042	.033	.024
26	.900	.816	.739	.706	.600	.540	.471	.369	.268	.248	.182	.175	.139	.124	.108	.093	.077	.044	.035	.027
27	.907	.825	.743	.715	.608	.551	.480	.376	.274	.257	.199	.181	.144	.128	.113	.097	.082	.046	.038	.029
28	.914	.834	.748	.721	.617	.562	.489	.385	.281	.263	.206	.188	.148	.133	.117	.102	.086	.049	.040	.031
29	.920	.841	.752	.726	.624	.573	.498	.394	.288	.270	.212	.195	.153	.137	.122	.106	.091	.051	.042	.033
30	.925	.847	.757	.730	.628	.580	.507	.403	.294	.276	.219	.201	.157	.142	.126	.111	.095	.053	.044	.035
31	.929	.854	.761	.735	.633	.584	.511	.412	.301	.285	.229	.208	.162	.146	.131	.115	.100	.055	.046	.038
32	.934	.858	.765	.739	.637	.588	.513	.418	.308	.292	.237	.217	.166	.150	.135	.119	.104	.058	.049	.040
33	.938	.863	.772	.743	.639	.593	.511	.425	.314	.298	.243	.220	.173	.155	.135	.124	.108	.060	.051	.042
34	.942	.867	.779	.748	.642	.597	.514	.431	.321	.305	.250	.235	.179	.162	.144	.128	.113	.062	.053	.044
35	.947	.872	.785	.752	.644	.600	.520	.438	.327	.312	.257	.241	.186	.168	.150	.133	.117	.064	.055	.046
36	.951	.876	.792	.757	.646	.602	.522	.445	.334	.319	.263	.248	.192	.175	.157	.139	.122	.066	.058	.049
37	.956	.881	.799	.761	.648	.604	.524	.451	.341	.325	.270	.254	.199	.181	.164	.146	.128	.069	.060	.051
38	.960	.885	.805	.768	.650	.606	.527	.458	.347	.332	.277	.261	.206	.188	.170	.153	.135	.073	.062	.053
39	.962	.887	.812	.774	.653	.608	.529	.465	.354	.338	.283	.268	.212	.195	.177	.159	.142	.077	.067	.055
40	.965	.894	.816	.771	.655	.611	.531	.471	.361	.345	.290	.274	.219	.201	.184	.166	.148	.082	.071	.060

TOTAL OBSERVATIONS 452

TABLE 2. 5.a. P(W < W0) 1 CONSECUTIVE LAUNCH OPPORTUNITIES IN J PERIODS (W0 = 45 M/SEC).  
 BASED ON MAXIMUM WIND SPEEDS IN THE 10-15 KM LAYER OVER CAPE KENNEDY, FLORIDA.  
 PERIOD OF RECORD JANUARY 1956 - DECEMBER 1963.

CAPE KENNEDY, FLORIDA FEBRUARY  
SPEEDS LESS THAN 045 MPH

P ( I SUCCESSSES IN J PERIODS )

	I																			
J	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
1	.425																			
2	.491	.356																		
3	.546	.414	.308																	
4	.591	.467	.365	.268																
5	.628	.513	.409	.321	.272															
6	.657	.558	.454	.365	.281	.201														
7	.681	.595	.499	.414	.323	.246	.173													
8	.701	.633	.518	.454	.369	.290	.208	.148												
9	.717	.664	.551	.487	.407	.338	.248	.175	.131											
10	.730	.686	.586	.513	.445	.374	.299	.206	.153	.117										
11	.741	.704	.615	.546	.469	.418	.332	.254	.177	.137	.104									
12	.754	.715	.639	.571	.507	.442	.383	.283	.226	.156	.119	.093								
13	.758	.726	.659	.591	.529	.485	.407	.334	.250	.201	.133	.106	.082							
14	.781	.739	.675	.611	.542	.513	.451	.358	.299	.223	.173	.119	.093	.071						
15	.794	.752	.688	.633	.553	.529	.487	.403	.321	.272	.188	.159	.106	.080	.060					
16	.808	.765	.701	.657	.562	.540	.507	.445	.358	.294	.232	.175	.146	.091	.069	.049				
17	.819	.781	.715	.675	.580	.549	.520	.467	.407	.327	.250	.219	.162	.128	.080	.058	.038			
18	.830	.794	.730	.688	.600	.560	.531	.478	.434	.378	.277	.237	.206	.144	.115	.069	.046	.027		
19	.838	.808	.746	.704	.619	.569	.544	.487	.445	.412	.321	.263	.223	.188	.128	.104	.055	.033	.020	
20	.847	.819	.757	.721	.637	.580	.555	.498	.454	.423	.354	.305	.250	.208	.168	.117	.091	.038	.027	.013
21	.856	.827	.768	.735	.657	.591	.566	.509	.465	.431	.374	.332	.290	.237	.186	.155	.104	.071	.029	.020
22	.867	.838	.774	.750	.670	.606	.575	.520	.476	.442	.387	.352	.314	.274	.215	.170	.142	.086	.055	.022
23	.878	.850	.783	.757	.688	.624	.584	.529	.487	.454	.400	.365	.336	.294	.254	.195	.157	.126	.069	.044
24	.887	.863	.792	.763	.692	.650	.595	.538	.496	.465	.414	.378	.350	.319	.274	.232	.179	.142	.108	.058
25	.894	.874	.803	.772	.697	.659	.619	.549	.504	.473	.425	.396	.361	.332	.301	.250	.212	.162	.126	.097
26	.900	.883	.814	.781	.704	.666	.626	.575	.513	.482	.431	.407	.383	.343	.316	.277	.226	.190	.146	.117
27	.907	.889	.825	.790	.710	.675	.633	.582	.538	.491	.438	.414	.394	.369	.327	.292	.250	.201	.173	.137
28	.914	.896	.832	.801	.719	.681	.644	.588	.544	.513	.447	.420	.403	.378	.358	.305	.261	.223	.181	.164
29	.920	.903	.838	.808	.730	.690	.655	.595	.551	.520	.467	.429	.409	.389	.365	.343	.272	.230	.201	.173
30	.925	.912	.845	.812	.739	.701	.666	.604	.558	.527	.476	.445	.418	.396	.376	.352	.312	.237	.210	.188
31	.929	.916	.856	.816	.746	.710	.677	.615	.569	.533	.485	.454	.429	.405	.383	.365	.325	.272	.219	.195
32	.934	.920	.863	.825	.752	.717	.686	.631	.580	.547	.493	.462	.436	.414	.392	.372	.341	.285	.254	.204
33	.938	.925	.869	.830	.761	.726	.692	.646	.591	.553	.504	.471	.442	.423	.398	.381	.352	.296	.268	.239
34	.942	.929	.876	.834	.765	.732	.706	.657	.606	.558	.520	.482	.449	.429	.407	.387	.365	.308	.277	.250
35	.947	.936	.883	.838	.770	.735	.715	.675	.617	.569	.527	.500	.458	.436	.414	.396	.374	.323	.288	.261
36	.951	.942	.889	.843	.774	.737	.717	.690	.635	.577	.535	.509	.476	.445	.420	.403	.385	.334	.301	.277
37	.956	.947	.898	.847	.779	.739	.719	.695	.655	.593	.542	.520	.485	.462	.429	.409	.392	.347	.312	.290
38	.960	.951	.905	.854	.783	.741	.721	.699	.662	.613	.555	.527	.498	.471	.447	.418	.398	.354	.327	.299
39	.962	.958	.912	.861	.788	.743	.723	.704	.668	.622	.573	.538	.504	.485	.456	.434	.407	.361	.338	.310
40	.965	.962	.920	.867	.792	.746	.726	.706	.677	.628	.582	.555	.513	.489	.471	.442	.423	.369	.347	.321

TOTAL OBSERVATIONS 452

TABLE 2. 5.b. P(W < W\*) I LAUNCH OPPORTUNITIES IN J PERIODS (W\* = 45 M/SEC).  
BASED ON MAXIMUM WIND SPEEDS IN THE 10-15 KM LAYER OVER CAPE KENNEDY, FLORIDA.  
PERIOD OF RECORD JANUARY 1956 - DECEMBER 1963.

CAPE KENNEDY, FLORIDA FEBRUARY  
SPEEDS LESS THAN 050 MPS

PC ( I CONSECUTIVE SUCCESSSES IN J PERIODS )

	I																			
J	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
1	.538																			
2	.608	.467																		
3	.655	.520	.414																	
4	.692	.571	.458	.369																
5	.719	.608	.502	.407	.330															
6	.741	.639	.544	.445	.367	.290														
7	.757	.666	.582	.482	.405	.321	.254													
8	.772	.686	.613	.520	.442	.352	.281	.223												
9	.788	.704	.637	.551	.480	.393	.308	.246	.199											
10	.803	.721	.657	.580	.518	.414	.334	.269	.212	.184										
11	.819	.737	.673	.602	.546	.445	.361	.290	.226	.197	.168									
12	.832	.750	.688	.622	.573	.476	.387	.312	.239	.210	.181	.153								
13	.843	.763	.704	.639	.593	.500	.414	.334	.252	.223	.195	.166	.137							
14	.852	.772	.717	.657	.611	.522	.440	.356	.265	.237	.208	.179	.150	.122						
15	.861	.783	.730	.673	.626	.538	.465	.378	.279	.250	.221	.192	.164	.135	.106					
16	.869	.794	.739	.688	.639	.551	.487	.400	.292	.263	.235	.206	.177	.148	.119	.091				
17	.878	.805	.748	.706	.653	.560	.502	.420	.305	.277	.248	.219	.190	.162	.133	.102	.077			
18	.887	.816	.757	.717	.668	.569	.518	.438	.319	.290	.261	.232	.204	.175	.146	.113	.088	.064		
19	.896	.827	.765	.728	.684	.580	.531	.454	.332	.303	.274	.246	.217	.188	.159	.124	.100	.075	.051	
20	.905	.838	.774	.739	.695	.591	.544	.469	.345	.316	.288	.259	.230	.201	.173	.135	.111	.086	.058	.042
21	.914	.850	.783	.750	.706	.602	.558	.482	.356	.330	.301	.272	.243	.215	.186	.146	.122	.097	.064	.049
22	.920	.861	.792	.761	.717	.613	.571	.496	.367	.343	.314	.285	.257	.228	.199	.157	.133	.108	.071	.055
23	.927	.872	.801	.770	.728	.624	.584	.509	.376	.354	.327	.299	.270	.241	.212	.168	.144	.119	.077	.062
24	.934	.883	.810	.781	.737	.635	.597	.522	.385	.365	.341	.312	.283	.254	.226	.179	.155	.131	.084	.069
25	.938	.894	.816	.792	.748	.644	.606	.535	.394	.374	.352	.325	.296	.268	.239	.190	.166	.142	.091	.075
26	.940	.900	.823	.803	.759	.655	.613	.546	.403	.383	.363	.338	.310	.281	.252	.201	.177	.153	.097	.082
27	.942	.907	.827	.812	.770	.666	.627	.555	.409	.392	.372	.350	.323	.294	.265	.212	.188	.164	.104	.088
28	.945	.914	.832	.819	.781	.675	.631	.566	.416	.398	.381	.361	.336	.308	.279	.223	.199	.175	.111	.095
29	.947	.920	.836	.825	.788	.684	.639	.577	.425	.405	.387	.369	.347	.321	.292	.235	.210	.186	.117	.102
30	.949	.927	.841	.832	.794	.690	.646	.588	.434	.414	.394	.376	.358	.334	.305	.246	.221	.197	.124	.108
31	.951	.934	.845	.836	.801	.695	.650	.600	.442	.423	.403	.383	.365	.345	.319	.257	.232	.208	.131	.115
32	.954	.938	.850	.841	.808	.699	.655	.606	.451	.431	.412	.392	.372	.354	.332	.268	.243	.219	.137	.122
33	.956	.942	.854	.845	.812	.704	.659	.613	.460	.440	.420	.400	.381	.361	.341	.279	.254	.230	.144	.128
34	.958	.947	.858	.850	.816	.708	.664	.619	.469	.449	.429	.409	.389	.369	.350	.288	.265	.241	.150	.135
35	.960	.951	.863	.854	.821	.710	.668	.626	.478	.458	.438	.418	.398	.378	.358	.294	.274	.252	.157	.142
36	.962	.956	.867	.858	.825	.712	.673	.633	.487	.467	.447	.427	.407	.387	.367	.303	.283	.261	.164	.148
37	.965	.958	.872	.863	.830	.715	.675	.637	.496	.476	.456	.436	.416	.396	.376	.312	.292	.270	.170	.155
38	.967	.960	.876	.867	.834	.717	.677	.642	.504	.485	.465	.445	.425	.405	.385	.321	.301	.281	.177	.162
39	.969	.962	.881	.872	.838	.719	.679	.644	.513	.493	.473	.454	.434	.414	.394	.330	.310	.290	.184	.168
40	.971	.965	.885	.876	.843	.721	.681	.646	.522	.502	.482	.462	.442	.423	.403	.338	.319	.299	.190	.175

TOTAL OBSERVATIONS 452

TABLE 2. 6.a. P(W < W\*) I CONSECUTIVE LAUNCH OPPORTUNITIES IN J PERIODS (W\* = 50 M/SEC).  
BASED ON MAXIMUM WIND SPEEDS IN THE 10-15 KM LAYER OVER CAPE KENNEDY, FLORIDA.  
PERIOD OF RECORD JANUARY 1956 - DECEMBER 1963.

CAPE KENNEDY, FLORIDA FEBRUARY  
SPEEDS LESS THAN 50 MPH

P ( I SUCCESSFUL I J PERIODS )

J	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
1	.538																			
2	.608	.467																		
3	.655	.542	.414																	
4	.692	.593	.489	.369																
5	.719	.639	.542	.447	.337															
6	.741	.670	.573	.500	.416	.290														
7	.757	.697	.633	.551	.469	.379	.254													
8	.772	.715	.664	.591	.527	.431	.341	.223												
9	.788	.729	.688	.619	.560	.498	.389	.305	.199											
10	.813	.743	.706	.642	.597	.542	.467	.352	.270	.184										
11	.819	.754	.728	.657	.610	.560	.511	.429	.310	.250	.168									
12	.832	.770	.739	.681	.639	.588	.540	.482	.387	.285	.230	.153								
13	.843	.783	.754	.695	.664	.611	.555	.518	.436	.365	.265	.210	.137							
14	.852	.799	.765	.715	.675	.642	.575	.535	.476	.407	.350	.246	.190	.122						
15	.861	.809	.783	.728	.695	.653	.604	.559	.493	.451	.387	.334	.226	.179	.106					
16	.869	.816	.799	.743	.706	.675	.617	.584	.520	.465	.438	.367	.319	.201	.155	.091				
17	.878	.825	.808	.761	.721	.689	.639	.597	.546	.489	.451	.423	.350	.294	.186	.137	.077			
18	.887	.834	.816	.774	.735	.706	.653	.622	.562	.513	.473	.434	.412	.323	.281	.166	.124	.064		
19	.896	.843	.825	.783	.748	.721	.668	.639	.582	.533	.493	.454	.423	.389	.308	.261	.153	.111	.051	
20	.905	.852	.834	.792	.757	.735	.681	.655	.600	.555	.511	.469	.442	.403	.374	.288	.248	.139	.093	.042
21	.914	.861	.843	.803	.763	.746	.692	.668	.613	.577	.531	.482	.458	.425	.387	.354	.274	.235	.122	.077
22	.920	.874	.852	.814	.772	.752	.704	.679	.626	.593	.555	.498	.469	.442	.409	.369	.338	.261	.217	.106
23	.927	.885	.865	.825	.781	.761	.708	.692	.637	.606	.573	.524	.480	.451	.429	.394	.354	.323	.248	.199
24	.934	.894	.881	.836	.790	.770	.715	.697	.653	.617	.588	.540	.509	.460	.440	.416	.378	.338	.308	.232
25	.938	.903	.889	.857	.801	.779	.721	.704	.659	.637	.597	.558	.524	.485	.449	.429	.403	.363	.323	.290
26	.940	.912	.898	.863	.814	.792	.728	.710	.668	.644	.619	.564	.542	.500	.469	.438	.418	.389	.347	.305
27	.942	.918	.907	.874	.823	.803	.741	.717	.677	.653	.628	.586	.549	.520	.480	.456	.427	.405	.378	.332
28	.945	.925	.914	.885	.832	.812	.748	.732	.684	.664	.639	.595	.571	.529	.500	.465	.442	.414	.394	.367
29	.947	.931	.920	.892	.843	.819	.754	.739	.701	.675	.648	.606	.582	.551	.509	.485	.451	.427	.403	.383
30	.949	.936	.929	.898	.850	.827	.761	.743	.708	.695	.662	.617	.593	.562	.533	.489	.473	.436	.414	.392
31	.951	.940	.934	.909	.856	.834	.768	.748	.712	.701	.688	.628	.606	.573	.546	.509	.478	.460	.423	.400
32	.954	.945	.938	.916	.867	.841	.772	.752	.717	.706	.695	.662	.615	.588	.560	.522	.493	.465	.449	.409
33	.956	.949	.942	.923	.874	.852	.777	.754	.723	.710	.699	.673	.648	.597	.575	.538	.504	.478	.454	.438
34	.958	.954	.947	.929	.881	.861	.785	.757	.728	.715	.704	.679	.664	.628	.582	.558	.518	.487	.467	.442
35	.960	.956	.954	.938	.887	.867	.794	.763	.732	.717	.708	.686	.670	.646	.611	.564	.540	.498	.476	.456
36	.962	.958	.956	.951	.896	.874	.801	.768	.741	.719	.710	.692	.677	.655	.628	.591	.546	.520	.487	.465
37	.965	.960	.958	.956	.914	.881	.805	.774	.746	.726	.712	.695	.686	.662	.639	.606	.573	.527	.509	.476
38	.967	.962	.960	.958	.923	.898	.810	.779	.752	.730	.717	.697	.688	.673	.646	.619	.586	.553	.515	.498
39	.969	.965	.962	.960	.927	.912	.823	.783	.759	.735	.721	.699	.690	.675	.659	.626	.600	.569	.540	.504
40	.971	.967	.965	.962	.931	.918	.836	.794	.765	.739	.726	.701	.692	.677	.662	.642	.606	.584	.553	.529

TOTAL OBSERVATIONS 452

TABLE 2. 6.b. P(W < W\*) I LAUNCH OPPORTUNITIES IN J PERIODS (W\* = 50 M/SEC).  
BASED ON MAXIMUM WIND SPEEDS IN THE 10-15 KM LAYER OVER CAPE KENNEDY, FLORIDA.  
PERIOD OF RECORD JANUARY 1956 - DECEMBER 1963.

CAPE KENNEDY, FLORIDA FEBRUARY  
SPEEDS LESS THAN 055 MPS

PC ( I CONSECUTIVE SUCCESSES IN J PERIODS )

J	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
1	.635																			
2	.701	.569																		
3	.737	.617	.520																	
4	.759	.666	.564	.476																
5	.781	.697	.608	.511	.438															
6	.801	.717	.653	.549	.471	.400														
7	.821	.735	.681	.586	.504	.431	.365													
8	.838	.749	.701	.624	.538	.462	.394	.332												
9	.854	.761	.717	.650	.571	.493	.423	.361	.299											
10	.865	.777	.730	.670	.604	.524	.451	.389	.323	.270										
11	.876	.790	.746	.688	.624	.555	.480	.418	.347	.292	.246									
12	.887	.801	.761	.706	.639	.586	.509	.447	.372	.314	.268	.221								
13	.896	.812	.777	.723	.655	.606	.538	.476	.396	.336	.290	.243	.197							
14	.900	.821	.790	.739	.670	.624	.566	.504	.420	.358	.312	.265	.215	.177						
15	.905	.830	.803	.754	.686	.639	.591	.533	.445	.381	.334	.288	.232	.195	.157					
16	.909	.838	.812	.770	.699	.655	.611	.564	.469	.403	.356	.310	.250	.212	.173	.139				
17	.914	.847	.821	.785	.712	.670	.628	.588	.496	.425	.378	.332	.268	.230	.188	.153	.124			
18	.918	.856	.830	.796	.726	.684	.644	.608	.522	.449	.400	.354	.285	.249	.204	.166	.137	.108		
19	.923	.865	.838	.808	.739	.697	.664	.626	.544	.473	.425	.376	.303	.265	.219	.179	.150	.119	.095	
20	.927	.874	.847	.819	.748	.710	.679	.644	.562	.498	.449	.400	.321	.283	.235	.192	.164	.131	.106	.080
21	.929	.883	.856	.830	.757	.723	.695	.662	.577	.518	.473	.425	.338	.301	.250	.206	.177	.142	.117	.088
22	.931	.892	.865	.841	.765	.735	.709	.677	.593	.533	.493	.449	.356	.319	.265	.219	.190	.153	.128	.097
23	.934	.900	.874	.850	.774	.744	.721	.692	.608	.546	.518	.473	.374	.336	.281	.232	.204	.164	.139	.106
24	.936	.907	.883	.861	.781	.757	.732	.706	.622	.560	.533	.498	.392	.354	.296	.246	.217	.175	.150	.115
25	.938	.914	.892	.872	.790	.765	.743	.719	.635	.573	.546	.518	.409	.372	.312	.259	.230	.186	.162	.124
26	.940	.918	.900	.883	.799	.777	.752	.730	.646	.594	.560	.533	.427	.380	.327	.272	.243	.197	.173	.133
27	.942	.923	.907	.894	.808	.788	.763	.739	.657	.595	.573	.546	.447	.407	.343	.293	.257	.208	.184	.142
28	.945	.927	.914	.903	.816	.796	.774	.750	.664	.604	.584	.560	.456	.425	.358	.299	.270	.219	.195	.150
29	.947	.931	.920	.909	.823	.805	.785	.761	.673	.613	.593	.573	.467	.440	.374	.312	.283	.230	.206	.159
30	.949	.936	.927	.916	.832	.812	.794	.772	.681	.622	.602	.582	.478	.454	.389	.325	.296	.241	.217	.168
31	.951	.940	.934	.923	.838	.821	.801	.783	.690	.631	.613	.591	.487	.465	.403	.338	.310	.252	.228	.177
32	.954	.945	.938	.929	.845	.830	.808	.790	.699	.639	.622	.602	.493	.473	.414	.352	.323	.263	.239	.186
33	.956	.949	.942	.936	.852	.836	.814	.796	.706	.648	.631	.613	.502	.482	.420	.355	.336	.274	.250	.195
34	.958	.954	.947	.940	.858	.843	.821	.803	.712	.655	.639	.622	.511	.491	.427	.374	.350	.285	.261	.204
35	.960	.958	.951	.945	.865	.850	.825	.810	.719	.662	.646	.631	.520	.500	.436	.381	.361	.296	.272	.212
36	.962	.960	.956	.949	.872	.856	.830	.816	.726	.668	.653	.637	.529	.500	.445	.389	.369	.305	.283	.221
37	.965	.962	.960	.954	.878	.863	.834	.821	.732	.675	.659	.644	.535	.518	.454	.398	.378	.314	.292	.230
38	.967	.965	.962	.958	.885	.869	.838	.825	.739	.681	.666	.650	.542	.524	.462	.407	.387	.325	.301	.239
39	.969	.967	.965	.962	.892	.876	.843	.830	.743	.688	.673	.657	.549	.531	.469	.416	.396	.334	.310	.248
40	.971	.969	.967	.965	.898	.883	.847	.834	.748	.694	.679	.664	.555	.538	.476	.423	.405	.343	.319	.257

TOTAL OBSERVATIONS 452

TABLE 2. 7.a. P(W < W\*) I CONSECUTIVE LAUNCH OPPORTUNITIES IN J PERIODS (W\* = 55 M/SEC).  
BASED ON MAXIMUM WIND SPEEDS IN THE 10-15 KM LAYER OVER CAPE KENNEDY, FLORIDA.

PERIOD OF RECORD JANUARY 1956 - DECEMBER 1963.

# REPRODUCIBILITY OF THE ORIGINAL PAGE IS POOR.

CAPE KENNEDY, FLORIDA FEBRUARY  
SPEEDS LESS THAN 055 MPS

P ( I SUCCESSES IN J PERIODS )

J	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
1	.635																			
2	.701	.569																		
3	.737	.646	.520																	
4	.759	.692	.608	.476																
5	.781	.712	.668	.569	.438															
6	.801	.730	.692	.635	.542	.400														
7	.821	.743	.712	.662	.613	.515	.365													
8	.838	.759	.728	.684	.642	.588	.489	.332												
9	.854	.777	.743	.699	.668	.615	.569	.462	.299											
10	.865	.794	.763	.717	.681	.646	.593	.549	.429	.270										
11	.876	.805	.785	.739	.697	.664	.622	.573	.522	.398	.246									
12	.887	.814	.799	.765	.719	.679	.644	.600	.544	.502	.372	.221								
13	.896	.825	.808	.783	.750	.701	.659	.624	.566	.527	.485	.347	.197							
14	.900	.841	.816	.794	.770	.737	.679	.639	.595	.544	.511	.469	.319	.177						
15	.905	.852	.830	.805	.781	.761	.719	.657	.611	.571	.529	.496	.449	.296	.157					
16	.909	.861	.841	.816	.794	.772	.746	.701	.626	.584	.555	.511	.480	.431	.274	.139				
17	.914	.869	.850	.827	.805	.788	.759	.735	.668	.597	.569	.533	.496	.467	.412	.254	.124			
18	.918	.876	.861	.836	.814	.797	.759	.740	.708	.635	.582	.542	.518	.482	.451	.396	.237	.108		
19	.923	.883	.869	.847	.829	.810	.790	.768	.728	.677	.615	.551	.527	.504	.467	.438	.383	.217	.095	
20	.927	.889	.876	.861	.834	.819	.801	.781	.746	.697	.662	.575	.538	.511	.491	.451	.427	.365	.201	.080
21	.929	.898	.883	.872	.847	.827	.810	.792	.759	.719	.679	.624	.560	.518	.500	.476	.438	.412	.352	.181
22	.931	.905	.892	.881	.865	.836	.819	.801	.770	.730	.706	.639	.611	.538	.507	.487	.462	.423	.398	.338
23	.934	.909	.900	.889	.878	.854	.827	.810	.779	.739	.721	.666	.622	.595	.522	.493	.476	.447	.409	.385
24	.936	.914	.907	.898	.887	.874	.845	.819	.788	.746	.730	.686	.644	.606	.584	.507	.482	.462	.431	.398
25	.938	.918	.912	.905	.896	.885	.867	.836	.796	.754	.737	.699	.662	.626	.595	.569	.496	.471	.447	.418
26	.940	.923	.916	.909	.903	.894	.881	.863	.814	.761	.746	.710	.675	.644	.611	.584	.553	.485	.460	.431
27	.942	.927	.920	.914	.907	.900	.892	.876	.843	.777	.752	.723	.681	.664	.624	.597	.573	.538	.473	.449
28	.945	.931	.925	.918	.912	.905	.898	.889	.858	.805	.765	.732	.692	.670	.646	.608	.586	.562	.522	.462
29	.947	.936	.929	.923	.916	.909	.903	.896	.876	.819	.794	.748	.701	.679	.655	.633	.595	.577	.551	.507
30	.949	.940	.934	.927	.920	.914	.907	.900	.883	.841	.805	.779	.715	.688	.664	.644	.615	.588	.569	.540
31	.951	.945	.938	.931	.925	.918	.912	.905	.887	.850	.827	.790	.748	.701	.670	.653	.631	.604	.580	.560
32	.954	.949	.942	.936	.929	.923	.916	.909	.892	.854	.841	.812	.759	.737	.681	.659	.642	.615	.595	.571
33	.956	.954	.947	.940	.934	.927	.920	.914	.896	.858	.847	.827	.781	.748	.717	.670	.648	.628	.604	.584
34	.958	.956	.954	.945	.938	.931	.925	.918	.903	.863	.852	.834	.801	.768	.728	.706	.659	.637	.619	.591
35	.960	.958	.956	.954	.942	.936	.929	.923	.907	.872	.856	.836	.814	.785	.748	.717	.697	.646	.631	.606
36	.962	.960	.958	.956	.954	.940	.934	.927	.912	.876	.865	.838	.821	.801	.763	.735	.710	.684	.639	.619
37	.965	.962	.960	.958	.956	.954	.938	.931	.916	.881	.869	.845	.827	.808	.781	.748	.726	.699	.677	.628
38	.967	.965	.962	.960	.958	.956	.954	.936	.920	.885	.874	.850	.836	.814	.790	.763	.739	.712	.695	.666
39	.969	.967	.965	.962	.960	.958	.956	.954	.925	.889	.879	.854	.843	.823	.799	.770	.754	.726	.706	.688
40	.971	.969	.967	.965	.962	.960	.958	.956	.945	.894	.883	.858	.847	.830	.810	.779	.761	.741	.719	.699

TOTAL OBSERVATIONS 492

TABLE 2. 7.b. P(W < W\*) I LAUNCH OPPORTUNITIES IN J PERIODS (W\* = 55 M/SEC).  
BASED ON MAXIMUM WIND SPEEDS IN THE 10-15 KM LAYER OVER CAPE KENNEDY, FLORIDA.  
PERIOD OF RECORD JANUARY 1956 - DECEMBER 1963.



CAPE KENNEDY, FLORIDA FEBRUARY  
SPEEDS LESS THAN 060 MPS

PC ( I CONSECUTIVE SUCCESSES IN J PERIODS )

	I																			
J	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
1	.719																			
2	.783	.657																		
3	.825	.701	.611																	
4	.856	.746	.642	.577																
5	.881	.777	.673	.604	.549															
6	.900	.805	.704	.633	.573	.522														
7	.918	.832	.723	.662	.597	.542	.498													
8	.931	.852	.741	.690	.622	.562	.518	.473												
9	.940	.867	.757	.710	.646	.582	.538	.491	.451											
10	.947	.883	.772	.728	.670	.602	.558	.509	.469	.429										
11	.951	.894	.790	.741	.688	.622	.57	.527	.487	.445	.412									
12	.954	.903	.808	.757	.701	.642	.597	.544	.504	.460	.427	.394								
13	.956	.912	.823	.772	.717	.655	.617	.562	.522	.476	.442	.409	.376							
14	.958	.918	.834	.788	.732	.668	.637	.580	.540	.491	.458	.425	.392	.358						
15	.960	.923	.841	.801	.750	.681	.653	.597	.558	.507	.473	.440	.407	.369	.345					
16	.962	.927	.847	.812	.768	.695	.666	.617	.575	.522	.489	.456	.423	.381	.356	.332				
17	.965	.931	.854	.821	.783	.708	.679	.633	.595	.538	.504	.471	.438	.392	.367	.343	.319			
18	.967	.936	.861	.830	.794	.721	.692	.646	.615	.555	.520	.487	.454	.403	.378	.354	.330	.305		
19	.969	.940	.867	.838	.805	.735	.706	.659	.631	.573	.538	.502	.469	.414	.389	.365	.341	.316	.292	
20	.971	.945	.874	.847	.816	.746	.719	.673	.644	.591	.555	.520	.485	.425	.400	.376	.352	.327	.303	.279
21	.973	.947	.881	.856	.827	.754	.732	.686	.657	.604	.573	.538	.502	.436	.412	.387	.363	.338	.314	.290
22	.976	.949	.887	.865	.838	.763	.743	.699	.670	.615	.588	.555	.520	.449	.423	.398	.374	.350	.325	.301
23	.978	.951	.894	.874	.847	.772	.752	.712	.684	.626	.602	.571	.538	.462	.436	.409	.385	.361	.336	.312
24	.980	.954	.900	.883	.856	.781	.761	.726	.697	.637	.613	.586	.553	.476	.449	.423	.396	.372	.347	.323
25	.982	.956	.907	.892	.867	.788	.770	.737	.710	.648	.624	.600	.569	.487	.462	.436	.409	.383	.358	.334
26	.985	.958	.914	.900	.878	.799	.777	.748	.723	.659	.635	.611	.584	.498	.473	.449	.423	.396	.369	.345
27	.987	.960	.920	.909	.889	.810	.788	.757	.735	.670	.646	.622	.597	.509	.485	.460	.436	.409	.383	.356
28	.989	.962	.925	.916	.900	.821	.799	.770	.743	.681	.657	.633	.608	.520	.496	.471	.447	.423	.396	.369
29	.991	.965	.929	.923	.909	.832	.810	.783	.759	.688	.668	.644	.619	.529	.507	.482	.458	.434	.409	.383
30	.993	.967	.934	.927	.918	.841	.821	.796	.772	.701	.677	.655	.631	.538	.518	.493	.469	.445	.420	.396
31	.996	.969	.938	.931	.925	.850	.830	.810	.785	.715	.690	.664	.642	.546	.527	.504	.480	.456	.431	.407
32	.998	.971	.942	.936	.929	.858	.838	.819	.799	.726	.704	.677	.650	.555	.535	.515	.491	.467	.442	.418
33	1.00	.973	.947	.940	.934	.865	.847	.827	.808	.737	.717	.688	.662	.564	.544	.524	.502	.478	.454	.429
34	1.00	.976	.951	.945	.938	.874	.856	.836	.816	.743	.728	.699	.673	.575	.553	.533	.513	.489	.465	.440
35	1.00	.978	.956	.949	.942	.883	.865	.845	.825	.750	.735	.710	.681	.586	.564	.542	.522	.500	.476	.451
36	1.00	.980	.958	.954	.947	.892	.874	.854	.834	.757	.741	.715	.690	.597	.575	.553	.531	.511	.487	.462
37	1.00	.982	.960	.958	.951	.900	.883	.861	.843	.763	.748	.719	.695	.608	.586	.564	.542	.520	.498	.473
38	1.00	.985	.962	.960	.956	.907	.892	.867	.852	.770	.754	.723	.699	.615	.597	.575	.553	.531	.509	.485
39	1.00	.987	.965	.962	.960	.914	.900	.874	.858	.777	.761	.728	.704	.622	.604	.586	.564	.542	.518	.496
40	1.00	.989	.967	.965	.962	.920	.907	.881	.865	.783	.768	.732	.708	.628	.611	.593	.575	.553	.527	.507

TOTAL OBSERVATIONS 452

TABLE 2. 8-a. P(W < W\*) I CONSECUTIVE LAUNCH OPPORTUNITIES IN J PERIODS (W\* = 60 M/SEC).  
BASED ON MAXIMUM WIND SPEEDS IN THE 10-15 KM LAYER OVER CAPE KENNEDY, FLORIDA.

PERIOD OF RECORD JANUARY 1956 - DECEMBER 1963.

CAPE KENNEDY, FLORIDA FEBRUARY  
SPEEDS LESS THAN 060 MPS

P ( I SUCCESSES IN J PERIODS )

J	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
1	.719																			
2	.783	.657																		
3	.825	.723	.611																	
4	.856	.768	.675	.577																
5	.881	.805	.715	.644	.549															
6	.900	.834	.752	.684	.622	.522														
7	.918	.856	.781	.723	.659	.597	.498													
8	.931	.876	.808	.754	.692	.635	.577	.473												
9	.940	.896	.830	.781	.723	.668	.615	.555	.451											
10	.947	.907	.854	.810	.748	.692	.648	.595	.533	.429										
11	.951	.918	.865	.838	.781	.717	.673	.626	.577	.509	.412									
12	.954	.927	.881	.847	.814	.757	.692	.655	.604	.551	.493	.394								
13	.956	.931	.894	.863	.823	.799	.732	.675	.635	.575	.535	.478	.376							
14	.958	.934	.903	.878	.838	.812	.770	.721	.655	.609	.558	.520	.462	.358						
15	.960	.936	.907	.892	.854	.830	.788	.754	.708	.626	.593	.542	.504	.442	.345					
16	.962	.938	.912	.900	.865	.847	.810	.772	.739	.694	.611	.577	.524	.482	.431	.332				
17	.965	.940	.916	.907	.874	.858	.830	.796	.739	.719	.666	.595	.558	.502	.469	.420	.319			
18	.967	.942	.920	.914	.881	.867	.843	.816	.785	.741	.704	.650	.571	.535	.487	.458	.409	.305		
19	.969	.945	.923	.920	.889	.872	.856	.830	.808	.770	.726	.690	.624	.546	.520	.476	.447	.398	.292	
20	.971	.947	.925	.923	.900	.878	.865	.843	.821	.794	.754	.710	.664	.595	.533	.507	.465	.436	.387	.279
21	.973	.949	.927	.925	.907	.889	.874	.854	.834	.810	.781	.739	.679	.635	.584	.520	.493	.454	.425	.376
22	.976	.951	.929	.927	.914	.896	.885	.867	.845	.823	.796	.770	.708	.650	.619	.575	.504	.482	.442	.414
23	.978	.954	.931	.929	.918	.905	.897	.881	.861	.834	.810	.788	.737	.686	.631	.608	.562	.493	.471	.431
24	.980	.956	.934	.931	.923	.909	.903	.887	.876	.854	.821	.801	.757	.715	.666	.615	.597	.553	.482	.460
25	.982	.958	.936	.934	.927	.914	.907	.900	.883	.872	.843	.812	.770	.737	.697	.646	.606	.586	.544	.471
26	.985	.960	.938	.936	.931	.918	.912	.905	.898	.878	.863	.836	.781	.754	.717	.677	.635	.597	.575	.535
27	.987	.962	.940	.933	.936	.923	.916	.909	.903	.896	.869	.858	.808	.768	.735	.699	.659	.626	.586	.566
28	.989	.965	.942	.940	.938	.929	.920	.914	.907	.900	.899	.865	.834	.790	.752	.717	.677	.650	.613	.580
29	.991	.967	.945	.942	.940	.934	.927	.918	.912	.905	.894	.887	.845	.814	.777	.735	.697	.664	.637	.604
30	.993	.969	.947	.945	.942	.938	.931	.925	.916	.909	.898	.892	.872	.825	.803	.761	.710	.686	.648	.628
31	.996	.971	.949	.947	.945	.942	.936	.929	.923	.914	.903	.896	.878	.852	.819	.790	.732	.699	.670	.639
32	.998	.973	.951	.949	.947	.945	.942	.934	.927	.920	.907	.900	.885	.856	.847	.812	.757	.721	.686	.659
33	1.00	.976	.954	.951	.949	.947	.945	.942	.931	.925	.914	.905	.892	.861	.852	.843	.781	.746	.710	.670
34	1.00	.980	.956	.954	.951	.949	.947	.945	.942	.929	.918	.912	.898	.867	.856	.847	.819	.768	.737	.692
35	1.00	.982	.960	.956	.954	.951	.949	.947	.945	.942	.923	.916	.907	.872	.865	.852	.825	.808	.759	.721
36	1.00	.985	.965	.958	.956	.954	.951	.949	.947	.945	.938	.920	.914	.878	.869	.863	.830	.816	.801	.743
37	1.00	.987	.969	.960	.958	.956	.954	.951	.949	.947	.940	.938	.918	.885	.876	.867	.841	.823	.810	.790
38	1.00	.989	.973	.962	.960	.958	.956	.954	.951	.949	.942	.940	.938	.889	.883	.874	.847	.832	.819	.801
39	1.00	.991	.978	.965	.962	.960	.958	.956	.954	.951	.945	.942	.940	.912	.887	.881	.856	.838	.825	.812
40	1.00	.993	.982	.967	.965	.962	.960	.958	.956	.954	.947	.945	.942	.914	.912	.885	.863	.850	.832	.819

TOTAL OBSERVATIONS 452

TABLE 2. 8.b. P(W < W\*) I LAUNCH OPPORTUNITIES IN J PERIODS (W\* = 60 M/SEC).  
BASED ON MAXIMUM WIND SPEEDS IN THE 10-15 KM LAYER OVER CAPE KENNEDY, FLORIDA.  
PERIOD OF RECORD JANUARY 1956 - DECEMBER 1963.

CAPE KENNEDY, FLORIDA FEBRUARY  
SPEEDS LESS THAN 065 MPH

PC ( I CONSECUTIVE SUCCESSSES IN J PERIODS )

	I																			
J	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
1	.803																			
2	.856	.752																		
3	.894	.796	.708																	
4	.912	.841	.748	.668																
5	.927	.878	.788	.699	.637															
6	.940	.900	.827	.730	.664	.613														
7	.949	.920	.861	.761	.690	.633	.593													
8	.956	.934	.881	.792	.717	.653	.608	.575												
9	.962	.942	.896	.821	.743	.673	.624	.588	.560											
10	.965	.951	.907	.845	.772	.692	.639	.602	.573	.540										
11	.967	.958	.914	.865	.799	.715	.655	.615	.586	.553	.520									
12	.969	.962	.920	.881	.821	.737	.673	.628	.600	.566	.531	.504								
13	.971	.967	.927	.892	.841	.759	.690	.644	.613	.580	.542	.515	.489							
14	.973	.969	.931	.890	.858	.779	.710	.659	.628	.593	.553	.527	.500	.473						
15	.976	.971	.936	.907	.872	.796	.730	.677	.644	.608	.564	.538	.511	.482	.460					
16	.978	.973	.938	.912	.883	.812	.750	.697	.659	.624	.575	.549	.522	.491	.469	.447				
17	.980	.976	.940	.916	.892	.823	.768	.715	.677	.639	.596	.560	.533	.500	.478	.454	.436			
18	.982	.978	.942	.918	.898	.834	.781	.732	.695	.657	.617	.571	.544	.509	.487	.460	.442	.425		
19	.985	.980	.945	.920	.903	.843	.797	.748	.712	.675	.631	.592	.555	.518	.496	.467	.449	.431	.414	
20	.987	.982	.947	.923	.907	.852	.803	.761	.730	.695	.654	.615	.576	.536	.504	.473	.456	.438	.420	.403
21	.989	.985	.949	.925	.912	.861	.814	.774	.746	.715	.679	.640	.603	.565	.535	.513	.480	.462	.445	.427
22	.991	.987	.951	.927	.916	.869	.825	.788	.759	.732	.697	.657	.624	.593	.566	.522	.487	.469	.451	.434
23	.993	.989	.954	.929	.920	.876	.834	.801	.772	.740	.703	.663	.628	.598	.563	.533	.493	.476	.458	.440
24	.996	.991	.956	.931	.925	.883	.841	.814	.785	.761	.726	.686	.659	.626	.591	.564	.522	.482	.465	.447
25	.998	.993	.958	.934	.929	.889	.847	.823	.799	.774	.740	.709	.675	.644	.606	.578	.538	.511	.491	.474
26	1.00	.996	.960	.936	.934	.898	.854	.832	.810	.788	.760	.728	.688	.662	.622	.593	.552	.500	.480	.460
27	1.00	.998	.962	.938	.936	.907	.863	.841	.819	.799	.771	.741	.709	.677	.641	.608	.575	.535	.511	.489
28	1.00	1.00	.965	.940	.938	.916	.877	.852	.827	.810	.780	.750	.710	.688	.653	.624	.599	.559	.524	.500
29	1.00	1.00	.947	.942	.940	.923	.881	.863	.838	.819	.789	.769	.739	.719	.699	.664	.639	.602	.578	.553
30	1.00	1.00	.969	.945	.942	.929	.889	.874	.850	.830	.798	.778	.748	.728	.708	.675	.653	.615	.591	.567
31	1.00	1.00	.971	.947	.945	.936	.898	.883	.861	.841	.807	.787	.757	.737	.717	.684	.664	.626	.606	.586
32	1.00	1.00	.973	.949	.947	.942	.907	.892	.869	.857	.825	.805	.775	.755	.735	.702	.682	.644	.624	.604
33	1.00	1.00	.976	.951	.949	.947	.916	.900	.878	.861	.829	.809	.779	.759	.739	.706	.686	.648	.628	.608
34	1.00	1.00	.978	.954	.951	.949	.925	.909	.887	.869	.837	.817	.787	.767	.747	.714	.694	.656	.636	.616
35	1.00	1.00	.980	.956	.954	.951	.931	.918	.896	.878	.846	.826	.796	.776	.756	.724	.704	.666	.646	.626
36	1.00	1.00	.982	.958	.956	.954	.936	.927	.905	.887	.855	.835	.805	.785	.765	.733	.713	.675	.655	.635
37	1.00	1.00	.985	.960	.958	.956	.940	.934	.914	.896	.864	.844	.814	.794	.774	.742	.722	.684	.664	.644
38	1.00	1.00	.987	.967	.960	.958	.945	.938	.923	.905	.873	.853	.823	.803	.783	.751	.731	.693	.673	.653
39	1.00	1.00	.989	.965	.962	.960	.949	.942	.929	.914	.882	.862	.832	.812	.792	.760	.740	.702	.682	.662
40	1.00	1.00	.991	.967	.965	.962	.954	.947	.934	.923	.891	.871	.841	.821	.791	.771	.739	.721	.683	.663

TOTAL OBSERVATIONS 452

TABLE 2. 9.a. P(W < W\*) I CONSECUTIVE LAUNCH OPPORTUNITIES IN J PERIODS (W\* = 65 M/SEC).  
BASED ON MAXIMUM WIND SPEEDS IN THE 10-15 KM LAYER OVER CAPE KENNEDY, FLORIDA.

CAPE KENNEDY, FLORIDA FEBRUARY  
SPEEDS LESS THAN 065 MPH

P ( I SUCCESSSES IN J PERIODS )

	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	
1	.803																				
2	.856	.752																			
3	.894	.812	.708																		
4	.912	.869	.770	.668																	
5	.927	.894	.838	.728	.637																
6	.940	.912	.867	.805	.697	.613															
7	.949	.929	.883	.850	.777	.665	.593														
8	.956	.940	.905	.867	.830	.743	.639	.575													
9	.962	.949	.916	.894	.850	.805	.710	.619	.560												
10	.965	.958	.927	.905	.878	.832	.779	.684	.602	.540											
11	.967	.962	.936	.914	.887	.845	.812	.759	.662	.582	.520										
12	.969	.965	.945	.927	.900	.876	.850	.796	.741	.637	.542	.504									
13	.971	.967	.949	.938	.907	.894	.861	.838	.783	.721	.613	.546	.489								
14	.973	.969	.954	.942	.920	.898	.883	.852	.827	.765	.699	.597	.533	.473							
15	.976	.971	.958	.947	.925	.912	.880	.876	.843	.812	.743	.688	.584	.518	.460						
16	.978	.973	.960	.951	.929	.916	.903	.885	.869	.837	.790	.730	.677	.566	.504	.447					
17	.980	.976	.962	.954	.931	.923	.907	.899	.881	.863	.812	.774	.719	.667	.551	.489	.436				
18	.982	.978	.965	.956	.934	.927	.914	.903	.894	.876	.847	.796	.763	.706	.644	.533	.478	.425			
19	.985	.980	.967	.958	.936	.929	.920	.909	.898	.880	.845	.834	.785	.750	.688	.624	.522	.467	.414		
20	.987	.982	.969	.960	.938	.931	.923	.918	.905	.894	.881	.854	.825	.770	.737	.664	.613	.511	.456	.403	
21	.989	.985	.971	.962	.940	.936	.925	.920	.916	.900	.885	.872	.847	.810	.757	.715	.650	.602	.498	.447	
22	.991	.987	.973	.965	.942	.940	.929	.923	.918	.914	.892	.878	.865	.834	.796	.735	.701	.639	.586	.489	
23	.993	.989	.976	.967	.945	.942	.936	.927	.920	.916	.900	.885	.872	.854	.827	.777	.719	.690	.622	.577	
24	.996	.991	.978	.969	.947	.945	.938	.936	.925	.918	.914	.903	.881	.861	.847	.812	.759	.708	.673	.611	
25	.998	.993	.980	.971	.949	.947	.940	.938	.936	.923	.916	.909	.898	.872	.854	.836	.796	.746	.692	.659	
26	1.00	.996	.982	.973	.951	.949	.942	.940	.938	.936	.920	.914	.905	.889	.867	.845	.823	.785	.728	.681	
27	1.00	1.00	.985	.976	.954	.951	.945	.942	.940	.938	.936	.918	.912	.896	.885	.863	.832	.814	.768	.715	
28	1.00	1.00	.991	.978	.956	.954	.947	.945	.942	.940	.938	.936	.916	.907	.889	.881	.854	.823	.799	.754	
29	1.00	1.00	.993	.985	.958	.956	.949	.947	.945	.942	.940	.938	.936	.914	.900	.885	.874	.847	.812	.783	
30	1.00	1.00	.996	.989	.962	.958	.951	.949	.947	.945	.942	.940	.938	.936	.909	.896	.878	.869	.841	.799	
31	1.00	1.00	.998	.993	.967	.960	.954	.951	.949	.947	.945	.942	.940	.938	.936	.905	.889	.874	.865	.832	
32	1.00	1.00	1.00	.996	.973	.962	.956	.954	.951	.949	.947	.945	.942	.940	.938	.936	.898	.885	.869	.858	
33	1.00	1.00	1.00	1.00	.976	.969	.958	.956	.954	.951	.949	.947	.945	.942	.940	.938	.934	.894	.881	.863	
34	1.00	1.00	1.00	1.00	.982	.971	.965	.958	.956	.954	.951	.949	.947	.945	.942	.940	.936	.934	.889	.876	
35	1.00	1.00	1.00	1.00	.985	.978	.969	.962	.958	.956	.954	.951	.949	.947	.945	.942	.938	.936	.934	.885	
36	1.00	1.00	1.00	1.00	.987	.982	.976	.967	.960	.958	.956	.954	.951	.949	.947	.945	.940	.938	.936	.936	
37	1.00	1.00	1.00	1.00	.989	.987	.980	.973	.962	.960	.958	.956	.954	.951	.949	.947	.942	.940	.938	.936	
38	1.00	1.00	1.00	1.00	.991	.989	.987	.976	.969	.962	.960	.958	.956	.954	.951	.949	.945	.942	.940	.938	
39	1.00	1.00	1.00	1.00	.993	.991	.989	.982	.971	.969	.962	.960	.958	.956	.954	.951	.947	.945	.942	.940	
40	1.00	1.00	1.00	1.00	.996	.993	.991	.985	.978	.971	.969	.962	.960	.958	.956	.954	.949	.947	.945	.942	

TOTAL OBSERVATIONS 452

TABLE 2.9.b. P(W < W\*) I LAUNCH OPPORTUNITIES IN J PERIODS (W\* = 65 M/SEC).  
BASED ON MAXIMUM WIND SPEEDS IN THE 10-15 KM LAYER OVER CAPE KENNEDY, FLORIDA.  
PERIOD OF RECORD JANUARY 1956 - DECEMBER 1963.

CAPE KENNEDY, FLORIDA FEBRUARY  
SPEEDS LESS THAN 70 MPH

PC ( 1 CONSECUTIVE SUCCESS IN J PERIODS )

	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
1	.881																			
2	.916	.847																		
3	.934	.874	.821																	
4	.947	.900	.845	.796																
5	.956	.920	.869	.814	.777															
6	.962	.938	.894	.836	.794	.757														
7	.969	.947	.914	.856	.814	.777	.735													
8	.976	.951	.934	.876	.836	.796	.754	.712												
9	.982	.956	.945	.894	.856	.816	.774	.732	.690											
10	.985	.960	.951	.912	.878	.836	.794	.752	.710	.668										
11	.987	.962	.958	.920	.894	.858	.814	.772	.730	.684	.642									
12	.989	.965	.960	.925	.914	.881	.836	.792	.750	.701	.659	.619								
13	.991	.967	.962	.929	.923	.898	.858	.814	.770	.719	.677	.637	.597							
14	.993	.969	.965	.931	.927	.916	.881	.836	.792	.737	.695	.655	.611	.582						
15	.996	.971	.967	.934	.931	.925	.898	.858	.814	.757	.712	.673	.624	.595	.566					
16	.998	.973	.969	.936	.934	.929	.910	.891	.834	.777	.730	.690	.637	.608	.580	.551				
17	1.00	.976	.971	.938	.934	.934	.925	.898	.854	.794	.748	.708	.650	.622	.593	.562	.538			
18	1.00	.978	.973	.940	.938	.936	.929	.916	.874	.812	.763	.726	.664	.635	.606	.573	.549	.524		
19	1.00	.980	.976	.942	.940	.938	.934	.925	.892	.830	.779	.741	.677	.648	.619	.584	.560	.533	.513	
20	1.00	.982	.978	.945	.942	.940	.936	.929	.909	.850	.794	.757	.690	.662	.633	.595	.571	.542	.522	.502
21	1.00	.985	.980	.947	.945	.942	.938	.934	.918	.865	.812	.772	.704	.675	.646	.606	.582	.551	.531	.511
22	1.00	.987	.982	.949	.947	.945	.940	.936	.923	.881	.832	.793	.721	.688	.659	.617	.593	.560	.540	.520
23	1.00	.989	.985	.954	.949	.947	.942	.938	.927	.892	.845	.810	.771	.701	.673	.628	.604	.569	.549	.529
24	1.00	.991	.987	.954	.951	.949	.945	.940	.929	.894	.858	.830	.773	.717	.686	.639	.615	.577	.558	.538
25	1.00	.993	.989	.954	.954	.951	.947	.942	.931	.905	.872	.833	.775	.735	.701	.650	.626	.586	.566	.546
26	1.00	.996	.991	.958	.956	.954	.949	.945	.934	.909	.876	.836	.785	.752	.719	.664	.637	.595	.575	.555
27	1.00	.998	.993	.960	.958	.956	.954	.947	.936	.914	.882	.841	.796	.770	.737	.679	.650	.604	.584	.564
28	1.00	1.00	.996	.962	.960	.958	.956	.951	.938	.916	.882	.842	.808	.785	.754	.695	.666	.615	.593	.573
29	1.00	1.00	.998	.965	.962	.960	.958	.956	.942	.923	.891	.878	.819	.796	.770	.710	.681	.628	.604	.582
30	1.00	1.00	1.00	.967	.965	.962	.960	.958	.947	.929	.896	.883	.827	.808	.785	.723	.697	.642	.617	.593
31	1.00	1.00	1.00	.969	.967	.965	.962	.960	.951	.934	.903	.887	.836	.814	.796	.737	.710	.655	.631	.606
32	1.00	1.00	1.00	.971	.969	.967	.965	.962	.954	.942	.912	.894	.845	.825	.805	.750	.723	.664	.644	.619
33	1.00	1.00	1.00	.973	.971	.969	.967	.965	.956	.949	.920	.903	.856	.834	.814	.759	.737	.677	.655	.633
34	1.00	1.00	1.00	.976	.973	.971	.969	.967	.958	.954	.929	.912	.869	.845	.823	.768	.750	.688	.666	.644
35	1.00	1.00	1.00	.978	.976	.973	.971	.969	.960	.956	.938	.920	.883	.858	.834	.777	.759	.699	.677	.655
36	1.00	1.00	1.00	.980	.978	.976	.973	.971	.962	.958	.945	.929	.894	.872	.847	.788	.768	.710	.688	.666
37	1.00	1.00	1.00	.982	.980	.978	.976	.973	.965	.960	.949	.938	.905	.883	.861	.801	.779	.719	.699	.677
38	1.00	1.00	1.00	.985	.982	.980	.978	.976	.967	.962	.954	.945	.916	.894	.872	.814	.792	.730	.710	.688
39	1.00	1.00	1.00	.987	.985	.982	.980	.978	.969	.965	.958	.949	.927	.905	.883	.825	.803	.743	.721	.699
40	1.00	1.00	1.00	.989	.987	.985	.982	.980	.971	.967	.962	.954	.936	.916	.894	.836	.816	.757	.735	.712

TOTAL OBSERVATIONS 492

TABLE 2.10.2. P(W < W0) I CONSECUTIVE LAUNCH OPPORTUNITIES IN J PERIODS (W0 = 70 M/SEC).  
BASED ON MAXIMUM WIND SPEEDS IN THE 10-15 KM LAYER OVER CAPE KENNEDY, FLORIDA.  
PERIOD OF RECORD JANUARY 1956 - DECEMBER 1963.

CAPE KENNEDY, FLORIDA FEBRUARY  
SPEEDS LESS THAN 070 MPS

P ( I SUCCESSES IN J PERIODS )

J	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
1	.881																			
2	.916	.867																		
3	.934	.892	.821																	
4	.947	.916	.869	.736																
5	.956	.934	.903	.843	.777															
6	.962	.942	.929	.878	.827	.757														
7	.969	.947	.940	.916	.863	.812	.735													
8	.976	.951	.945	.929	.912	.847	.794	.712												
9	.982	.956	.949	.934	.927	.907	.832	.777	.690											
10	.985	.962	.954	.938	.931	.925	.900	.816	.759	.666										
11	.987	.965	.960	.942	.936	.929	.918	.896	.801	.739	.642									
12	.989	.967	.962	.949	.940	.934	.920	.916	.892	.781	.723	.619								
13	.991	.969	.965	.954	.947	.938	.923	.918	.914	.881	.768	.708	.597							
14	.993	.971	.967	.958	.951	.945	.925	.920	.916	.907	.874	.754	.690	.582						
15	.996	.973	.969	.960	.956	.949	.929	.923	.918	.912	.903	.867	.741	.675	.566					
16	.998	.976	.971	.962	.958	.954	.931	.927	.920	.916	.907	.898	.858	.728	.659	.551				
17	1.00	.978	.973	.965	.960	.956	.934	.929	.925	.918	.914	.903	.892	.850	.712	.644	.538			
18	1.00	.982	.976	.967	.962	.958	.936	.931	.927	.923	.916	.912	.898	.885	.841	.695	.631	.526		
19	1.00	.985	.980	.969	.965	.960	.938	.934	.929	.925	.920	.914	.909	.894	.878	.825	.679	.617	.513	
20	1.00	.987	.982	.973	.967	.962	.940	.936	.931	.927	.923	.918	.912	.907	.887	.867	.810	.666	.607	.502
21	1.00	.989	.985	.978	.969	.965	.942	.940	.934	.929	.925	.920	.916	.910	.903	.878	.854	.796	.633	.595
22	1.00	.991	.987	.982	.971	.967	.945	.942	.940	.931	.927	.923	.918	.914	.907	.898	.867	.843	.781	.644
23	1.00	.993	.989	.985	.976	.969	.947	.945	.942	.940	.929	.925	.920	.916	.912	.905	.894	.856	.830	.770
24	1.00	.996	.991	.987	.978	.973	.949	.947	.945	.942	.940	.927	.923	.918	.914	.909	.903	.889	.843	.819
25	1.00	.998	.993	.989	.980	.976	.954	.949	.947	.945	.942	.940	.925	.920	.916	.912	.907	.900	.883	.832
26	1.00	1.00	.996	.991	.982	.978	.958	.951	.949	.947	.945	.942	.940	.923	.918	.914	.909	.905	.898	.876
27	1.00	1.00	1.00	.993	.985	.980	.962	.954	.951	.949	.947	.945	.942	.940	.920	.916	.912	.907	.903	.896
28	1.00	1.00	1.00	1.00	.987	.982	.967	.956	.954	.951	.949	.947	.945	.942	.940	.918	.914	.909	.905	.900
29	1.00	1.00	1.00	1.00	.996	.985	.971	.958	.956	.954	.951	.949	.947	.945	.942	.940	.916	.912	.907	.903
30	1.00	1.00	1.00	1.00	.998	.993	.976	.960	.958	.956	.954	.951	.949	.947	.945	.942	.940	.914	.909	.905
31	1.00	1.00	1.00	1.00	1.00	.996	.987	.962	.960	.958	.956	.954	.951	.949	.947	.945	.942	.940	.912	.907
32	1.00	1.00	1.00	1.00	1.00	1.00	.991	.971	.962	.960	.958	.956	.954	.951	.949	.947	.945	.942	.940	.909
33	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.973	.971	.962	.960	.958	.956	.954	.951	.949	.947	.945	.942	.940
34	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.982	.973	.971	.962	.960	.958	.956	.954	.951	.949	.947	.945	.942
35	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.985	.982	.973	.971	.962	.960	.958	.956	.954	.951	.949	.947	.945
36	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.987	.985	.982	.973	.971	.962	.960	.958	.956	.954	.951	.949	.947
37	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.989	.987	.985	.982	.973	.971	.962	.960	.958	.956	.954	.951	.949
38	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.991	.989	.987	.985	.982	.973	.971	.962	.960	.958	.956	.954	.951
39	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.993	.991	.989	.987	.985	.982	.973	.971	.962	.960	.958	.956	.954
40	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.996	.993	.991	.989	.987	.985	.982	.973	.971	.962	.960	.958	.956

TOTAL OBSERVATIONS 452

TABLE 2.10 b. P(W < W\*) I LAUNCH OPPORTUNITIES IN J PERIODS (W\* = 70 M/SEC).  
BASED ON MAXIMUM WIND SPEEDS IN THE 10-15 KM LAYER OVER CAPE KENNEDY, FLORIDA.  
PERIOD OF RECORD JANUARY 1956 - DECEMBER 1963.

CAPE KENNEDY, FLORIDA FEBRUARY  
SPEEDS LESS THAN 075 M/S

PC ( I CONSECUTIVE SUCCESSES IN J PERIODS )

	I																			
J	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
1	.914																			
2	.936	.892																		
3	.951	.909	.876																	
4	.958	.927	.894	.861																
5	.965	.940	.912	.874	.850															
6	.971	.945	.929	.887	.863	.838														
7	.978	.949	.942	.900	.876	.852	.827													
8	.985	.954	.947	.914	.889	.865	.841	.816												
9	.987	.958	.951	.923	.903	.878	.854	.830	.805											
10	.989	.962	.956	.925	.916	.892	.867	.843	.819	.797										
11	.991	.965	.960	.927	.925	.905	.881	.856	.832	.805	.779									
12	.993	.967	.962	.929	.927	.918	.894	.869	.845	.819	.790	.768								
13	.996	.969	.965	.931	.929	.927	.907	.883	.858	.832	.801	.779	.757							
14	.998	.971	.967	.934	.931	.929	.920	.896	.872	.845	.812	.790	.768	.746						
15	1.00	.973	.969	.936	.934	.931	.929	.909	.885	.858	.823	.801	.779	.757	.735					
16	1.00	.976	.971	.938	.936	.934	.931	.923	.898	.872	.834	.812	.790	.768	.746	.723				
17	1.00	.978	.973	.940	.938	.936	.934	.931	.912	.885	.845	.823	.801	.779	.757	.732	.715			
18	1.00	.980	.976	.942	.940	.938	.936	.934	.925	.898	.856	.834	.812	.790	.768	.741	.723	.706		
19	1.00	.982	.978	.945	.942	.940	.938	.936	.934	.912	.867	.845	.823	.801	.779	.750	.732	.715	.697	
20	1.00	.985	.980	.947	.945	.942	.940	.938	.936	.925	.878	.856	.834	.812	.790	.759	.741	.723	.706	.686
21	1.00	.987	.982	.949	.947	.945	.942	.940	.938	.934	.889	.867	.845	.823	.801	.768	.750	.732	.715	.695
22	1.00	.989	.985	.951	.949	.947	.945	.942	.940	.936	.900	.878	.856	.834	.812	.777	.759	.741	.723	.704
23	1.00	.991	.987	.954	.951	.949	.947	.945	.942	.938	.909	.889	.867	.845	.823	.785	.768	.750	.732	.712
24	1.00	.993	.989	.956	.954	.951	.949	.947	.945	.940	.914	.900	.878	.856	.834	.794	.777	.759	.741	.721
25	1.00	.996	.991	.958	.956	.954	.951	.949	.947	.942	.918	.909	.889	.867	.845	.807	.785	.766	.750	.730
26	1.00	.998	.993	.960	.958	.956	.954	.951	.949	.945	.923	.914	.900	.878	.856	.812	.794	.777	.759	.739
27	1.00	1.00	.996	.962	.960	.958	.956	.954	.951	.947	.927	.918	.909	.889	.867	.821	.803	.785	.768	.748
28	1.00	1.00	.998	.965	.962	.960	.958	.956	.954	.949	.931	.923	.914	.900	.878	.830	.812	.794	.777	.757
29	1.00	1.00	1.00	.967	.965	.962	.960	.958	.956	.954	.936	.927	.918	.909	.889	.838	.821	.803	.785	.765
30	1.00	1.00	1.00	.969	.967	.965	.962	.960	.958	.956	.942	.931	.923	.914	.900	.847	.830	.812	.794	.774
31	1.00	1.00	1.00	.971	.969	.967	.965	.962	.960	.958	.949	.938	.927	.918	.909	.856	.838	.821	.803	.783
32	1.00	1.00	1.00	.973	.971	.969	.967	.965	.962	.960	.954	.945	.934	.923	.914	.865	.847	.830	.812	.792
33	1.00	1.00	1.00	.976	.973	.971	.969	.967	.965	.962	.958	.951	.940	.929	.918	.874	.856	.838	.821	.801
34	1.00	1.00	1.00	.978	.976	.973	.971	.969	.967	.965	.962	.956	.947	.936	.925	.881	.865	.847	.830	.810
35	1.00	1.00	1.00	.980	.978	.976	.973	.971	.969	.967	.965	.960	.954	.942	.931	.889	.874	.856	.838	.819
36	1.00	1.00	1.00	.982	.980	.978	.976	.973	.971	.969	.967	.965	.958	.949	.938	.898	.883	.865	.847	.827
37	1.00	1.00	1.00	.985	.982	.980	.978	.976	.973	.971	.969	.967	.962	.956	.945	.909	.892	.876	.856	.836
38	1.00	1.00	1.00	.987	.985	.982	.980	.978	.976	.973	.971	.969	.967	.960	.951	.918	.903	.885	.867	.849
39	1.00	1.00	1.00	.989	.987	.985	.982	.980	.978	.976	.973	.971	.969	.965	.958	.927	.914	.896	.878	.856
40	1.00	1.00	1.00	.991	.989	.987	.985	.982	.980	.978	.976	.973	.971	.969	.962	.936	.923	.907	.889	.867

TOTAL OBSERVATIONS 492

TABLE 2.11 a. P(W < W\*) I CONSECUTIVE LAUNCH OPPORTUNITIES IN J PERIODS (W\* = 75 M/SEC).  
BASED ON MAXIMUM WIND SPEEDS IN THE 10-15 KM LAYER OVER CAPE KENNEDY, FLORIDA.  
PERIOD OF RECORD JANUARY 1956 - DECEMBER 1963.

CAPE KENNEDY, FLORIDA FEBRUARY  
SPEEDS LESS THAN 075 MPS

P ( I SUCCESSSES IN J PERIODS )

	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
1	.914																			
2	.936	.892																		
3	.951	.916	.876																	
4	.958	.938	.905	.861																
5	.965	.942	.936	.889	.850															
6	.971	.947	.940	.927	.881	.838														
7	.978	.951	.945	.934	.920	.874	.827													
8	.985	.956	.949	.938	.927	.918	.867	.816												
9	.987	.965	.954	.942	.931	.925	.916	.861	.805											
10	.989	.967	.962	.947	.936	.929	.920	.916	.854	.792										
11	.991	.969	.965	.956	.940	.934	.925	.918	.916	.845	.779									
12	.993	.971	.967	.960	.947	.938	.929	.920	.918	.916	.834	.768								
13	.996	.973	.969	.965	.951	.945	.934	.923	.920	.918	.912	.825	.757							
14	.998	.976	.971	.967	.958	.949	.940	.925	.923	.920	.916	.907	.816	.746						
15	1.00	.978	.973	.969	.960	.956	.945	.929	.925	.923	.918	.914	.903	.808	.735					
16	1.00	.982	.974	.971	.962	.958	.951	.931	.929	.925	.920	.916	.912	.898	.799	.723				
17	1.00	.987	.978	.973	.965	.960	.956	.934	.931	.929	.923	.918	.914	.909	.894	.790	.715			
18	1.00	.989	.982	.976	.967	.962	.958	.938	.934	.931	.927	.920	.916	.912	.907	.887	.783	.706		
19	1.00	.991	.985	.980	.969	.965	.960	.940	.936	.934	.929	.925	.918	.914	.909	.905	.881	.777	.697	
20	1.00	.993	.987	.982	.973	.967	.962	.942	.938	.936	.934	.927	.923	.916	.912	.907	.903	.874	.770	.686
21	1.00	.996	.989	.985	.978	.969	.965	.945	.940	.938	.936	.934	.925	.920	.914	.909	.905	.900	.867	.759
22	1.00	.998	.991	.987	.982	.971	.967	.947	.942	.940	.938	.936	.934	.923	.918	.912	.907	.903	.898	.861
23	1.00	1.00	.993	.989	.985	.976	.969	.949	.945	.942	.940	.938	.936	.934	.920	.916	.909	.905	.900	.896
24	1.00	1.00	.998	.991	.987	.978	.973	.951	.947	.945	.942	.940	.938	.936	.934	.918	.914	.907	.903	.898
25	1.00	1.00	1.00	.996	.989	.980	.976	.956	.949	.947	.945	.942	.940	.938	.936	.934	.916	.912	.905	.900
26	1.00	1.00	1.00	1.00	.993	.982	.978	.960	.951	.949	.947	.945	.942	.940	.938	.936	.934	.914	.909	.903
27	1.00	1.00	1.00	1.00	1.00	.987	.980	.965	.954	.951	.949	.947	.945	.942	.940	.938	.936	.934	.912	.907
28	1.00	1.00	1.00	1.00	1.00	.996	.985	.969	.956	.954	.951	.949	.947	.945	.942	.940	.938	.936	.934	.909
29	1.00	1.00	1.00	1.00	1.00	.998	.993	.976	.958	.956	.954	.951	.949	.947	.945	.942	.940	.938	.936	.934
30	1.00	1.00	1.00	1.00	1.00	1.00	.996	.987	.962	.958	.956	.954	.951	.949	.947	.945	.942	.940	.938	.936
31	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.991	.971	.962	.958	.956	.954	.951	.949	.947	.945	.942	.940	.938
32	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.973	.971	.962	.958	.956	.954	.951	.949	.947	.945	.942	.940
33	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.985	.973	.971	.962	.958	.956	.954	.951	.949	.947	.945	.942
34	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.987	.982	.973	.971	.962	.958	.956	.954	.951	.949	.947	.945
35	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.989	.985	.982	.973	.971	.962	.958	.956	.954	.951	.949	.947
36	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.991	.987	.985	.982	.973	.971	.962	.958	.956	.954	.951	.949
37	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.993	.989	.987	.985	.982	.973	.971	.962	.958	.956	.954	.951
38	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.996	.991	.989	.987	.985	.982	.973	.971	.962	.958	.956	.954
39	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.998	.993	.991	.989	.987	.985	.982	.973	.971	.962	.958	.956
40	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.996	.993	.991	.989	.987	.985	.982	.973	.971	.962	.958	.956

TOTAL OBSERVATIONS 452

TABLE 2.11 b. P(W < W\*) I LAUNCH OPPORTUNITIES IN J PERIODS (W\* = 75 M/SEC).  
BASED ON MAXIMUM WIND SPEEDS IN THE 10-15 KM LAYER OVER CAPE KENNEDY, FLORIDA.  
PERIOD OF RECORD JANUARY 1956 - DECEMBER 1963.



CAPE KENNEDY, FLORIDA FEBRUARY  
SPEEDS LESS THAN 80 MPH

P( I CONSECUTIVE SUCCESSES IN J PERIODS )

J	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
1	.934																			
2	.951	.916																		
3	.962	.931	.903																	
4	.969	.947	.916	.892																
5	.973	.956	.929	.905	.881															
6	.978	.962	.942	.918	.892	.872														
7	.982	.969	.949	.931	.903	.881	.865													
8	.985	.976	.954	.945	.914	.889	.874	.858												
9	.987	.982	.958	.951	.925	.898	.883	.867	.852											
10	.989	.985	.962	.956	.936	.907	.892	.876	.861	.843										
11	.991	.987	.965	.960	.940	.916	.900	.885	.869	.852	.834									
12	.993	.989	.967	.962	.945	.925	.900	.894	.878	.861	.843	.825								
13	.996	.991	.969	.965	.949	.927	.918	.903	.887	.869	.852	.834	.816							
14	.998	.993	.971	.967	.954	.929	.927	.912	.896	.878	.861	.843	.825	.808						
15	1.00	.996	.973	.969	.958	.931	.929	.920	.905	.887	.869	.852	.834	.816	.799					
16	1.00	.998	.976	.971	.962	.934	.931	.929	.914	.896	.878	.861	.843	.825	.808	.790				
17	1.00	1.00	.978	.973	.967	.936	.934	.931	.923	.905	.887	.869	.852	.834	.816	.799	.783			
18	1.00	1.00	.980	.976	.971	.938	.936	.934	.931	.914	.896	.878	.861	.843	.825	.808	.792	.777		
19	1.00	1.00	.982	.978	.973	.940	.938	.936	.934	.923	.905	.887	.869	.852	.834	.816	.801	.785	.770	
20	1.00	1.00	.985	.980	.976	.942	.940	.938	.936	.931	.914	.896	.878	.861	.843	.825	.810	.794	.779	.763
21	1.00	1.00	.987	.982	.978	.945	.942	.940	.938	.934	.923	.905	.887	.869	.852	.834	.819	.803	.788	.772
22	1.00	1.00	.989	.985	.980	.947	.945	.942	.940	.936	.931	.914	.896	.878	.861	.843	.827	.812	.796	.781
23	1.00	1.00	.991	.987	.982	.949	.947	.945	.942	.938	.934	.923	.905	.887	.869	.852	.836	.821	.805	.790
24	1.00	1.00	.993	.989	.985	.951	.949	.947	.945	.940	.936	.931	.914	.896	.878	.861	.845	.830	.81	.799
25	1.00	1.00	.996	.991	.987	.954	.951	.949	.947	.942	.938	.934	.923	.905	.887	.869	.854	.838	.823	.808
26	1.00	1.00	.998	.993	.989	.956	.954	.951	.949	.945	.940	.936	.931	.914	.896	.878	.863	.847	.832	.816
27	1.00	1.00	1.00	.996	.991	.958	.956	.954	.951	.947	.942	.938	.934	.923	.905	.887	.872	.856	.841	.825
28	1.00	1.00	1.00	.998	.993	.960	.958	.956	.954	.949	.945	.940	.936	.931	.914	.896	.881	.865	.850	.834
29	1.00	1.00	1.00	1.00	.996	.962	.960	.958	.956	.954	.947	.942	.938	.934	.923	.905	.889	.874	.858	.843
30	1.00	1.00	1.00	1.00	.998	.965	.962	.960	.958	.956	.951	.945	.940	.936	.931	.914	.898	.883	.867	.852
31	1.00	1.00	1.00	1.00	1.00	.967	.965	.962	.960	.958	.956	.949	.942	.938	.934	.923	.907	.892	.876	.861
32	1.00	1.00	1.00	1.00	1.00	.969	.967	.965	.962	.960	.958	.954	.947	.940	.936	.931	.916	.900	.885	.869
33	1.00	1.00	1.00	1.00	1.00	.971	.969	.967	.965	.962	.960	.958	.951	.945	.938	.934	.925	.909	.894	.878
34	1.00	1.00	1.00	1.00	1.00	.973	.971	.969	.967	.965	.962	.960	.956	.949	.942	.936	.931	.918	.903	.887
35	1.00	1.00	1.00	1.00	1.00	.976	.973	.971	.969	.967	.965	.962	.960	.954	.947	.940	.934	.925	.912	.896
36	1.00	1.00	1.00	1.00	1.00	.978	.976	.973	.971	.969	.967	.965	.962	.958	.951	.945	.938	.931	.918	.903
37	1.00	1.00	1.00	1.00	1.00	.980	.978	.976	.973	.971	.969	.967	.965	.962	.956	.949	.942	.936	.925	.912
38	1.00	1.00	1.00	1.00	1.00	.982	.980	.978	.976	.973	.971	.969	.967	.965	.960	.954	.947	.940	.934	.918
39	1.00	1.00	1.00	1.00	1.00	.985	.982	.980	.978	.976	.973	.971	.969	.967	.965	.958	.951	.945	.938	.927
40	1.00	1.00	1.00	1.00	1.00	.987	.985	.982	.980	.978	.976	.973	.971	.969	.967	.962	.956	.949	.942	.936

TOTAL OBSERVATIONS 452

TABLE 2.12.a. P(W < W\*) I CONSECUTIVE LAUNCH OPPORTUNITIES IN J PERIODS (W\* = 80 M/SEC).  
BASED ON MAXIMUM WIND SPEEDS IN THE 10-15 KM LAYER OVER CAPE KENNEDY, FLORIDA.  
PERIOD OF RECORD JANUARY 1956 - DECEMBER 1963.

CAPF KENNEDY , FLORIDA FEBRUARY  
SPEEDS LESS THAN 080 MPS

( I SUCCESSES IN J PERIODS )  
I

J	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
1	.934																			
2	.951	.916																		
3	.962	.938	.903																	
4	.969	.951	.929	.892																
5	.973	.960	.942	.925	.881															
6	.978	.967	.949	.940	.918	.872														
7	.982	.973	.955	.945	.934	.914	.865													
8	.985	.980	.965	.949	.938	.927	.914	.858												
9	.987	.982	.971	.958	.942	.931	.925	.914	.852											
10	.989	.984	.973	.945	.951	.936	.929	.923	.914	.843										
11	.991	.987	.976	.967	.958	.945	.934	.927	.920	.912	.834									
12	.993	.989	.978	.969	.962	.949	.942	.931	.925	.914	.909	.825								
13	.996	.991	.980	.971	.967	.954	.947	.940	.929	.920	.916	.907	.816							
14	.998	.993	.982	.973	.969	.960	.951	.945	.938	.923	.918	.914	.905	.808						
15	1.00	.996	.985	.976	.971	.962	.958	.949	.942	.929	.920	.916	.912	.903	.799					
16	1.00	1.00	.937	.978	.973	.965	.960	.956	.947	.931	.927	.918	.914	.909	.900	.790				
17	1.00	1.00	.993	.980	.976	.967	.962	.958	.954	.934	.929	.925	.916	.912	.907	.898	.783			
18	1.00	1.00	.996	.987	.978	.969	.965	.960	.956	.938	.931	.927	.923	.914	.909	.905	.896	.777		
19	1.00	1.00	.998	.989	.985	.971	.967	.962	.958	.940	.934	.929	.925	.920	.912	.907	.903	.894	.770	
20	1.00	1.00	1.00	.991	.987	.978	.969	.965	.960	.942	.938	.931	.927	.923	.918	.909	.905	.900	.892	.763
21	1.00	1.00	1.00	.996	.989	.982	.973	.967	.962	.945	.940	.938	.929	.925	.920	.916	.907	.903	.898	.889
22	1.00	1.00	1.00	.998	.993	.987	.978	.969	.965	.947	.942	.940	.938	.927	.923	.918	.914	.905	.900	.896
23	1.00	1.00	1.00	1.00	.996	.991	.985	.971	.967	.949	.945	.942	.940	.938	.925	.920	.916	.912	.903	.898
24	1.00	1.00	1.00	1.00	1.00	.993	.989	.978	.969	.951	.947	.945	.942	.940	.938	.923	.918	.914	.909	.900
25	1.00	1.00	1.00	1.00	1.00	1.00	.991	.982	.976	.954	.949	.947	.945	.942	.940	.938	.920	.916	.912	.907
26	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.987	.978	.960	.951	.949	.947	.945	.942	.940	.938	.918	.914	.909
27	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.980	.965	.956	.951	.949	.947	.945	.942	.940	.938	.916	.912
28	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.996	.969	.960	.954	.951	.949	.947	.945	.942	.940	.938	.914
29	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.998	.987	.965	.956	.954	.951	.949	.947	.945	.942	.940	.938
30	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.991	.982	.958	.956	.954	.951	.949	.947	.945	.942	.940
31	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.998	.987	.973	.958	.956	.954	.951	.949	.947	.945	.942
32	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.996	.978	.971	.959	.956	.954	.951	.949	.947	.945
33	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.989	.973	.971	.958	.956	.954	.951	.949	.947
34	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.993	.985	.973	.971	.958	.956	.954	.951	.949
35	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.996	.987	.985	.973	.971	.958	.956	.954	.951
36	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.998	.989	.987	.985	.973	.971	.958	.956	.954
37	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.991	.989	.987	.985	.973	.971	.958	.956	.956
38	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.996	.991	.989	.987	.985	.973	.971	.958
39	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.998	.993	.991	.989	.987	.985	.973	.971
40	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.996	.993	.991	.989	.987	.985	.973

TOTAL OBSERVATIONS 452

TABLE 2.12. P(W < W\*) I LAUNCH OPPORTUNITIES IN J PERIODS (W\* = 80 M/SEC).  
BASED ON MAXIMUM WIND SPEEDS IN THE 10-15 KM LAYER OVER CAPE KENNEDY, FLORIDA.  
PERIOD OF RECORD JANUARY 1956 - DECEMBER 1963.

CAPE KENNEDY . FLORIDA FERRUARY  
SPEEDS LESS THAN 085 MPS

PC ( I CONSECUTIVE SUCCESSES IN J PERIODS )

J	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
1	.951																			
2	.971	.931																		
3	.982	.947	.918																	
4	.991	.962	.929	.909																
5	.996	.973	.940	.920	.900															
6	1.00	.982	.951	.931	.912	.892														
7	1.00	.987	.958	.942	.923	.898	.887													
8	1.00	.991	.962	.954	.934	.905	.894	.883												
9	1.00	.993	.967	.960	.945	.912	.900	.889	.878											
10	1.00	.996	.969	.965	.956	.918	.907	.896	.885	.872										
11	1.00	.998	.971	.967	.962	.925	.914	.903	.892	.878	.865									
12	1.00	1.00	.973	.969	.965	.931	.920	.909	.898	.885	.872	.858								
13	1.00	1.00	.976	.971	.967	.934	.927	.916	.905	.892	.878	.865	.852							
14	1.00	1.00	.978	.973	.969	.936	.934	.923	.912	.898	.885	.872	.858	.845						
15	1.00	1.00	.980	.976	.971	.938	.936	.929	.918	.905	.892	.878	.865	.852	.838					
16	1.00	1.00	.982	.978	.973	.940	.938	.936	.925	.912	.898	.885	.872	.858	.845	.832				
17	1.00	1.00	.985	.980	.976	.942	.940	.938	.931	.918	.905	.892	.878	.865	.852	.838	.827			
18	1.00	1.00	.987	.982	.978	.945	.942	.940	.938	.925	.912	.898	.885	.872	.858	.845	.834	.823		
19	1.00	1.00	.989	.985	.980	.947	.945	.942	.940	.931	.918	.905	.892	.878	.865	.852	.841	.830	.819	
20	1.00	1.00	.991	.987	.982	.949	.947	.945	.942	.938	.925	.912	.898	.885	.872	.858	.847	.836	.825	.814
21	1.00	1.00	.993	.989	.985	.951	.949	.947	.945	.940	.931	.918	.905	.892	.878	.865	.854	.843	.832	.821
22	1.00	1.00	.996	.991	.987	.954	.951	.949	.947	.942	.938	.925	.912	.898	.885	.872	.861	.850	.838	.827
23	1.00	1.00	.998	.993	.989	.956	.954	.951	.949	.945	.940	.931	.918	.905	.892	.878	.867	.856	.845	.834
24	1.00	1.00	1.00	.996	.991	.958	.956	.954	.951	.947	.942	.938	.925	.912	.898	.885	.874	.863	.852	.841
25	1.00	1.00	1.00	.998	.993	.960	.958	.956	.954	.949	.945	.940	.931	.918	.905	.892	.881	.869	.858	.847
26	1.00	1.00	1.00	1.00	.996	.962	.960	.958	.956	.951	.947	.942	.938	.925	.912	.898	.887	.876	.865	.854
27	1.00	1.00	1.00	1.00	.998	.965	.962	.960	.958	.954	.949	.945	.940	.931	.918	.905	.894	.883	.872	.861
28	1.00	1.00	1.00	1.00	1.00	.967	.965	.962	.960	.956	.951	.947	.942	.938	.925	.912	.900	.889	.878	.867
29	1.00	1.00	1.00	1.00	1.00	.969	.967	.965	.962	.960	.954	.949	.945	.940	.931	.918	.907	.896	.885	.874
30	1.00	1.00	1.00	1.00	1.00	.971	.969	.967	.965	.962	.958	.951	.947	.942	.938	.925	.914	.903	.892	.881
31	1.00	1.00	1.00	1.00	1.00	.973	.971	.969	.967	.965	.962	.956	.949	.945	.940	.931	.920	.909	.898	.887
32	1.00	1.00	1.00	1.00	1.00	.976	.973	.971	.969	.967	.965	.960	.954	.947	.942	.938	.927	.916	.905	.894
33	1.00	1.00	1.00	1.00	1.00	.978	.976	.973	.971	.969	.967	.965	.958	.951	.945	.940	.934	.923	.912	.900
34	1.00	1.00	1.00	1.00	1.00	.980	.978	.976	.973	.971	.969	.967	.962	.956	.949	.942	.938	.929	.918	.907
35	1.00	1.00	1.00	1.00	1.00	.982	.980	.978	.976	.973	.971	.969	.967	.960	.954	.947	.940	.934	.925	.914
36	1.00	1.00	1.00	1.00	1.00	.985	.982	.980	.978	.976	.973	.971	.969	.965	.958	.951	.945	.938	.929	.920
37	1.00	1.00	1.00	1.00	1.00	.987	.985	.982	.980	.978	.976	.973	.971	.969	.962	.956	.949	.942	.934	.925
38	1.00	1.00	1.00	1.00	1.00	.989	.987	.985	.982	.980	.978	.976	.973	.971	.967	.960	.954	.947	.940	.929
39	1.00	1.00	1.00	1.00	1.00	.991	.989	.987	.985	.982	.980	.978	.976	.973	.971	.965	.958	.951	.945	.936
40	1.00	1.00	1.00	1.00	1.00	.993	.991	.989	.987	.985	.982	.980	.978	.976	.973	.969	.962	.956	.949	.942

TOTAL OBSERVATIONS 452

TABLE 2.13.a. P(W < W\*) I CONSECUTIVE LAUNCH OPPORTUNITIES IN J PERIODS (W\* = 85 M/SEC).  
BASED ON MAXIMUM WIND SPEEDS IN THE 10-15 KM LAYER OVER CAPE KENNEDY, FLORIDA.

PERIOD OF RECORD JANUARY 1956 - DECEMBER 1963.

CAPE KENNEDY, FLORIDA FEBRUARY  
SPEEDS LESS THAN 085 MPS

P ( I SUCCESSES IN J PERIODS )

J	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
1	.951																			
2	.971	.931																		
3	.982	.956	.918																	
4	.991	.971	.940	.909																
5	.996	.985	.956	.934	.900															
6	1.00	.989	.971	.949	.929	.892														
7	1.00	.998	.978	.965	.945	.920	.887													
8	1.00	1.00	.987	.973	.958	.934	.920	.883												
9	1.00	1.00	.993	.982	.965	.947	.931	.920	.878											
10	1.00	1.00	.998	.987	.973	.956	.942	.929	.920	.872										
11	1.00	1.00	1.00	.993	.976	.967	.951	.938	.927	.920	.865									
12	1.00	1.00	1.00	.998	.982	.971	.962	.945	.936	.925	.920	.858								
13	1.00	1.00	1.00	1.00	.989	.978	.967	.956	.942	.934	.923	.918	.852							
14	1.00	1.00	1.00	1.00	.996	.985	.973	.960	.954	.940	.929	.920	.916	.845						
15	1.00	1.00	1.00	1.00	1.00	.991	.978	.967	.958	.951	.934	.927	.918	.914	.838					
16	1.00	1.00	1.00	1.00	1.00	1.00	.982	.971	.965	.956	.942	.931	.925	.916	.912	.832				
17	1.00	1.00	1.00	1.00	1.00	1.00	.993	.978	.967	.962	.947	.938	.929	.923	.914	.909	.827			
18	1.00	1.00	1.00	1.00	1.00	1.00	.996	.991	.971	.965	.954	.942	.934	.927	.920	.912	.907	.823		
19	1.00	1.00	1.00	1.00	1.00	1.00	.998	.993	.987	.967	.958	.947	.936	.931	.925	.918	.909	.905	.819	
20	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.996	.991	.980	.962	.954	.938	.934	.929	.923	.916	.907	.903	.814
21	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.993	.987	.976	.958	.945	.936	.931	.927	.920	.914	.905	.900
22	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.991	.982	.971	.947	.945	.934	.929	.925	.918	.912	.903
23	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.989	.976	.958	.947	.945	.931	.927	.923	.916	.909
24	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.982	.965	.954	.947	.945	.929	.925	.920	.914
25	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.996	.973	.958	.954	.947	.945	.927	.923	.918
26	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.998	.989	.967	.956	.954	.947	.945	.925	.920
27	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.993	.982	.962	.956	.954	.947	.945	.923
28	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.987	.978	.960	.956	.954	.947	.945
29	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.998	.982	.976	.958	.956	.954	.947
30	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.993	.980	.971	.958	.956	.954
31	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.998	.993	.973	.971	.958
32	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.996	.987	.973	.971	.958
33	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.989	.987	.973	.971
34	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.993	.989	.987	.973
35	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.991	.989	.987	
36	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.990	.993	.991	.989
37	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.996	.993	.991
38	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.996	.993	
39	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.996
40	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00

TOTAL OBSERVATIONS 452

TABLE 2.13.b. P(W < W\*) I LAUNCH OPPORTUNITIES IN J PERIODS (W\* = 85 M/SEC).  
BASED ON MAXIMUM WIND SPEEDS IN THE 10-15 KM LAYER OVER CAPE KENNEDY, FLORIDA.  
PERIOD OF RECORD JANUARY 1956 - DECEMBER 1963.

CAPE KENNEDY, FLORIDA FEBRUARY  
SPEEDS LESS THAN 090 MPS

PC ( 1 CONSECUTIVE SUCCESSSES IN J PERIODS )

	I																			
J	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
1	.962																			
2	.978	.947																		
3	.989	.962	.931																	
4	.996	.978	.942	.923																
5	1.00	.989	.954	.934	.914															
6	1.00	.996	.965	.945	.923	.907														
7	1.00	1.00	.973	.956	.931	.912	.905													
8	1.00	1.00	.978	.967	.940	.916	.909	.903												
9	1.00	1.00	.982	.976	.949	.920	.914	.907	.900											
10	1.00	1.00	.985	.980	.958	.925	.918	.912	.905	.898										
11	1.00	1.00	.987	.982	.965	.929	.923	.916	.909	.902	.896									
12	1.00	1.00	.989	.985	.967	.934	.927	.920	.914	.907	.900	.894								
13	1.00	1.00	.991	.987	.969	.936	.931	.925	.918	.912	.905	.898	.892							
14	1.00	1.00	.993	.989	.971	.938	.936	.929	.923	.916	.909	.903	.896	.887						
15	1.00	1.00	.996	.991	.973	.940	.938	.934	.927	.920	.914	.907	.900	.892	.883					
16	1.00	1.00	.998	.993	.976	.942	.940	.938	.931	.925	.918	.912	.905	.896	.887	.878				
17	1.00	1.00	1.00	.996	.978	.945	.942	.940	.936	.929	.923	.916	.909	.902	.892	.883	.876			
18	1.00	1.00	1.00	.998	.980	.947	.945	.942	.940	.936	.927	.920	.914	.905	.896	.887	.881	.874		
19	1.00	1.00	1.00	1.00	.982	.949	.947	.945	.942	.938	.931	.925	.918	.909	.900	.892	.885	.878	.872	
20	1.00	1.00	1.00	1.00	.985	.951	.949	.947	.945	.942	.936	.929	.923	.914	.905	.896	.889	.883	.876	.869
21	1.00	1.00	1.00	1.00	.987	.954	.951	.949	.947	.945	.940	.934	.927	.918	.909	.900	.894	.887	.881	.874
22	1.00	1.00	1.00	1.00	.989	.956	.954	.951	.949	.947	.945	.938	.931	.923	.914	.905	.898	.892	.885	.878
23	1.00	1.00	1.00	1.00	.991	.958	.956	.954	.951	.949	.947	.942	.936	.927	.918	.909	.903	.896	.889	.883
24	1.00	1.00	1.00	1.00	.993	.960	.959	.956	.954	.951	.949	.947	.940	.931	.923	.914	.907	.900	.894	.887
25	1.00	1.00	1.00	1.00	.995	.962	.960	.958	.956	.954	.951	.949	.945	.936	.927	.918	.912	.905	.898	.892
26	1.00	1.00	1.00	1.00	.998	.965	.962	.960	.958	.956	.954	.951	.949	.940	.931	.923	.916	.909	.903	.896
27	1.00	1.00	1.00	1.00	1.00	.967	.965	.962	.960	.958	.956	.954	.951	.945	.936	.927	.920	.914	.907	.900
28	1.00	1.00	1.00	1.00	1.00	.969	.967	.965	.962	.960	.958	.956	.954	.949	.940	.931	.925	.918	.912	.905
29	1.00	1.00	1.00	1.00	1.00	.971	.969	.967	.965	.962	.960	.958	.956	.951	.945	.936	.929	.923	.916	.909
30	1.00	1.00	1.00	1.00	1.00	.973	.971	.969	.967	.965	.962	.960	.958	.954	.949	.940	.934	.927	.920	.914
31	1.00	1.00	1.00	1.00	1.00	.976	.973	.971	.969	.967	.965	.962	.960	.956	.951	.945	.938	.931	.925	.918
32	1.00	1.00	1.00	1.00	1.00	.978	.976	.973	.971	.969	.967	.965	.962	.960	.954	.949	.942	.936	.929	.923
33	1.00	1.00	1.00	1.00	1.00	.980	.978	.976	.973	.971	.969	.967	.965	.962	.958	.951	.947	.940	.934	.927
34	1.00	1.00	1.00	1.00	1.00	.982	.980	.978	.976	.973	.971	.969	.967	.965	.962	.956	.949	.945	.938	.931
35	1.00	1.00	1.00	1.00	1.00	.985	.982	.980	.978	.976	.973	.971	.969	.967	.965	.960	.954	.947	.942	.936
36	1.00	1.00	1.00	1.00	1.00	.987	.985	.982	.980	.978	.976	.973	.971	.969	.967	.965	.958	.951	.945	.940
37	1.00	1.00	1.00	1.00	1.00	.989	.987	.985	.982	.980	.978	.976	.973	.971	.969	.967	.962	.956	.949	.942
38	1.00	1.00	1.00	1.00	1.00	.991	.989	.987	.985	.982	.980	.978	.976	.973	.971	.969	.967	.960	.954	.947
39	1.00	1.00	1.00	1.00	1.00	.993	.991	.989	.987	.985	.982	.980	.978	.976	.973	.971	.969	.965	.958	.951
40	1.00	1.00	1.00	1.00	1.00	.996	.993	.991	.989	.987	.985	.982	.980	.978	.976	.973	.971	.969	.962	.956

TOTAL OBSERVATIONS 452

TABLE 2.14.a. P(W < W\*) I CONSECUTIVE LAUNCH OPPORTUNITIES IN J PERIODS (W\* = 90 M/SEC).  
BASED ON MAXIMUM WIND SPEEDS IN THE 10-15 KM LAYER OVER CAPE KENNEDY, FLORIDA.  
PERIOD OF RECORD JANUARY 1956 - DECEMBER 1963.

CAPE KENNEDY, FLORIDA FERRIADY  
SPEEDS LESS THAN 90 MPS

P ( I SUCCESSFUL IN J PERIODS )

I

J	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	
1	.962																				
2	.978	.947																			
3	.989	.967	.931																		
4	.996	.982	.951	.923																	
5	1.00	.991	.969	.945	.914																
6	1.00	1.00	.978	.967	.936	.907															
7	1.00	1.00	.991	.976	.962	.925	.905														
8	1.00	1.00	.996	.987	.973	.949	.923	.903													
9	1.00	1.00	.998	.993	.982	.962	.942	.923	.900												
10	1.00	1.00	1.00	.996	.989	.973	.954	.940	.923	.898											
11	1.00	1.00	1.00	1.00	.991	.985	.962	.949	.938	.923	.896										
12	1.00	1.00	1.00	1.00	.998	.989	.976	.954	.947	.936	.923	.894									
13	1.00	1.00	1.00	1.00	1.00	.996	.985	.965	.951	.945	.934	.923	.892								
14	1.00	1.00	1.00	1.00	1.00	1.00	.993	.976	.960	.949	.940	.934	.923	.887							
15	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.987	.969	.958	.942	.940	.934	.920	.883						
16	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.998	.978	.967	.949	.942	.940	.931	.918	.878					
17	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.991	.973	.958	.947	.942	.938	.929	.916	.876				
18	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.998	.985	.967	.954	.945	.940	.936	.927	.914	.874			
19	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.993	.978	.962	.947	.945	.938	.934	.925	.912	.872		
20	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.989	.971	.954	.947	.945	.936	.931	.923	.909	.869	
21	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.985	.958	.954	.947	.945	.934	.929	.920	.907	
22	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.971	.956	.954	.947	.945	.931	.927	.918	
23	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.993	.962	.956	.954	.947	.945	.929	.925	
24	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.996	.987	.958	.956	.954	.947	.945	.927	
25	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.998	.991	.980	.958	.956	.954	.947	.945	
26	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.996	.985	.978	.958	.956	.954	.947	
27	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.991	.982	.976	.958	.956	.954	
28	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.998	.991	.980	.973	.958	.956	
29	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.996	.991	.978	.971	.958	
30	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.993	.991	.973	.971	
31	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.993	.987	.973	
32	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.989	.987	
33	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.996	.989
34	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.998	.993
35	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.996
36	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
37	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
38	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
39	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
40	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00

TOTAL OBSERVATIONS 452

TABLE 2.14.b. P(W < W\*) I LAUNCH OPPORTUNITIES IN J PERIODS (W\* = 90 M/SEC).  
BASED ON MAXIMUM WIND SPEEDS IN THE 10-15 KM LAYER OVER CAPE KENNEDY, FLORIDA.  
PERIOD OF RECORD JANUARY 1956 - DECEMBER 1963.

CAPE KENNEDY, FLORIDA MARCH  
SPEEDS LESS THAN 025 MPH

PC ( I CONSECUTIVE SUCCESSES IN J PERIODS )

	I																			
J	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
1	.024																			
2	.038	.010																		
3	.048	.016	.006																	
4	.058	.022	.010	.004																
5	.069	.028	.014	.008	.000															
6	.079	.034	.018	.012	.000	.000														
7	.089	.040	.022	.016	.000	.000	.000													
8	.099	.046	.026	.020	.000	.000	.000	.000												
9	.109	.052	.030	.024	.000	.000	.000	.000	.000											
10	.117	.058	.034	.028	.000	.000	.000	.000	.000	.000										
11	.125	.063	.038	.032	.002	.000	.000	.000	.000	.000	.000									
12	.133	.067	.040	.036	.004	.002	.000	.000	.000	.000	.000	.000								
13	.141	.071	.042	.038	.006	.004	.000	.000	.000	.000	.000	.000	.000							
14	.147	.075	.044	.040	.008	.006	.000	.000	.000	.000	.000	.000	.000	.000						
15	.153	.079	.046	.042	.010	.008	.000	.000	.000	.000	.000	.000	.000	.000	.000					
16	.157	.081	.048	.044	.012	.010	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000				
17	.163	.083	.050	.046	.014	.012	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000			
18	.169	.085	.052	.048	.016	.014	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000		
19	.175	.087	.054	.050	.018	.016	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	
20	.181	.091	.056	.052	.020	.018	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
21	.188	.095	.060	.054	.022	.020	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
22	.194	.099	.065	.058	.024	.022	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
23	.200	.103	.069	.063	.028	.024	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
24	.206	.107	.073	.067	.032	.026	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
25	.212	.111	.077	.071	.036	.028	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
26	.218	.115	.081	.075	.040	.030	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
27	.226	.119	.085	.079	.044	.032	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
28	.234	.123	.089	.083	.048	.034	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
29	.242	.127	.093	.087	.052	.036	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
30	.250	.131	.097	.091	.056	.038	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
31	.258	.135	.101	.095	.060	.040	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
32	.266	.139	.105	.099	.065	.042	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
33	.274	.143	.109	.103	.069	.044	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
34	.282	.149	.113	.107	.073	.046	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
35	.290	.155	.119	.111	.077	.048	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
36	.298	.161	.125	.117	.081	.050	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
37	.306	.167	.131	.123	.087	.052	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
38	.315	.173	.137	.129	.093	.054	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
39	.323	.179	.143	.135	.099	.056	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
40	.331	.185	.149	.141	.105	.058	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000

TOTAL OBSERVATIONS 496

TABLE 3. 1.a. P(W < W\*) I CONSECUTIVE LAUNCH OPPORTUNITIES IN J PERIODS (W\* = 25 M/SEC).  
BASED ON MAXIMUM WIND SPEEDS IN THE 10-15 KM LAYER OVER CAPE KENNEDY, FLORIDA.  
PERIOD OF RECORD JANUARY 1956 - DECEMBER 1963.

CAPE KENNEDY, FLORIDA MARCH

SPEEDS LESS THAN 025 MPS

P ( I SUCCESSES IN J PERIODS )

	I																			
J	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
1	.024																			
2	.038	.010																		
3	.048	.020	.006																	
4	.058	.028	.012	.004																
5	.069	.034	.018	.010	.000															
6	.079	.040	.022	.016	.002	.000														
7	.089	.046	.026	.020	.008	.000	.000													
8	.099	.052	.030	.024	.012	.004	.000	.000												
9	.109	.058	.034	.028	.016	.008	.002	.000	.000											
10	.117	.065	.038	.032	.020	.012	.004	.002	.000	.000										
11	.125	.069	.042	.036	.024	.016	.006	.004	.002	.000	.000									
12	.133	.073	.044	.040	.028	.020	.008	.006	.004	.002	.000	.000								
13	.141	.077	.046	.042	.032	.024	.010	.008	.006	.004	.000	.000	.000							
14	.147	.083	.048	.044	.036	.028	.012	.010	.008	.006	.000	.000	.000	.000						
15	.153	.085	.054	.046	.038	.032	.014	.012	.010	.008	.000	.000	.000	.000	.000					
16	.157	.087	.056	.052	.040	.036	.016	.014	.012	.010	.000	.000	.000	.000	.000	.000				
17	.163	.089	.058	.054	.046	.038	.018	.016	.014	.012	.000	.000	.000	.000	.000	.000	.000			
18	.169	.091	.060	.056	.050	.042	.020	.018	.016	.014	.000	.000	.000	.000	.000	.000	.000	.000		
19	.175	.095	.063	.058	.054	.046	.022	.020	.018	.014	.000	.000	.000	.000	.000	.000	.000	.000	.000	
20	.181	.099	.067	.060	.056	.052	.024	.022	.020	.018	.002	.000	.000	.000	.000	.000	.000	.000	.000	.000
21	.188	.103	.071	.065	.058	.054	.030	.024	.022	.020	.004	.000	.000	.000	.000	.000	.000	.000	.000	.000
22	.194	.107	.075	.069	.065	.056	.032	.030	.024	.022	.006	.000	.000	.000	.000	.000	.000	.000	.000	.000
23	.200	.111	.079	.073	.067	.060	.034	.032	.030	.024	.008	.000	.000	.000	.000	.000	.000	.000	.000	.000
24	.206	.115	.083	.077	.071	.065	.036	.034	.032	.030	.010	.000	.000	.000	.000	.000	.000	.000	.000	.000
25	.212	.119	.087	.081	.075	.069	.038	.036	.034	.032	.016	.000	.000	.000	.000	.000	.000	.000	.000	.000
26	.218	.123	.091	.085	.079	.073	.040	.038	.036	.034	.020	.002	.000	.000	.000	.000	.000	.000	.000	.000
27	.226	.127	.095	.089	.083	.077	.042	.040	.038	.036	.024	.004	.000	.000	.000	.000	.000	.000	.000	.000
28	.234	.131	.099	.093	.087	.081	.044	.042	.040	.038	.028	.006	.000	.000	.000	.000	.000	.000	.000	.000
29	.242	.135	.103	.097	.091	.085	.046	.044	.042	.040	.032	.008	.000	.000	.000	.000	.000	.000	.000	.000
30	.250	.139	.107	.101	.095	.089	.048	.046	.044	.042	.036	.010	.000	.000	.000	.000	.000	.000	.000	.000
31	.258	.143	.111	.105	.099	.093	.050	.048	.046	.044	.040	.012	.000	.000	.000	.000	.000	.000	.000	.000
32	.266	.147	.115	.109	.103	.097	.052	.050	.048	.046	.044	.014	.000	.000	.000	.000	.000	.000	.000	.000
33	.274	.153	.119	.113	.107	.101	.054	.052	.050	.048	.046	.018	.000	.000	.000	.000	.000	.000	.000	.000
34	.282	.159	.125	.117	.111	.105	.056	.054	.052	.050	.048	.022	.002	.000	.000	.000	.000	.000	.000	.000
35	.290	.165	.131	.123	.115	.109	.058	.056	.054	.052	.050	.026	.006	.000	.000	.000	.000	.000	.000	.000
36	.298	.171	.137	.129	.121	.113	.060	.058	.056	.054	.052	.030	.010	.002	.000	.000	.000	.000	.000	.000
37	.306	.177	.143	.135	.127	.119	.063	.060	.058	.056	.054	.034	.014	.004	.002	.000	.000	.000	.000	.000
38	.315	.183	.149	.141	.133	.125	.065	.063	.060	.058	.056	.038	.018	.006	.004	.000	.000	.000	.000	.000
39	.323	.190	.155	.147	.139	.131	.067	.065	.063	.060	.058	.042	.022	.008	.006	.000	.000	.000	.000	.000
40	.331	.196	.161	.153	.145	.137	.069	.067	.065	.063	.060	.046	.026	.010	.008	.002	.000	.000	.000	.000

TOTAL OBSERVATIONS 496

TABLE 3. 1.b. P(N < W) I LAUNCH OPPORTUNITIES IN J PERIODS (W = 25 M/SEC).  
 BASED ON MAXIMUM WIND SPEEDS IN THE 10-15 KM LAYER OVER CAPE KENNEDY, FLORIDA.  
 PERIOD OF RECORD JANUARY 1956 - DECEMBER 1963.



CAPE KENNEDY, FLORIDA MARCH  
SPEEDS LESS THAN 030 MPS

PC ( I CONSECUTIVE SUCCESSSES IN J PERIODS )

	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
1	.060																			
2	.079	.042																		
3	.097	.056	.028																	
4	.113	.071	.036	.022																
5	.129	.085	.044	.028	.018															
6	.145	.099	.052	.034	.024	.012														
7	.161	.115	.040	.040	.030	.018	.006													
8	.177	.131	.069	.046	.036	.024	.008	.004												
9	.194	.147	.077	.052	.042	.030	.010	.008	.002											
10	.208	.163	.085	.058	.048	.034	.012	.008	.004	.000										
11	.222	.175	.093	.065	.054	.042	.014	.010	.006	.000	.000									
12	.236	.188	.099	.071	.060	.050	.016	.012	.008	.000	.000	.000								
13	.250	.200	.103	.075	.067	.056	.018	.014	.010	.000	.000	.000	.000							
14	.264	.212	.107	.079	.071	.063	.020	.016	.012	.000	.000	.000	.000	.000						
15	.276	.224	.111	.081	.075	.067	.022	.018	.014	.000	.000	.000	.000	.000	.000					
16	.288	.234	.115	.083	.079	.071	.022	.020	.016	.000	.000	.000	.000	.000	.000	.000				
17	.302	.244	.119	.085	.081	.075	.022	.020	.018	.000	.000	.000	.000	.000	.000	.000	.000			
18	.317	.256	.123	.087	.083	.079	.022	.020	.018	.000	.000	.000	.000	.000	.000	.000	.000	.000		
19	.331	.268	.129	.089	.085	.081	.022	.020	.018	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	
20	.345	.280	.135	.093	.087	.083	.022	.020	.018	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
21	.359	.292	.141	.097	.091	.085	.022	.020	.018	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
22	.371	.304	.147	.101	.095	.089	.022	.020	.018	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
23	.383	.317	.153	.105	.099	.093	.024	.020	.018	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
24	.391	.329	.159	.109	.103	.097	.026	.020	.018	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
25	.399	.339	.165	.113	.107	.101	.028	.020	.018	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
26	.407	.347	.169	.117	.111	.105	.030	.020	.018	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
27	.415	.355	.175	.121	.115	.109	.032	.020	.018	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
28	.423	.363	.179	.127	.119	.113	.034	.020	.018	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
29	.431	.371	.183	.133	.123	.117	.036	.020	.018	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
30	.440	.379	.188	.139	.127	.121	.038	.020	.018	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
31	.448	.387	.192	.145	.131	.125	.040	.020	.018	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
32	.456	.395	.196	.151	.135	.129	.042	.020	.018	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
33	.466	.403	.200	.157	.139	.133	.044	.020	.018	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
34	.476	.413	.204	.163	.143	.137	.046	.020	.018	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
35	.486	.423	.210	.169	.147	.141	.048	.020	.018	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
36	.496	.433	.216	.177	.151	.145	.050	.020	.018	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
37	.506	.444	.222	.185	.157	.149	.052	.020	.018	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
38	.514	.454	.228	.194	.163	.155	.054	.020	.018	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
39	.522	.464	.234	.202	.169	.161	.058	.020	.018	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
40	.532	.472	.240	.210	.175	.167	.063	.022	.018	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000

TOTAL OBSERVATIONS 496

TABLE 3. 2.a. P(W < W0) I CONSECUTIVE LAUNCH OPPORTUNITIES IN J PERIODS (W0 = 30 M/SEC).  
BASED ON MAXIMUM WIND SPEEDS IN THE 10-15 KM LAYER OVER CAPE KENNEDY, FLORIDA.

PERIOD OF RECORD JANUARY 1956 - DECEMBER 1963.

CAPE KENNEDY, FLORIDA MARCH  
SPEEDS LESS THAN 30 MPH

P ( I SUCCESSFUL J PERIODS )

	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
1	.060																			
2	.079	.042																		
3	.097	.056	.028																	
4	.113	.073	.036	.022																
5	.129	.087	.046	.028	.018															
6	.145	.103	.054	.036	.024	.012														
7	.161	.119	.065	.042	.032	.020	.006													
8	.177	.135	.073	.050	.038	.028	.012	.004												
9	.194	.149	.083	.054	.046	.034	.018	.010	.002											
10	.208	.163	.089	.067	.052	.042	.024	.014	.008	.000										
11	.222	.175	.095	.071	.065	.048	.030	.020	.012	.004	.000									
12	.236	.188	.099	.075	.069	.063	.036	.024	.018	.006	.004	.000								
13	.250	.200	.103	.077	.073	.067	.052	.028	.022	.010	.006	.002	.000							
14	.264	.212	.107	.079	.075	.071	.056	.044	.026	.012	.010	.004	.000	.000						
15	.276	.224	.111	.081	.077	.073	.060	.050	.040	.014	.012	.008	.000	.000	.000					
16	.288	.234	.115	.083	.079	.075	.063	.054	.048	.024	.014	.010	.002	.000	.000	.000				
17	.302	.244	.119	.085	.081	.077	.065	.056	.052	.032	.022	.012	.004	.000	.000	.000	.000			
18	.317	.256	.123	.087	.083	.079	.067	.058	.054	.034	.032	.020	.006	.000	.000	.000	.000	.000		
19	.331	.268	.129	.089	.085	.081	.069	.060	.056	.034	.034	.022	.014	.000	.000	.000	.000	.000	.000	
20	.345	.280	.135	.093	.087	.083	.071	.063	.058	.038	.036	.034	.030	.004	.000	.000	.000	.000	.000	.000
21	.359	.292	.141	.097	.091	.085	.073	.065	.060	.040	.038	.036	.034	.018	.004	.000	.000	.000	.000	.000
22	.371	.306	.147	.101	.095	.089	.075	.067	.063	.042	.040	.038	.036	.024	.016	.004	.000	.000	.000	.000
23	.383	.319	.155	.105	.099	.093	.079	.069	.065	.044	.042	.040	.038	.028	.022	.014	.004	.000	.000	.000
24	.391	.333	.163	.109	.103	.097	.083	.071	.057	.046	.044	.042	.040	.032	.026	.020	.012	.002	.000	.000
25	.399	.341	.177	.113	.107	.101	.087	.075	.069	.048	.046	.044	.042	.036	.030	.024	.018	.008	.000	.000
26	.407	.349	.183	.125	.111	.105	.091	.079	.071	.050	.048	.046	.044	.040	.034	.028	.022	.014	.002	.000
27	.415	.357	.190	.131	.123	.109	.095	.083	.073	.052	.050	.048	.046	.042	.040	.032	.026	.018	.006	.000
28	.423	.365	.196	.137	.129	.121	.099	.087	.075	.054	.052	.050	.048	.044	.042	.040	.030	.022	.010	.000
29	.431	.373	.202	.143	.135	.127	.109	.091	.077	.053	.054	.052	.050	.044	.044	.042	.040	.026	.014	.000
30	.440	.381	.208	.149	.141	.133	.115	.099	.079	.058	.056	.054	.052	.048	.046	.044	.042	.038	.018	.000
31	.448	.389	.214	.155	.147	.139	.121	.105	.083	.060	.058	.056	.054	.050	.048	.046	.044	.040	.032	.000
32	.456	.397	.220	.161	.153	.145	.127	.111	.087	.063	.060	.058	.056	.052	.050	.048	.046	.042	.034	.012
33	.466	.405	.226	.167	.159	.151	.135	.117	.091	.069	.063	.060	.058	.054	.052	.050	.048	.044	.036	.014
34	.476	.414	.232	.173	.165	.157	.141	.127	.095	.067	.065	.063	.060	.056	.054	.052	.050	.048	.038	.016
35	.486	.425	.240	.179	.171	.163	.147	.135	.103	.069	.067	.065	.063	.058	.056	.054	.052	.050	.044	.018
36	.496	.435	.248	.188	.177	.169	.153	.143	.109	.075	.069	.067	.065	.060	.058	.056	.054	.052	.048	.024
37	.506	.444	.256	.195	.183	.175	.159	.149	.117	.081	.073	.069	.067	.063	.060	.058	.056	.054	.052	.028
38	.514	.458	.264	.204	.190	.181	.165	.155	.121	.091	.077	.073	.069	.065	.063	.060	.058	.056	.054	.034
39	.522	.466	.276	.212	.196	.188	.171	.161	.125	.095	.087	.077	.073	.067	.065	.063	.060	.058	.056	.038
40	.532	.474	.286	.222	.202	.194	.177	.167	.129	.099	.091	.087	.077	.071	.067	.065	.063	.060	.058	.042

TOTAL OBSERVATIONS 496

TABLE 3. 2.b. P(M < W\*) I LAUNCH OPPORTUNITIES IN J PERIODS (W\* = 30 M/SEC).  
BASED ON MAXIMUM WIND SPEEDS IN THE 10-15 KM LAYER OVER CAPE KENNEDY, FLORIDA.  
PERIOD OF RECORD JANUARY 1956 - DECEMBER 1963.

CAPE KENNEDY, FLORIDA MARCH  
SPEEDS LESS THAN 035 MPS

PC ( I CONSECUTIVE SUCCESSES IN J PERIODS )

	I																			
J	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
1	.117																			
2	.155	.083																		
3	.190	.107	.058																	
4	.222	.131	.077	.042																
5	.254	.153	.095	.052	.034															
6	.284	.175	.113	.063	.042	.028														
7	.315	.200	.129	.073	.050	.036	.022													
8	.341	.222	.147	.083	.058	.044	.028	.018												
9	.367	.242	.165	.093	.067	.052	.034	.022	.016											
10	.389	.260	.179	.103	.075	.060	.040	.026	.020	.014										
11	.409	.276	.194	.111	.083	.069	.046	.030	.024	.018	.012									
12	.429	.292	.208	.117	.089	.077	.052	.034	.028	.022	.016	.010								
13	.450	.308	.222	.125	.095	.084	.058	.038	.032	.026	.020	.012	.010							
14	.466	.323	.236	.129	.099	.089	.063	.042	.036	.030	.024	.018	.012	.008						
15	.480	.337	.250	.135	.103	.095	.067	.044	.040	.034	.028	.016	.014	.010	.006					
16	.494	.347	.264	.141	.107	.099	.071	.046	.042	.038	.032	.018	.016	.012	.008	.004				
17	.508	.357	.276	.147	.111	.103	.075	.048	.044	.040	.036	.020	.018	.014	.010	.006	.002			
18	.520	.369	.288	.153	.115	.107	.077	.050	.046	.042	.038	.022	.020	.016	.012	.008	.004	.000		
19	.532	.381	.302	.159	.119	.111	.079	.052	.048	.044	.040	.024	.022	.018	.014	.010	.006	.000	.000	
20	.544	.391	.317	.167	.123	.115	.081	.054	.050	.046	.042	.026	.024	.020	.016	.012	.008	.000	.000	.000
21	.556	.401	.331	.175	.129	.119	.083	.056	.052	.048	.044	.028	.026	.022	.018	.014	.010	.000	.000	.000
22	.569	.411	.345	.183	.135	.125	.085	.058	.054	.050	.046	.030	.028	.024	.020	.016	.012	.000	.000	.000
23	.581	.419	.359	.192	.141	.131	.089	.060	.056	.052	.048	.032	.030	.026	.022	.018	.014	.000	.000	.000
24	.593	.427	.371	.200	.147	.137	.093	.065	.058	.054	.050	.034	.032	.028	.024	.020	.016	.000	.000	.000
25	.605	.435	.381	.208	.153	.143	.097	.069	.063	.056	.052	.036	.034	.030	.026	.022	.018	.000	.000	.000
26	.617	.444	.389	.214	.159	.149	.101	.073	.067	.060	.054	.038	.036	.032	.028	.024	.020	.000	.000	.000
27	.629	.452	.397	.218	.165	.155	.105	.077	.071	.065	.056	.040	.038	.034	.030	.026	.022	.000	.000	.000
28	.641	.460	.405	.224	.167	.161	.109	.081	.075	.069	.058	.042	.040	.036	.032	.028	.024	.000	.000	.000
29	.651	.468	.413	.230	.169	.165	.113	.085	.079	.073	.060	.044	.042	.038	.034	.030	.026	.000	.000	.000
30	.661	.476	.421	.236	.171	.167	.117	.089	.083	.077	.063	.046	.044	.040	.036	.032	.028	.000	.000	.000
31	.669	.484	.429	.242	.173	.169	.121	.093	.087	.081	.065	.048	.046	.042	.038	.034	.030	.000	.000	.000
32	.679	.492	.438	.248	.175	.171	.125	.097	.091	.085	.067	.050	.048	.044	.040	.036	.032	.000	.000	.000
33	.690	.502	.446	.254	.177	.173	.129	.101	.095	.089	.069	.052	.050	.046	.042	.038	.034	.000	.000	.000
34	.700	.512	.456	.260	.179	.175	.133	.105	.099	.093	.071	.054	.052	.048	.044	.040	.036	.000	.000	.000
35	.710	.522	.466	.268	.181	.177	.137	.109	.103	.097	.073	.056	.054	.050	.046	.042	.038	.000	.000	.000
36	.720	.532	.476	.276	.185	.179	.141	.113	.107	.101	.075	.058	.056	.052	.048	.044	.040	.000	.000	.000
37	.728	.542	.486	.284	.192	.181	.145	.117	.111	.105	.077	.060	.058	.054	.050	.046	.042	.000	.000	.000
38	.736	.550	.496	.292	.198	.185	.149	.121	.115	.109	.079	.063	.060	.056	.052	.048	.044	.000	.000	.000
39	.744	.558	.506	.300	.204	.190	.155	.125	.119	.113	.081	.065	.063	.058	.054	.050	.046	.000	.000	.000
40	.752	.567	.514	.308	.210	.194	.161	.131	.123	.117	.083	.067	.065	.060	.056	.052	.048	.000	.000	.000

TOTAL OBSERVATIONS 496

TABLE 3. 3.a. P(W < W\*) I CONSECUTIVE LAUNCH OPPORTUNITIES IN J PERIODS (W\* = 35 M/SEC).  
BASED ON MAXIMUM WIND SPEEDS IN THE 10-15 KM LAYER OVER CAPE KENNEDY, FLORIDA.  
PERIOD OF RECORD JANUARY 1956 - DECEMBER 1963.

CAPE KENNEDY , FLORIDA MARCH  
SPEEDS LESS THAN 035 MPS

P ( I SUCCESSES IN J PERIODS )

J	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
1	.117																			
2	.155	.083																		
3	.190	.113	.058																	
4	.222	.137	.085	.042																
5	.254	.161	.103	.060	.034															
6	.284	.192	.121	.073	.048	.028														
7	.315	.214	.149	.085	.060	.038	.022													
8	.341	.238	.167	.109	.073	.048	.028	.018												
9	.367	.256	.190	.123	.095	.058	.034	.022	.016											
10	.389	.276	.206	.139	.109	.079	.040	.026	.020	.014										
11	.409	.294	.222	.151	.125	.089	.058	.030	.024	.018	.012									
12	.429	.308	.240	.163	.137	.101	.065	.048	.028	.022	.016	.010								
13	.450	.323	.252	.179	.149	.109	.075	.052	.046	.026	.020	.012	.010							
14	.466	.341	.264	.192	.163	.117	.083	.058	.050	.044	.024	.014	.012	.008						
15	.480	.357	.280	.202	.175	.127	.091	.065	.054	.048	.042	.016	.014	.010	.006					
16	.494	.369	.294	.216	.185	.135	.101	.071	.058	.052	.046	.032	.016	.012	.008	.004				
17	.508	.383	.304	.228	.200	.141	.109	.081	.063	.054	.050	.034	.032	.014	.010	.006	.002			
18	.520	.397	.319	.240	.210	.151	.117	.087	.071	.056	.052	.036	.034	.032	.012	.008	.004	.000		
19	.532	.407	.335	.256	.220	.157	.129	.093	.077	.060	.054	.038	.036	.034	.032	.010	.006	.000	.000	
20	.544	.417	.347	.272	.236	.163	.139	.101	.083	.065	.056	.040	.038	.036	.034	.032	.008	.000	.000	.000
21	.556	.427	.357	.286	.252	.175	.149	.107	.091	.069	.058	.042	.040	.038	.036	.034	.032	.000	.000	.000
22	.569	.438	.367	.296	.268	.185	.165	.115	.097	.075	.060	.044	.042	.040	.038	.036	.034	.024	.000	.000
23	.581	.448	.377	.306	.278	.198	.177	.133	.101	.081	.065	.046	.044	.042	.040	.038	.036	.028	.022	.000
24	.593	.458	.385	.317	.288	.206	.190	.145	.117	.083	.071	.050	.046	.044	.042	.040	.038	.032	.026	.020
25	.605	.470	.393	.325	.300	.214	.200	.155	.125	.099	.073	.056	.050	.046	.044	.042	.040	.036	.030	.024
26	.617	.480	.403	.333	.308	.226	.208	.167	.129	.107	.089	.058	.056	.050	.046	.044	.042	.040	.034	.028
27	.629	.490	.411	.343	.317	.234	.220	.175	.137	.111	.099	.071	.058	.056	.050	.046	.044	.042	.040	.032
28	.641	.500	.419	.351	.327	.242	.228	.188	.143	.117	.105	.079	.069	.058	.056	.050	.046	.044	.042	.040
29	.651	.512	.427	.359	.335	.252	.236	.196	.149	.125	.111	.085	.075	.067	.058	.056	.050	.046	.044	.042
30	.661	.522	.438	.367	.343	.262	.244	.204	.155	.131	.119	.091	.081	.071	.065	.058	.056	.050	.046	.044
31	.669	.534	.448	.375	.351	.272	.252	.212	.161	.137	.125	.099	.087	.075	.069	.063	.058	.056	.050	.046
32	.679	.544	.460	.383	.359	.282	.260	.220	.167	.143	.131	.103	.097	.079	.073	.067	.060	.058	.056	.050
33	.690	.556	.470	.393	.367	.292	.268	.228	.175	.149	.137	.107	.101	.089	.077	.071	.063	.060	.058	.056
34	.700	.569	.482	.403	.375	.302	.276	.236	.181	.159	.143	.111	.105	.091	.089	.075	.065	.063	.060	.058
35	.710	.581	.494	.415	.383	.313	.284	.244	.188	.167	.153	.113	.109	.093	.091	.089	.067	.065	.063	.060
36	.720	.591	.508	.427	.393	.323	.292	.252	.192	.175	.161	.119	.111	.095	.093	.091	.081	.067	.065	.063
37	.728	.601	.518	.444	.403	.333	.300	.260	.196	.181	.169	.123	.117	.097	.095	.093	.083	.081	.067	.065
38	.736	.611	.528	.454	.419	.343	.308	.268	.200	.185	.179	.127	.121	.103	.097	.095	.085	.083	.081	.067
39	.744	.621	.538	.464	.431	.359	.317	.276	.204	.190	.183	.135	.125	.107	.103	.097	.087	.085	.083	.081
40	.752	.633	.548	.474	.442	.373	.331	.284	.208	.194	.188	.139	.133	.111	.107	.103	.099	.087	.085	.083

TOTAL OBSERVATIONS 496

TABLE 3. 3. b. P(W < W\*) I LAUNCH OPPORTUNITIES IN J PERIODS (W\* = 35 M/SEC).  
BASED ON MAXIMUM WIND SPEEDS IN THE 10-15 KM LAYER OVER CAPE KENNEDY, FLORIDA.  
PERIOD OF RECORD JANUARY 1956 - DECEMBER 1963.

CAPE KENNEDY, FLORIDA MARCH  
SPEEDS LESS THAN 040 MPS

PC ( I CONSECUTIVE SUCCESSES IN J PERIODS )

J	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
1	.202																			
2	.266	.141																		
3	.313	.177	.105																	
4	.351	.212	.131	.079																
5	.385	.246	.157	.099	.060															
6	.417	.274	.185	.119	.073	.050														
7	.450	.302	.214	.139	.085	.063	.040													
8	.482	.331	.238	.161	.097	.075	.050	.032												
9	.510	.339	.260	.181	.109	.087	.060	.040	.026											
10	.536	.385	.282	.196	.121	.099	.071	.048	.034	.020										
11	.563	.405	.302	.210	.129	.111	.081	.056	.042	.028	.014									
12	.587	.425	.323	.222	.135	.121	.091	.065	.050	.036	.018	.012								
13	.611	.446	.339	.234	.141	.129	.099	.073	.058	.044	.022	.016	.010							
14	.631	.466	.355	.246	.147	.135	.107	.079	.067	.052	.026	.020	.012	.008						
15	.651	.484	.373	.256	.153	.141	.113	.085	.073	.060	.030	.024	.014	.010	.006					
16	.671	.502	.387	.268	.159	.147	.119	.091	.079	.067	.034	.028	.016	.012	.008	.004				
17	.690	.520	.401	.278	.165	.153	.125	.095	.085	.073	.036	.032	.018	.014	.010	.006	.002			
18	.708	.538	.415	.286	.171	.161	.131	.099	.091	.079	.038	.034	.020	.016	.012	.006	.004	.000		
19	.726	.554	.429	.294	.177	.167	.139	.103	.095	.085	.040	.036	.022	.018	.014	.010	.006	.000	.000	
20	.742	.567	.444	.302	.183	.173	.147	.109	.099	.091	.042	.038	.024	.020	.016	.012	.008	.000	.000	.000
21	.754	.579	.458	.310	.190	.179	.155	.115	.105	.095	.044	.040	.026	.022	.018	.014	.010	.000	.000	.000
22	.766	.591	.472	.319	.196	.185	.163	.121	.111	.101	.046	.042	.028	.024	.020	.016	.012	.000	.000	.000
23	.778	.601	.486	.327	.202	.192	.171	.127	.117	.107	.050	.044	.030	.026	.022	.018	.014	.000	.000	.000
24	.790	.613	.498	.335	.208	.198	.179	.133	.123	.113	.054	.048	.032	.028	.024	.020	.016	.000	.000	.000
25	.800	.625	.512	.343	.214	.204	.188	.139	.129	.119	.058	.052	.036	.030	.026	.022	.018	.000	.000	.000
26	.810	.635	.526	.353	.220	.210	.196	.145	.135	.125	.063	.056	.040	.034	.028	.024	.020	.000	.000	.000
27	.821	.645	.540	.363	.226	.216	.204	.151	.141	.131	.067	.060	.044	.038	.030	.026	.022	.000	.000	.000
28	.829	.655	.552	.373	.232	.222	.212	.157	.147	.137	.071	.065	.048	.042	.032	.028	.024	.000	.000	.000
29	.837	.665	.565	.383	.238	.228	.218	.163	.153	.143	.075	.069	.052	.046	.034	.030	.026	.000	.000	.000
30	.845	.675	.577	.391	.244	.234	.224	.167	.159	.149	.079	.073	.056	.050	.036	.032	.028	.000	.000	.000
31	.853	.685	.589	.399	.250	.240	.230	.169	.163	.155	.083	.077	.060	.054	.038	.034	.030	.000	.000	.000
32	.861	.696	.601	.407	.256	.246	.236	.171	.167	.159	.087	.081	.065	.058	.040	.036	.032	.000	.000	.000
33	.869	.706	.615	.415	.262	.252	.242	.173	.169	.163	.091	.085	.069	.063	.042	.038	.034	.000	.000	.000
34	.877	.716	.627	.425	.268	.258	.248	.175	.171	.167	.095	.089	.073	.067	.044	.040	.036	.000	.000	.000
35	.885	.726	.639	.435	.276	.264	.254	.177	.173	.169	.099	.093	.077	.071	.046	.042	.038	.000	.000	.000
36	.893	.736	.651	.444	.284	.272	.260	.179	.175	.171	.103	.097	.081	.075	.048	.044	.040	.000	.000	.000
37	.901	.746	.663	.452	.292	.280	.268	.181	.177	.173	.107	.101	.085	.079	.050	.046	.042	.000	.000	.000
38	.909	.756	.675	.460	.300	.288	.276	.183	.179	.175	.111	.105	.089	.083	.052	.048	.044	.000	.000	.000
39	.917	.766	.688	.468	.308	.296	.284	.185	.181	.177	.115	.109	.093	.087	.054	.050	.046	.000	.000	.000
40	.925	.778	.700	.476	.317	.304	.292	.190	.183	.179	.119	.113	.097	.091	.056	.052	.048	.000	.000	.000

TOTAL OBSERVATIONS 496

TABLE 3. 4.a. P(W < W\*) I CONSECUTIVE LAUNCH OPPORTUNITIES IN J PERIODS (W\* = 40 M/SEC).  
BASED ON MAXIMUM WIND SPEEDS IN THE 10-15 KM LAYER OVER CAPE KENNEDY, FLORIDA.  
PERIOD OF RECORD JANUARY 1956 - DECEMBER 1963.

CAPE KENNEDY, FLORIDA MARCH  
SPEEDS LESS THAN 040 MP.

P ( I SUCCESSES IN J PERIODS )

	I																			
J	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
1	.202																			
2	.266	.141																		
3	.313	.192	.105																	
4	.351	.240	.141	.079																
5	.385	.276	.188	.109	.060															
6	.417	.310	.220	.149	.085	.050														
7	.450	.343	.250	.169	.121	.075	.040													
8	.482	.375	.278	.188	.135	.111	.065	.032												
9	.510	.409	.308	.206	.145	.123	.099	.056	.026											
10	.536	.435	.343	.228	.157	.131	.111	.087	.052	.020										
11	.563	.462	.365	.260	.171	.139	.119	.097	.051	.042	.014									
12	.587	.488	.387	.278	.202	.147	.127	.105	.089	.075	.041	.012								
13	.611	.516	.407	.296	.220	.171	.135	.113	.095	.083	.065	.036	.010							
14	.631	.542	.431	.310	.242	.179	.161	.121	.101	.089	.075	.054	.032	.008						
15	.651	.560	.458	.327	.258	.198	.169	.147	.107	.095	.081	.063	.046	.030	.006					
16	.671	.579	.476	.349	.274	.208	.188	.157	.129	.101	.087	.067	.054	.040	.028	.004				
17	.690	.599	.492	.365	.294	.220	.198	.177	.137	.121	.093	.071	.058	.050	.034	.026	.002			
18	.708	.615	.510	.379	.317	.234	.208	.185	.159	.129	.111	.075	.063	.054	.044	.030	.024	.000		
19	.726	.629	.524	.395	.339	.250	.220	.194	.165	.155	.119	.089	.067	.058	.048	.042	.026	.020	.000	
20	.742	.645	.536	.407	.361	.270	.232	.204	.171	.161	.147	.097	.079	.063	.052	.046	.038	.022	.018	.000
21	.754	.663	.550	.417	.379	.288	.250	.212	.179	.167	.153	.125	.089	.073	.056	.050	.042	.034	.020	.016
22	.766	.675	.569	.427	.393	.306	.266	.226	.185	.175	.161	.131	.115	.085	.065	.054	.046	.038	.032	.018
23	.778	.688	.585	.442	.405	.323	.282	.238	.198	.181	.171	.139	.121	.109	.079	.060	.050	.040	.038	.030
24	.790	.698	.603	.456	.419	.337	.294	.252	.210	.192	.177	.151	.129	.115	.101	.077	.054	.042	.040	.038
25	.800	.710	.617	.474	.433	.351	.306	.264	.222	.204	.185	.159	.139	.125	.105	.099	.071	.044	.042	.040
26	.810	.720	.621	.488	.456	.363	.319	.274	.234	.216	.198	.165	.149	.133	.115	.101	.095	.058	.044	.042
27	.821	.730	.645	.502	.470	.381	.331	.284	.244	.222	.210	.175	.157	.141	.119	.111	.101	.079	.058	.044
28	.829	.742	.659	.514	.482	.393	.345	.296	.254	.238	.222	.185	.167	.149	.125	.113	.111	.087	.077	.058
29	.837	.750	.677	.524	.496	.405	.355	.308	.266	.248	.232	.196	.177	.159	.131	.117	.113	.097	.087	.075
30	.845	.758	.688	.542	.508	.417	.365	.319	.278	.258	.242	.206	.185	.169	.139	.121	.115	.101	.095	.087
31	.853	.766	.698	.558	.522	.429	.375	.329	.290	.268	.250	.216	.194	.179	.145	.125	.117	.105	.099	.093
32	.861	.774	.708	.575	.532	.446	.385	.339	.302	.278	.258	.224	.204	.185	.153	.129	.119	.109	.103	.097
33	.869	.782	.718	.591	.542	.454	.405	.349	.315	.288	.266	.232	.212	.196	.157	.137	.121	.113	.107	.101
34	.877	.790	.728	.605	.554	.462	.421	.365	.327	.298	.274	.240	.220	.202	.167	.143	.125	.117	.111	.105
35	.885	.798	.736	.619	.569	.470	.433	.381	.343	.308	.282	.248	.228	.208	.175	.149	.129	.121	.115	.109
36	.893	.806	.744	.631	.585	.478	.444	.399	.359	.321	.290	.256	.236	.214	.181	.155	.133	.125	.119	.113
37	.901	.815	.752	.643	.595	.492	.454	.411	.379	.335	.298	.262	.246	.220	.188	.159	.137	.129	.125	.117
38	.909	.823	.760	.655	.605	.504	.464	.423	.391	.357	.306	.268	.254	.228	.194	.163	.139	.133	.129	.125
39	.917	.833	.768	.667	.615	.518	.476	.435	.403	.367	.329	.274	.260	.236	.202	.167	.141	.135	.133	.129
40	.925	.843	.778	.679	.625	.528	.490	.448	.415	.377	.337	.296	.266	.242	.212	.171	.143	.137	.135	.133

TOTAL OBSERVATIONS 496

TABLE 3. d.b. P(W < W\*) I LAUNCH OPPORTUNITIES IN J PERIODS (W\* = 40 M/SEC).  
BASED ON MAXIMUM WIND SPEEDS IN THE 10-15 KM LAYER OVER CAPE KENNEDY, FLORIDA.  
PERIOD OF RECORD JANUARY 1956 - DECEMBER 1963.

CAPE KENNEDY , FLORIDA MARCH  
SPEFDS LESS THAN 045 MPS

PC ( I CONSECUTIVE SUCCESSES IN J PERIODS )

J	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
1	.292																			
2	.373	.212																		
3	.427	.260	.159																	
4	.476	.308	.174	.121																
5	.518	.347	.228	.147	.095															
6	.556	.381	.264	.173	.117	.085														
7	.595	.411	.292	.202	.135	.099	.075													
8	.633	.442	.319	.230	.153	.113	.089	.065												
9	.671	.470	.343	.252	.171	.127	.103	.079	.054											
10	.708	.500	.367	.272	.190	.141	.117	.093	.065	.046										
11	.736	.528	.391	.290	.202	.155	.131	.107	.075	.056	.038									
12	.760	.552	.415	.310	.212	.167	.145	.121	.085	.067	.046	.032								
13	.784	.575	.440	.329	.224	.177	.157	.135	.095	.077	.054	.038	.028							
14	.804	.595	.460	.349	.236	.188	.169	.147	.105	.087	.063	.044	.032	.026						
15	.823	.613	.480	.367	.248	.198	.179	.159	.113	.097	.071	.050	.036	.030	.022					
16	.841	.629	.496	.381	.260	.210	.190	.171	.121	.105	.079	.056	.040	.034	.026	.018				
17	.859	.643	.512	.393	.272	.220	.202	.181	.129	.113	.085	.063	.044	.038	.030	.022	.014			
18	.873	.657	.528	.405	.282	.230	.214	.194	.137	.121	.091	.067	.048	.042	.034	.026	.018	.010		
19	.887	.671	.544	.417	.292	.240	.224	.206	.145	.129	.097	.071	.052	.046	.038	.030	.022	.014	.006	
20	.899	.683	.560	.429	.302	.250	.234	.218	.153	.139	.103	.075	.056	.050	.042	.034	.026	.018	.008	.004
21	.909	.696	.577	.442	.313	.260	.244	.228	.161	.147	.111	.079	.060	.054	.046	.038	.030	.022	.010	.006
22	.917	.708	.591	.454	.321	.270	.254	.238	.169	.155	.119	.085	.065	.058	.050	.042	.034	.026	.012	.008
23	.923	.716	.605	.466	.329	.280	.264	.248	.175	.163	.125	.091	.071	.063	.054	.046	.038	.030	.014	.010
24	.929	.724	.619	.476	.337	.290	.274	.258	.181	.171	.131	.097	.077	.069	.058	.050	.042	.034	.016	.012
25	.935	.732	.633	.490	.345	.300	.284	.268	.188	.177	.137	.103	.083	.075	.065	.054	.046	.038	.018	.014
26	.942	.740	.645	.504	.353	.308	.294	.278	.194	.183	.143	.109	.089	.081	.071	.060	.050	.042	.020	.016
27	.948	.748	.657	.518	.361	.317	.302	.288	.200	.190	.147	.115	.095	.087	.077	.067	.054	.046	.022	.018
28	.952	.756	.669	.530	.369	.325	.310	.296	.206	.196	.151	.121	.101	.093	.083	.073	.058	.050	.024	.020
29	.956	.764	.681	.542	.377	.333	.319	.304	.210	.202	.155	.127	.107	.099	.089	.079	.063	.054	.026	.022
30	.960	.772	.694	.554	.385	.341	.327	.313	.214	.206	.159	.133	.113	.105	.095	.085	.067	.058	.028	.024
31	.964	.780	.706	.567	.393	.349	.335	.321	.218	.210	.161	.139	.119	.111	.101	.091	.071	.063	.030	.026
32	.968	.788	.718	.579	.401	.357	.343	.329	.222	.214	.163	.143	.125	.117	.107	.097	.075	.067	.032	.028
33	.972	.796	.726	.591	.409	.365	.351	.337	.226	.218	.165	.147	.129	.123	.113	.103	.079	.071	.034	.030
34	.976	.804	.734	.603	.417	.373	.359	.345	.230	.222	.167	.151	.133	.127	.119	.109	.083	.075	.036	.032
35	.978	.813	.742	.613	.427	.381	.367	.353	.234	.226	.169	.155	.137	.131	.123	.115	.087	.079	.038	.034
36	.980	.821	.750	.623	.438	.391	.375	.361	.238	.230	.171	.159	.141	.135	.127	.119	.091	.083	.040	.036
37	.982	.829	.758	.633	.448	.401	.385	.369	.242	.234	.173	.163	.145	.139	.131	.123	.093	.087	.042	.038
38	.984	.837	.766	.641	.458	.411	.395	.379	.246	.238	.175	.167	.149	.143	.135	.127	.095	.089	.044	.040
39	.986	.845	.774	.649	.468	.421	.405	.389	.252	.247	.177	.171	.153	.147	.139	.131	.097	.091	.044	.042
40	.988	.855	.782	.655	.478	.431	.415	.399	.258	.248	.179	.175	.157	.151	.143	.135	.099	.093	.044	.042

TOTAL OBSERVATIONS 496

TABLE 3. 5.a. P(W < W\*) I CONSECUTIVE LAUNCH OPPORTUNITIES IN J PERIODS (W\* = 45 M/SEC).

BASED ON MAXIMUM WIND SPEEDS IN THE 10-15 KM LAYER OVER CAPE KENNEDY, FLORIDA.

PERIOD OF RECORD JANUARY 1956 - DECEMBER 1963.

CAPE KENNEDY, FLORIDA MARCH  
SPEEDS LESS THAN 045 MPS

P ( I SUCCESSES IN J PERIODS )

	I																			
J	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
1	.292																			
2	.373	.212																		
3	.427	.284	.159																	
4	.476	.331	.230	.121																
5	.518	.373	.272	.188	.099															
6	.556	.405	.317	.224	.157	.085														
7	.595	.438	.347	.264	.190	.137	.075													
8	.633	.466	.381	.292	.220	.165	.125	.065												
9	.671	.494	.407	.325	.246	.185	.153	.115	.054											
10	.708	.522	.435	.347	.278	.208	.169	.141	.103	.046										
11	.736	.554	.466	.371	.298	.240	.190	.155	.127	.093	.038									
12	.760	.579	.500	.397	.321	.262	.222	.173	.139	.113	.083	.032								
13	.784	.601	.528	.425	.345	.284	.246	.206	.155	.121	.103	.073	.028							
14	.804	.623	.550	.454	.369	.306	.270	.228	.190	.131	.111	.093	.063	.026						
15	.823	.641	.577	.472	.399	.325	.294	.250	.212	.163	.119	.101	.081	.054	.022					
16	.841	.657	.575	.498	.419	.349	.313	.274	.234	.181	.151	.109	.089	.071	.052	.018				
17	.859	.673	.613	.514	.448	.367	.333	.294	.260	.196	.169	.141	.097	.079	.060	.050	.014			
18	.873	.694	.629	.530	.470	.389	.355	.306	.282	.222	.181	.161	.127	.087	.065	.053	.048	.010		
19	.887	.712	.647	.544	.490	.409	.377	.327	.292	.244	.208	.171	.147	.117	.069	.060	.054	.046	.006	
20	.899	.730	.665	.558	.506	.431	.397	.347	.308	.254	.232	.200	.153	.139	.095	.065	.058	.052	.042	.004
21	.909	.746	.685	.575	.520	.450	.417	.367	.329	.264	.244	.224	.179	.145	.115	.091	.063	.056	.050	.038
22	.917	.756	.706	.593	.536	.466	.433	.385	.349	.282	.254	.234	.204	.169	.117	.113	.089	.060	.054	.048
23	.923	.768	.714	.617	.554	.486	.448	.399	.369	.299	.270	.248	.210	.198	.133	.115	.113	.087	.058	.052
24	.929	.776	.726	.631	.579	.508	.468	.411	.393	.319	.284	.262	.224	.204	.161	.127	.115	.113	.085	.056
25	.935	.784	.734	.647	.593	.536	.488	.431	.395	.329	.306	.276	.236	.218	.167	.155	.123	.115	.113	.083
26	.942	.792	.742	.657	.611	.554	.516	.450	.413	.337	.319	.298	.248	.230	.181	.161	.151	.119	.115	.113
27	.948	.800	.750	.667	.623	.577	.534	.476	.431	.349	.327	.313	.268	.242	.196	.173	.157	.143	.117	.113
28	.952	.810	.758	.677	.631	.597	.554	.496	.456	.359	.339	.321	.282	.262	.208	.190	.167	.151	.133	.117
29	.956	.819	.768	.688	.639	.607	.577	.518	.476	.377	.349	.333	.290	.274	.232	.200	.183	.161	.137	.131
30	.960	.827	.776	.700	.647	.617	.589	.544	.494	.395	.363	.343	.302	.282	.248	.222	.192	.177	.141	.135
31	.964	.835	.784	.712	.655	.627	.599	.560	.520	.409	.379	.355	.313	.294	.262	.236	.208	.185	.153	.137
32	.968	.843	.794	.724	.663	.637	.609	.575	.536	.433	.393	.369	.323	.304	.278	.250	.222	.196	.159	.147
33	.972	.851	.804	.736	.671	.647	.619	.587	.550	.450	.415	.383	.337	.313	.292	.264	.238	.208	.163	.155
34	.976	.859	.815	.748	.677	.659	.629	.599	.563	.464	.433	.403	.351	.325	.304	.276	.252	.224	.169	.161
35	.978	.867	.823	.762	.683	.667	.641	.613	.575	.478	.446	.423	.371	.337	.317	.288	.264	.238	.179	.165
36	.980	.873	.833	.774	.692	.673	.649	.629	.591	.490	.458	.435	.395	.353	.329	.298	.278	.252	.188	.171
37	.982	.879	.841	.788	.700	.679	.655	.639	.609	.508	.470	.448	.409	.377	.343	.306	.292	.268	.198	.175
38	.984	.885	.849	.800	.710	.685	.661	.647	.623	.528	.484	.460	.423	.391	.365	.317	.302	.284	.216	.179
39	.986	.891	.857	.815	.718	.694	.667	.655	.633	.548	.502	.474	.438	.405	.381	.333	.313	.296	.236	.190
40	.988	.897	.865	.827	.730	.700	.675	.663	.643	.565	.520	.490	.452	.419	.395	.345	.329	.306	.254	.204

TOTAL OBSERVATIONS 496

TABLE 3. 5.b. P(W < W\*) I LAUNCH OPPORTUNITIES IN J PERIODS (W\* = 45 M/SEC).  
BASED ON MAXIMUM WIND SPEEDS IN THE 10-15 KM LAYER OVER CAPE KENNEDY, FLORIDA.

PERIOD OF RECORD JANUARY 1956 - DECEMBER 1963.



CAPE KENNEDY, FLORIDA MARCH  
SPEEDS LESS THAN 050 MPS

PC ( I CONSECUTIVE SUCCESSES IN J PERIODS )

I

J	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
1	.425																			
2	.506	.345																		
3	.569	.395	.292																	
4	.623	.446	.327	.256																
5	.671	.492	.361	.286	.228															
6	.712	.534	.395	.317	.248	.208														
7	.750	.575	.427	.347	.268	.224	.194													
8	.788	.611	.456	.377	.288	.240	.208	.181												
9	.819	.647	.494	.403	.308	.256	.222	.196	.169											
10	.843	.685	.508	.427	.329	.272	.236	.210	.181	.157										
11	.865	.718	.534	.456	.347	.288	.250	.224	.194	.166	.145									
12	.883	.750	.560	.480	.365	.304	.264	.238	.206	.181	.155	.135								
13	.897	.780	.589	.504	.383	.321	.278	.252	.218	.194	.165	.143	.127							
14	.909	.806	.617	.532	.397	.337	.292	.266	.230	.206	.175	.151	.133	.119						
15	.921	.825	.643	.558	.413	.353	.306	.280	.242	.218	.185	.159	.139	.125	.111					
16	.933	.841	.663	.585	.429	.367	.321	.294	.254	.230	.196	.167	.145	.131	.117	.103				
17	.946	.857	.683	.607	.446	.381	.337	.308	.266	.242	.206	.175	.151	.137	.123	.109	.095			
18	.954	.873	.704	.629	.460	.395	.349	.325	.278	.254	.216	.183	.157	.143	.129	.115	.101	.087		
19	.962	.897	.724	.651	.472	.407	.361	.341	.292	.266	.226	.192	.163	.149	.135	.121	.107	.091	.081	
20	.970	.899	.742	.673	.484	.419	.373	.353	.306	.280	.236	.200	.169	.155	.141	.127	.113	.095	.083	.079
21	.978	.911	.756	.696	.496	.431	.385	.365	.321	.294	.248	.208	.175	.161	.147	.133	.119	.099	.085	.081
22	.984	.921	.768	.718	.508	.444	.397	.377	.331	.308	.260	.218	.181	.167	.153	.139	.125	.103	.087	.083
23	.988	.929	.780	.736	.520	.456	.409	.389	.341	.323	.272	.228	.190	.173	.159	.141	.131	.107	.089	.085
24	.992	.938	.790	.752	.532	.468	.421	.401	.351	.333	.284	.238	.198	.181	.165	.151	.137	.111	.091	.087
25	.994	.944	.800	.768	.542	.480	.433	.413	.361	.343	.296	.248	.206	.190	.173	.157	.143	.115	.093	.089
26	.996	.954	.810	.780	.552	.492	.446	.425	.371	.353	.304	.258	.214	.198	.181	.165	.149	.119	.095	.091
27	.998	.960	.821	.792	.563	.502	.458	.438	.381	.364	.313	.268	.222	.206	.190	.173	.157	.123	.097	.093
28	1.00	.966	.831	.804	.573	.512	.470	.450	.391	.375	.323	.274	.230	.214	.198	.181	.165	.127	.099	.095
29	1.00	.972	.839	.817	.583	.522	.480	.462	.401	.385	.333	.282	.238	.222	.206	.190	.173	.131	.101	.097
30	1.00	.978	.847	.829	.593	.532	.490	.474	.411	.393	.343	.290	.246	.230	.214	.198	.181	.135	.103	.099
31	1.00	.984	.855	.837	.603	.542	.500	.484	.421	.401	.351	.298	.254	.238	.222	.206	.190	.139	.105	.101
32	1.00	.990	.863	.845	.613	.552	.510	.494	.431	.409	.359	.304	.262	.244	.230	.214	.198	.143	.107	.103
33	1.00	.994	.871	.853	.621	.563	.520	.504	.440	.417	.367	.310	.268	.250	.238	.222	.206	.147	.109	.105
34	1.00	.998	.879	.861	.629	.573	.530	.514	.448	.425	.375	.317	.274	.254	.244	.230	.214	.151	.111	.107
35	1.00	1.00	.887	.869	.639	.581	.540	.524	.456	.433	.383	.323	.280	.258	.248	.238	.222	.155	.113	.109
36	1.00	1.00	.895	.877	.649	.591	.550	.534	.464	.442	.391	.329	.286	.262	.252	.242	.230	.159	.115	.111
37	1.00	1.00	.901	.885	.659	.601	.563	.544	.472	.450	.399	.335	.292	.266	.256	.246	.236	.163	.117	.113
38	1.00	1.00	.907	.893	.669	.611	.575	.556	.480	.458	.407	.341	.298	.270	.260	.250	.240	.165	.119	.115
39	1.00	1.00	.913	.899	.679	.621	.587	.569	.490	.468	.415	.347	.304	.274	.264	.254	.244	.167	.121	.117
40	1.00	1.00	.919	.905	.690	.631	.599	.581	.500	.476	.423	.353	.310	.278	.268	.258	.248	.167	.123	.119

TOTAL OBSERVATIONS 496

TABLE 3. 6.a. P(W < W\*) I CONSECUTIVE LAUNCH OPPORTUNITIES IN J PERIODS (W\* = 50 M/SEC).  
BASED ON MAXIMUM WIND SPEEDS IN THE 10-15 KM LAYER OVER CAPE KENNEDY, FLORIDA.  
PERIOD OF RECORD JANUARY 1956 - DECEMBER 1963.

CAPF KENNEDY , FLORIDA MARCH

SPEFDS LESS THAN 050 MPS

P ( I SUCCESSES IN J PERIODS )

	I																			
J	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
1	.425																			
2	.506	.345																		
3	.569	.413	.292																	
4	.623	.474	.341	.256																
5	.671	.528	.389	.300	.228															
6	.712	.579	.429	.347	.262	.208														
7	.750	.621	.470	.387	.298	.240	.194													
8	.788	.659	.500	.431	.335	.266	.226	.181												
9	.819	.704	.528	.462	.381	.296	.246	.214	.169											
10	.843	.740	.565	.492	.409	.345	.270	.230	.200	.157										
11	.865	.772	.601	.528	.440	.367	.319	.252	.216	.185	.145									
12	.883	.802	.635	.563	.476	.391	.337	.302	.236	.200	.171	.135								
13	.897	.827	.669	.601	.508	.425	.357	.319	.286	.220	.185	.157	.127							
14	.909	.849	.696	.639	.548	.454	.383	.339	.300	.272	.204	.171	.143	.119						
15	.921	.859	.722	.663	.587	.496	.405	.367	.315	.284	.260	.188	.155	.131	.111					
16	.933	.873	.746	.688	.611	.536	.440	.389	.341	.294	.274	.246	.169	.143	.119	.103				
17	.946	.887	.770	.712	.633	.565	.476	.419	.367	.313	.284	.260	.228	.157	.129	.109	.095			
18	.954	.905	.790	.738	.653	.593	.502	.454	.395	.341	.298	.270	.242	.218	.143	.115	.101	.087		
19	.962	.917	.817	.756	.677	.617	.530	.478	.429	.365	.329	.280	.254	.230	.206	.125	.107	.091	.081	
20	.970	.927	.839	.780	.692	.643	.552	.506	.458	.395	.357	.306	.262	.242	.218	.188	.115	.095	.083	.079
21	.978	.938	.855	.802	.710	.661	.577	.528	.488	.421	.387	.335	.288	.250	.232	.196	.177	.101	.085	.081
22	.984	.948	.871	.817	.728	.681	.595	.552	.508	.458	.407	.363	.319	.276	.240	.208	.183	.163	.089	.083
23	.988	.960	.883	.833	.736	.704	.615	.571	.534	.480	.442	.381	.345	.306	.268	.218	.192	.157	.149	.085
24	.992	.968	.899	.845	.748	.714	.637	.593	.554	.508	.462	.413	.363	.331	.298	.246	.202	.173	.151	.145
25	.994	.978	.913	.859	.756	.728	.649	.613	.577	.532	.490	.429	.395	.349	.319	.278	.234	.179	.153	.147
26	.996	.982	.933	.871	.764	.738	.665	.623	.597	.563	.510	.458	.409	.381	.333	.300	.268	.210	.155	.149
27	.998	.986	.944	.893	.772	.746	.681	.635	.607	.587	.542	.474	.438	.395	.361	.317	.290	.246	.179	.151
28	1.00	.990	.952	.903	.794	.754	.694	.651	.617	.599	.571	.504	.452	.423	.373	.345	.306	.272	.210	.171
29	1.00	.996	.958	.913	.808	.772	.706	.661	.633	.609	.583	.538	.480	.438	.399	.359	.333	.290	.234	.196
30	1.00	1.00	.966	.921	.823	.788	.722	.671	.643	.625	.593	.552	.516	.462	.411	.387	.347	.317	.256	.210
31	1.00	1.00	.976	.931	.833	.806	.738	.683	.653	.635	.609	.567	.532	.494	.433	.401	.375	.333	.282	.228
32	1.00	1.00	.980	.946	.845	.821	.760	.696	.663	.645	.621	.585	.546	.512	.460	.425	.389	.363	.296	.254
33	1.00	1.00	.984	.954	.863	.833	.780	.714	.673	.655	.631	.601	.563	.528	.476	.452	.415	.377	.327	.268
34	1.00	1.00	.986	.964	.873	.851	.792	.734	.688	.667	.641	.613	.583	.540	.492	.468	.442	.405	.341	.296
35	1.00	1.00	.988	.968	.887	.859	.813	.742	.708	.681	.655	.625	.597	.558	.504	.484	.458	.431	.371	.310
36	1.00	1.00	.990	.972	.895	.871	.825	.758	.714	.704	.669	.643	.611	.571	.522	.496	.474	.448	.399	.341
37	1.00	1.00	.992	.976	.903	.879	.837	.770	.728	.710	.694	.659	.631	.585	.534	.514	.486	.464	.417	.373
38	1.00	1.00	.994	.980	.911	.887	.847	.784	.734	.724	.702	.683	.649	.607	.548	.526	.504	.476	.435	.393
39	1.00	1.00	.996	.984	.917	.897	.857	.798	.742	.730	.718	.696	.669	.629	.573	.540	.516	.494	.450	.413
40	1.00	1.00	.998	.988	.923	.903	.871	.810	.754	.736	.726	.712	.685	.649	.599	.563	.530	.506	.470	.429

TOTAL OBSERVATIONS 496

TABLE 3. 6.b. P(W < W\*) I LAUNCH OPPORTUNITIES IN J PERIODS (W\* = 50 M/SEC).  
 BASED ON MAXIMUM WIND SPEEDS IN THE 10-15 KM LAYER OVER CAPE KENNEDY, FLORIDA.  
 PERIOD OF RECORD JANUARY 1956 - DECEMBER 1963.

CAPE KENNEDY, FLORIDA MARCH  
SPEEDS LESS THAN 055 MPS

PC ( I CONSECUTIVE SUCCESSES IN J PERIODS )

	I																			
J	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
1	.567																			
2	.669	.464																		
3	.740	.538	.387																	
4	.798	.611	.444	.329																
5	.839	.665	.498	.371	.286															
6	.871	.712	.552	.411	.317	.258														
7	.901	.750	.595	.452	.347	.284	.234													
8	.925	.788	.627	.492	.377	.310	.256	.214												
9	.942	.821	.661	.524	.407	.337	.278	.230	.202											
10	.952	.851	.694	.554	.438	.363	.300	.246	.218	.170										
11	.960	.873	.722	.583	.466	.389	.323	.262	.234	.206	.175									
12	.966	.893	.750	.609	.492	.417	.345	.278	.250	.222	.192	.161								
13	.972	.907	.776	.635	.514	.444	.369	.294	.266	.238	.208	.173	.151							
14	.978	.919	.798	.665	.536	.466	.393	.313	.282	.254	.224	.185	.161	.141						
15	.982	.931	.819	.692	.560	.486	.413	.331	.300	.270	.240	.198	.171	.151	.129					
16	.986	.940	.833	.716	.585	.508	.431	.347	.319	.288	.256	.210	.181	.161	.137	.119				
17	.990	.948	.847	.740	.607	.530	.450	.363	.335	.306	.274	.222	.192	.171	.145	.127	.109			
18	.992	.956	.859	.764	.629	.552	.468	.379	.351	.323	.292	.236	.202	.181	.153	.135	.117	.099		
19	.994	.964	.873	.788	.651	.573	.486	.393	.369	.339	.308	.250	.212	.192	.161	.143	.125	.107	.089	
20	.996	.970	.885	.810	.673	.593	.504	.407	.385	.357	.325	.262	.222	.202	.169	.151	.133	.115	.093	.085
21	.998	.974	.897	.829	.696	.613	.520	.421	.399	.375	.343	.274	.232	.212	.177	.159	.141	.123	.097	.089
22	1.00	.978	.905	.845	.716	.633	.536	.435	.413	.391	.361	.288	.242	.222	.185	.167	.149	.131	.101	.093
23	1.00	.982	.911	.861	.734	.653	.552	.450	.427	.405	.379	.302	.254	.232	.194	.175	.157	.139	.105	.097
24	1.00	.986	.917	.871	.748	.673	.569	.464	.442	.419	.395	.317	.266	.244	.202	.183	.165	.147	.109	.101
25	1.00	.988	.923	.881	.760	.692	.585	.478	.456	.433	.409	.331	.278	.256	.212	.192	.173	.155	.113	.105
26	1.00	.990	.929	.891	.770	.704	.601	.492	.470	.448	.423	.343	.290	.268	.222	.202	.181	.163	.117	.109
27	1.00	.992	.933	.899	.780	.716	.613	.506	.484	.462	.438	.353	.302	.280	.232	.212	.192	.171	.121	.113
28	1.00	.994	.938	.907	.790	.726	.625	.518	.498	.476	.454	.363	.313	.294	.242	.222	.202	.181	.125	.117
29	1.00	.996	.942	.913	.800	.736	.637	.530	.510	.490	.468	.375	.321	.306	.254	.232	.212	.192	.129	.121
30	1.00	.998	.946	.919	.808	.746	.647	.542	.522	.502	.482	.387	.331	.317	.266	.244	.222	.202	.133	.125
31	1.00	1.00	.950	.923	.817	.754	.657	.554	.534	.514	.494	.399	.341	.327	.276	.256	.234	.212	.137	.129
32	1.00	1.00	.954	.933	.825	.762	.667	.567	.546	.526	.506	.409	.351	.337	.286	.268	.246	.224	.141	.133
33	1.00	1.00	.958	.942	.835	.770	.677	.579	.558	.538	.518	.419	.359	.347	.296	.280	.258	.236	.145	.137
34	1.00	1.00	.962	.948	.843	.778	.688	.591	.571	.550	.530	.429	.367	.355	.306	.290	.272	.248	.149	.141
35	1.00	1.00	.966	.954	.851	.786	.698	.603	.583	.563	.542	.440	.377	.363	.315	.300	.284	.262	.153	.145
36	1.00	1.00	.970	.960	.857	.794	.708	.615	.595	.575	.554	.450	.387	.373	.323	.308	.294	.276	.159	.149
37	1.00	1.00	.974	.966	.863	.802	.718	.625	.607	.587	.567	.460	.397	.383	.333	.317	.302	.288	.165	.155
38	1.00	1.00	.978	.970	.869	.810	.728	.635	.619	.599	.579	.470	.407	.393	.343	.327	.310	.296	.171	.161
39	1.00	1.00	.982	.974	.875	.819	.738	.645	.629	.611	.591	.480	.417	.403	.353	.337	.321	.304	.177	.167
40	1.00	1.00	.986	.978	.879	.827	.748	.655	.639	.623	.603	.490	.427	.413	.363	.347	.331	.315	.181	.173

TOTAL OBSERVATIONS 496

TABLE 3. 7.a. P(W < W\*) I CONSECUTIVE LAUNCH OPPORTUNITIES IN J PERIODS (W\* = 85 M/SEC).  
BASED ON MAXIMUM WIND SPEEDS IN THE 10-15 KM LAYER OVER CAPE KENNEDY, FLORIDA.  
PERIOD OF RECORD JANUARY 1956 - DECEMBER 1963.

CAPE KENNEDY, FLORIDA MARCH  
SPEEDS LESS THAN 055 MPS

P ( I SUCCESSSES IN J PERIODS )

	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
1	.567																			
2	.669	.464																		
3	.740	.571	.387																	
4	.798	.643	.488	.329																
5	.839	.710	.556	.423	.286															
6	.871	.758	.619	.492	.371	.258														
7	.901	.796	.671	.548	.438	.339	.234													
8	.925	.835	.710	.601	.496	.401	.308	.214												
9	.942	.871	.744	.647	.546	.458	.360	.274	.202											
10	.952	.899	.780	.685	.597	.502	.427	.337	.256	.190										
11	.960	.917	.819	.726	.635	.554	.472	.389	.313	.238	.175									
12	.966	.929	.847	.774	.675	.593	.522	.431	.363	.290	.222	.161								
13	.972	.940	.869	.808	.724	.633	.558	.484	.399	.337	.274	.204	.151							
14	.978	.948	.889	.835	.760	.683	.601	.520	.444	.371	.321	.256	.188	.141						
15	.982	.958	.903	.857	.790	.727	.649	.563	.478	.413	.353	.300	.242	.173	.129					
16	.986	.968	.917	.871	.819	.752	.694	.611	.516	.448	.395	.329	.286	.228	.157	.119				
17	.990	.976	.933	.887	.837	.780	.722	.659	.569	.482	.429	.369	.313	.270	.212	.145	.109			
18	.992	.986	.948	.901	.855	.804	.748	.683	.625	.532	.464	.403	.351	.292	.254	.202	.133	.099		
19	.994	.990	.968	.913	.865	.833	.774	.706	.653	.591	.510	.438	.387	.323	.276	.244	.190	.123	.089	
20	.996	.992	.978	.938	.875	.843	.813	.728	.677	.619	.575	.478	.421	.357	.302	.266	.230	.181	.109	.085
21	.998	.994	.984	.952	.897	.853	.821	.770	.706	.645	.599	.538	.464	.395	.333	.290	.252	.220	.167	.103
22	1.00	.996	.988	.960	.913	.875	.829	.782	.752	.673	.627	.563	.520	.438	.369	.317	.276	.240	.204	.157
23	1.00	1.00	.992	.966	.923	.893	.847	.797	.766	.718	.661	.591	.544	.492	.411	.351	.300	.264	.222	.190
24	1.00	1.00	1.00	.972	.931	.903	.863	.810	.778	.730	.708	.633	.569	.516	.468	.387	.337	.286	.244	.206
25	1.00	1.00	1.00	.986	.940	.911	.873	.823	.800	.742	.720	.683	.611	.538	.494	.444	.371	.321	.264	.236
26	1.00	1.00	1.00	.990	.958	.919	.881	.829	.813	.766	.732	.706	.655	.579	.516	.472	.425	.355	.298	.248
27	1.00	1.00	1.00	.994	.968	.933	.891	.835	.817	.784	.752	.724	.679	.625	.552	.492	.456	.409	.331	.282
28	1.00	1.00	1.00	.998	.976	.942	.903	.847	.821	.790	.770	.746	.698	.659	.597	.526	.474	.440	.385	.315
29	1.00	1.00	1.00	1.00	.984	.948	.913	.861	.831	.796	.778	.762	.720	.683	.635	.571	.504	.454	.421	.367
30	1.00	1.00	1.00	1.00	.990	.956	.919	.877	.845	.804	.786	.766	.740	.706	.667	.609	.544	.480	.435	.407
31	1.00	1.00	1.00	1.00	.992	.964	.927	.887	.863	.814	.794	.770	.750	.726	.692	.647	.579	.516	.460	.425
32	1.00	1.00	1.00	1.00	.994	.968	.935	.899	.873	.837	.806	.776	.758	.740	.708	.679	.623	.544	.490	.452
33	1.00	1.00	1.00	1.00	.996	.972	.940	.913	.885	.843	.827	.782	.770	.750	.724	.694	.663	.585	.520	.476
34	1.00	1.00	1.00	1.00	.998	.976	.944	.921	.901	.849	.833	.798	.778	.766	.736	.708	.681	.631	.556	.504
35	1.00	1.00	1.00	1.00	1.00	.980	.947	.927	.911	.859	.839	.802	.794	.774	.759	.716	.700	.651	.607	.538
36	1.00	1.00	1.00	1.00	1.00	.986	.952	.938	.919	.867	.849	.806	.798	.790	.770	.736	.708	.671	.633	.591
37	1.00	1.00	1.00	1.00	1.00	.990	.958	.944	.929	.875	.855	.815	.802	.792	.788	.752	.728	.677	.659	.619
38	1.00	1.00	1.00	1.00	1.00	.994	.962	.952	.935	.887	.861	.823	.808	.794	.790	.774	.746	.698	.667	.649
39	1.00	1.00	1.00	1.00	1.00	.998	.968	.956	.946	.899	.871	.829	.819	.796	.792	.782	.766	.718	.690	.657
40	1.00	1.00	1.00	1.00	1.00	1.00	.976	.962	.950	.909	.879	.837	.825	.804	.794	.788	.776	.740	.708	.681

TOTAL OBSERVATIONS 496

TABLE 3. 7.b. P(W < W\*) I LAUNCH OPPORTUNITIES IN J PERIODS (W\* = 55 M/SEC).  
BASED ON MAXIMUM WIND SPEEDS IN THE 10-15 KM LAYER OVER CAPE KENNEDY, FLORIDA.  
PERIOD OF RECORD JANUARY 1956 - DECEMBER 1963.

CAPE KENNEDY, FLORIDA MARCH  
SPEEDS LESS THAN 060 MPS

PC ( 1 CONSECUTIVE SUCCESSES IN J PERIODS )

J	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
1	.681																			
2	.780	.581																		
3	.845	.657	.506																	
4	.873	.732	.563	.448																
5	.893	.792	.617	.498	.397															
6	.913	.835	.671	.546	.433	.361														
7	.931	.869	.722	.595	.470	.391	.333													
8	.944	.899	.764	.643	.506	.421	.361	.306												
9	.952	.923	.802	.688	.542	.452	.390	.329	.288											
10	.958	.940	.841	.730	.581	.482	.417	.351	.310	.270										
11	.964	.952	.871	.766	.619	.514	.446	.373	.333	.292	.250									
12	.970	.958	.897	.800	.655	.548	.476	.395	.355	.315	.272	.230								
13	.976	.964	.917	.831	.688	.583	.508	.419	.377	.337	.294	.250	.212							
14	.980	.970	.931	.857	.722	.613	.540	.446	.401	.359	.317	.270	.228	.198						
15	.984	.976	.946	.877	.750	.641	.571	.472	.427	.383	.339	.290	.244	.212	.183					
16	.988	.980	.956	.895	.776	.669	.599	.496	.454	.409	.363	.310	.260	.226	.196	.171				
17	.992	.984	.966	.913	.796	.696	.625	.520	.478	.435	.389	.333	.276	.240	.208	.183	.159			
18	.994	.988	.974	.927	.817	.722	.651	.542	.502	.460	.415	.357	.294	.254	.220	.196	.171	.147		
19	.996	.992	.980	.944	.835	.742	.675	.563	.526	.484	.440	.381	.315	.270	.232	.208	.183	.159	.135	
20	.998	.994	.986	.958	.853	.762	.700	.583	.548	.508	.464	.403	.335	.286	.246	.220	.196	.171	.143	.127
21	1.00	.996	.992	.968	.871	.782	.718	.601	.569	.532	.488	.425	.353	.302	.260	.234	.208	.183	.151	.135
22	1.00	.998	.994	.978	.885	.800	.736	.619	.589	.554	.512	.448	.371	.317	.274	.248	.222	.196	.159	.143
23	1.00	1.00	.996	.988	.907	.819	.754	.633	.607	.575	.536	.470	.389	.331	.286	.262	.236	.210	.167	.151
24	1.00	1.00	.998	.994	.909	.835	.772	.647	.625	.595	.560	.492	.407	.345	.298	.274	.250	.224	.177	.159
25	1.00	1.00	1.00	.996	.919	.851	.790	.661	.639	.613	.581	.516	.425	.359	.310	.286	.262	.238	.188	.169
26	1.00	1.00	1.00	.998	.927	.863	.806	.675	.653	.631	.601	.538	.446	.373	.323	.298	.274	.250	.198	.179
27	1.00	1.00	1.00	1.00	.935	.875	.819	.690	.667	.645	.619	.556	.466	.389	.335	.310	.286	.262	.206	.190
28	1.00	1.00	1.00	1.00	.944	.883	.831	.698	.681	.659	.637	.575	.484	.405	.349	.323	.298	.274	.214	.198
29	1.00	1.00	1.00	1.00	.952	.891	.843	.706	.690	.673	.651	.591	.498	.421	.363	.337	.310	.286	.222	.206
30	1.00	1.00	1.00	1.00	.958	.899	.853	.714	.698	.681	.665	.607	.512	.435	.377	.351	.325	.298	.230	.214
31	1.00	1.00	1.00	1.00	.964	.907	.863	.722	.706	.690	.673	.619	.524	.446	.391	.365	.339	.313	.238	.222
32	1.00	1.00	1.00	1.00	.970	.915	.873	.730	.714	.698	.681	.627	.536	.456	.403	.379	.353	.327	.248	.230
33	1.00	1.00	1.00	1.00	.972	.923	.883	.739	.722	.706	.690	.635	.544	.466	.413	.393	.367	.341	.258	.240
34	1.00	1.00	1.00	1.00	.974	.929	.893	.746	.730	.714	.698	.643	.552	.474	.423	.405	.381	.355	.268	.250
35	1.00	1.00	1.00	1.00	.976	.931	.901	.754	.738	.722	.706	.651	.560	.480	.431	.415	.395	.369	.278	.260
36	1.00	1.00	1.00	1.00	.978	.933	.909	.762	.746	.730	.714	.659	.569	.488	.440	.423	.407	.383	.288	.270
37	1.00	1.00	1.00	1.00	.980	.935	.913	.770	.754	.738	.722	.667	.577	.496	.448	.431	.415	.397	.298	.280
38	1.00	1.00	1.00	1.00	.982	.938	.917	.778	.762	.746	.730	.675	.585	.504	.456	.442	.423	.407	.308	.290
39	1.00	1.00	1.00	1.00	.984	.940	.921	.782	.770	.754	.738	.683	.593	.512	.464	.450	.433	.415	.310	.300
40	1.00	1.00	1.00	1.00	.986	.942	.925	.786	.778	.762	.746	.692	.601	.520	.472	.458	.444	.425	.327	.310

TOTAL OBSERVATIONS 496

TABLE 3. 8-a. P(W < W0) 1 CONSECUTIVE LAUNCH OPPORTUNITIES IN J PERIODS (W0 = 60 M/SEC).  
BASED ON MAXIMUM WIND SPEEDS IN THE 10-15 KM LAYER OVER CAPE KENNEDY, FLORIDA.  
PERIOD OF RECORD JANUARY 1956 - DECEMBER 1963.

CAPE KENNEDY, FLORIDA MARCH  
SPEEDS LESS THAN 060 MPS

P ( I SUCCESSES IN J PERIODS )

	I																			
J	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
1	.681																			
2	.780	.581																		
3	.845	.690	.506																	
4	.873	.788	.607	.448																
5	.893	.835	.718	.544	.397															
6	.913	.863	.782	.653	.482	.361														
7	.931	.889	.823	.724	.597	.440	.333													
8	.944	.915	.857	.772	.659	.542	.405	.306												
9	.952	.933	.893	.806	.718	.615	.504	.369	.288											
10	.958	.946	.919	.849	.754	.685	.573	.464	.345	.270										
11	.964	.952	.940	.881	.802	.722	.647	.536	.429	.323	.250									
12	.970	.958	.946	.913	.845	.768	.685	.615	.498	.405	.302	.230								
13	.976	.964	.952	.923	.885	.817	.732	.651	.577	.470	.389	.280	.212							
14	.980	.972	.958	.933	.901	.865	.784	.696	.611	.550	.450	.371	.256	.198						
15	.984	.976	.968	.942	.915	.881	.841	.746	.655	.591	.520	.435	.349	.234	.183					
16	.988	.980	.972	.956	.923	.903	.861	.802	.710	.635	.558	.502	.419	.329	.210	.171				
17	.992	.984	.976	.964	.938	.915	.891	.819	.772	.694	.603	.536	.486	.403	.302	.192	.159			
18	.994	.990	.980	.972	.948	.927	.907	.851	.792	.756	.661	.577	.518	.472	.377	.282	.177	.147		
19	.996	.992	.988	.976	.962	.938	.919	.867	.833	.776	.728	.637	.554	.502	.448	.357	.264	.165	.135	
20	.998	.994	.990	.986	.968	.956	.929	.877	.851	.825	.754	.704	.609	.538	.480	.427	.337	.250	.149	.127
21	1.00	.996	.992	.988	.980	.942	.952	.881	.867	.843	.804	.740	.669	.591	.514	.460	.409	.319	.236	.137
22	1.00	1.00	.994	.990	.984	.974	.958	.901	.875	.859	.827	.794	.712	.643	.567	.494	.442	.385	.304	.222
23	1.00	1.00	1.00	.992	.988	.978	.970	.905	.897	.869	.843	.819	.778	.677	.615	.546	.480	.417	.367	.296
24	1.00	1.00	1.00	1.00	.990	.984	.974	.915	.901	.893	.853	.835	.808	.750	.645	.591	.534	.458	.395	.347
25	1.00	1.00	1.00	1.00	1.00	.986	.982	.917	.911	.897	.877	.849	.827	.788	.714	.621	.575	.516	.433	.375
26	1.00	1.00	1.00	1.00	1.00	.998	.984	.925	.913	.907	.881	.873	.843	.815	.758	.681	.605	.550	.498	.409
27	1.00	1.00	1.00	1.00	1.00	1.00	.996	.929	.919	.909	.891	.877	.867	.833	.796	.730	.659	.579	.530	.476
28	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.944	.923	.913	.893	.887	.871	.859	.821	.778	.708	.631	.554	.506
29	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.952	.938	.917	.895	.884	.863	.865	.849	.808	.760	.683	.601	.528
30	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.956	.946	.931	.897	.891	.885	.881	.853	.843	.798	.734	.655	.569
31	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.960	.950	.940	.909	.893	.887	.883	.871	.849	.837	.778	.708	.621
32	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.964	.954	.944	.917	.903	.889	.885	.873	.869	.845	.827	.756	.679
33	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.968	.958	.948	.921	.911	.897	.887	.875	.871	.867	.839	.810	.734
34	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.972	.962	.952	.925	.915	.903	.893	.875	.875	.869	.863	.827	.752
35	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.974	.968	.956	.929	.919	.907	.897	.877	.875	.875	.865	.853	.813
36	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.976	.970	.964	.933	.923	.911	.901	.877	.875	.875	.873	.859	.837
37	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.978	.974	.966	.944	.927	.915	.905	.877	.875	.875	.873	.871	.847
38	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.980	.974	.972	.948	.938	.919	.909	.877	.875	.875	.875	.871	.867
39	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.982	.976	.977	.958	.942	.929	.913	.877	.875	.875	.875	.875	.869
40	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.984	.978	.974	.960	.954	.933	.923	.877	.875	.875	.875	.875	.875

TOTAL OBSERVATIONS 436

TABLE 3. P ( W < W# ) I LAUNCH OPPORTUNITIES IN J PERIODS ( W# = 60 M/SEC ).  
BASED ON MAXIMUM WIND SPEEDS IN THE 10-15 KM LAYER OVER CAPE KENNEDY, FLORIDA.  
PERIOD OF RECORD JANUARY 1956 - DECEMBER 1963.

CAPE KENNEDY, FLORIDA MARCH  
SPEEDS LESS THAN 065 MPS

PC ( I CONSECUTIVE SUCCESSES IN J PERIODS )

	I																			
J	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
1	.798																			
2	.865	.730																		
3	.907	.784	.673																	
4	.929	.839	.722	.623																
5	.942	.879	.770	.667	.575															
6	.954	.907	.819	.712	.619	.528														
7	.964	.927	.857	.756	.663	.565	.492													
8	.974	.946	.881	.800	.708	.601	.526	.460												
9	.982	.962	.901	.835	.752	.637	.560	.492	.429											
10	.986	.974	.921	.857	.796	.673	.595	.524	.458	.407										
11	.990	.982	.942	.875	.831	.710	.629	.556	.486	.435	.383									
12	.992	.986	.956	.895	.853	.746	.663	.589	.514	.464	.409	.361								
13	.994	.990	.964	.915	.873	.774	.698	.621	.542	.492	.435	.387	.339							
14	.996	.992	.968	.929	.893	.798	.730	.653	.571	.520	.462	.413	.365	.317						
15	.998	.994	.972	.940	.915	.819	.756	.683	.599	.548	.488	.440	.391	.341	.296					
16	1.00	.996	.976	.948	.929	.841	.776	.712	.627	.577	.516	.466	.417	.365	.321	.274				
17	1.00	.998	.980	.956	.940	.863	.796	.736	.653	.605	.544	.494	.444	.389	.345	.298	.252			
18	1.00	1.00	.984	.964	.948	.879	.817	.756	.679	.631	.573	.522	.472	.413	.369	.323	.274	.232		
19	1.00	1.00	.988	.972	.956	.891	.837	.774	.704	.657	.599	.550	.500	.440	.393	.347	.296	.252	.214	
20	1.00	1.00	.992	.978	.964	.901	.851	.792	.722	.683	.625	.577	.528	.466	.419	.371	.319	.272	.232	.198
21	1.00	1.00	.994	.984	.972	.911	.861	.810	.738	.706	.649	.603	.554	.492	.446	.397	.341	.292	.250	.214
22	1.00	1.00	.996	.990	.978	.921	.871	.823	.754	.724	.671	.627	.581	.516	.472	.423	.365	.313	.268	.230
23	1.00	1.00	.998	.994	.984	.931	.881	.831	.770	.740	.694	.649	.605	.540	.496	.450	.389	.335	.286	.246
24	1.00	1.00	1.00	.996	.990	.942	.891	.839	.782	.756	.710	.673	.627	.563	.520	.474	.413	.357	.306	.262
25	1.00	1.00	1.00	.998	.994	.950	.901	.847	.792	.772	.724	.696	.651	.583	.542	.498	.435	.379	.327	.280
26	1.00	1.00	1.00	1.00	.996	.956	.911	.855	.802	.784	.738	.712	.675	.605	.563	.520	.458	.399	.347	.298
27	1.00	1.00	1.00	1.00	.998	.962	.917	.863	.813	.794	.752	.726	.698	.627	.585	.540	.478	.419	.365	.317
28	1.00	1.00	1.00	1.00	1.00	.968	.923	.869	.823	.804	.764	.740	.714	.649	.607	.563	.496	.438	.383	.333
29	1.00	1.00	1.00	1.00	1.00	.974	.929	.873	.831	.815	.774	.754	.728	.669	.629	.585	.516	.454	.399	.349
30	1.00	1.00	1.00	1.00	1.00	.980	.935	.877	.839	.823	.784	.766	.742	.683	.651	.607	.536	.472	.413	.363
31	1.00	1.00	1.00	1.00	1.00	.982	.940	.881	.845	.831	.792	.776	.756	.698	.671	.629	.556	.490	.429	.375
32	1.00	1.00	1.00	1.00	1.00	.984	.944	.885	.851	.839	.800	.784	.768	.712	.685	.651	.577	.508	.446	.389
33	1.00	1.00	1.00	1.00	1.00	.986	.946	.887	.857	.845	.808	.792	.776	.726	.700	.671	.597	.526	.462	.403
34	1.00	1.00	1.00	1.00	1.00	.988	.948	.889	.863	.851	.817	.800	.784	.738	.714	.685	.617	.544	.478	.417
35	1.00	1.00	1.00	1.00	1.00	.990	.950	.889	.867	.857	.825	.808	.792	.748	.726	.700	.635	.563	.494	.431
36	1.00	1.00	1.00	1.00	1.00	.992	.952	.889	.871	.863	.833	.817	.800	.758	.738	.712	.649	.581	.510	.446
37	1.00	1.00	1.00	1.00	1.00	.994	.954	.889	.873	.867	.841	.825	.808	.768	.748	.724	.661	.597	.526	.460
38	1.00	1.00	1.00	1.00	1.00	.996	.956	.889	.875	.871	.849	.833	.817	.778	.758	.736	.673	.607	.542	.474
39	1.00	1.00	1.00	1.00	1.00	.998	.958	.889	.875	.873	.853	.841	.825	.788	.768	.746	.685	.617	.556	.488
40	1.00	1.00	1.00	1.00	1.00	.962	.889	.875	.875	.857	.847	.833	.798	.778	.756	.698	.627	.567	.502	
TOTAL OBSERVATIONS 496																				

TABLE 3. 9.a.  $P(W < W^*)$  I CONSECUTIVE LAUNCH OPPORTUNITIES IN J PERIODS ( $W^* = 65$  M/SEC).  
BASED ON MAXIMUM WIND SPEEDS IN THE 10-15 KM LAYER OVER CAPE KENNEDY, FLORIDA.  
PERIOD OF RECORD JANUARY 1956 - DECEMBER 1963.

CAPE KENNEDY, FLORIDA MARCH  
SPEEDS LESS THAN 065 MPS

P ( I SUCCESSES IN J PERIODS )

J	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
1	.798																			
2	.865	.730																		
3	.907	.808	.673																	
4	.929	.869	.760	.623																
5	.942	.907	.835	.714	.575															
6	.954	.923	.885	.796	.677	.528														
7	.964	.942	.903	.851	.772	.635	.492													
8	.974	.954	.923	.875	.829	.736	.603	.460												
9	.982	.966	.938	.899	.857	.796	.710	.571	.429											
10	.986	.978	.952	.915	.883	.833	.772	.683	.536	.407										
11	.990	.982	.968	.931	.901	.863	.815	.750	.655	.508	.383									
12	.992	.988	.972	.952	.921	.881	.845	.802	.726	.629	.478	.361								
13	.994	.990	.980	.958	.946	.903	.865	.831	.788	.704	.599	.454	.339							
14	.996	.992	.986	.966	.952	.931	.893	.849	.815	.778	.673	.575	.431	.317						
15	.998	.994	.990	.976	.958	.940	.925	.881	.827	.804	.760	.643	.558	.407	.296					
16	1.00	.996	.992	.986	.966	.948	.933	.917	.861	.815	.788	.734	.629	.540	.387	.274				
17	1.00	1.00	.994	.990	.980	.956	.942	.927	.897	.851	.796	.770	.720	.613	.526	.365	.252			
18	1.00	1.00	1.00	.992	.988	.972	.950	.935	.909	.885	.833	.784	.752	.710	.599	.508	.343	.232		
19	1.00	1.00	1.00	1.00	.990	.986	.966	.944	.917	.901	.859	.827	.770	.740	.702	.579	.492	.321	.214	
20	1.00	1.00	1.00	1.00	1.00	.990	.984	.960	.923	.913	.873	.853	.821	.758	.730	.685	.565	.472	.300	.198
21	1.00	1.00	1.00	1.00	1.00	1.00	.990	.982	.938	.919	.887	.867	.847	.815	.750	.714	.671	.546	.452	.282
22	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.990	.964	.931	.893	.881	.861	.841	.810	.740	.700	.655	.524	.433
23	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.976	.960	.903	.887	.873	.855	.839	.806	.726	.688	.633	.504
24	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.988	.974	.933	.895	.877	.867	.851	.837	.796	.716	.669	.611
25	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.990	.986	.958	.919	.881	.869	.865	.847	.831	.790	.704	.649
26	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.992	.988	.974	.948	.897	.871	.867	.863	.841	.825	.782	.688
27	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.994	.990	.978	.970	.919	.883	.869	.865	.861	.835	.819	.770
28	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.996	.992	.982	.974	.948	.901	.877	.867	.863	.859	.829	.808
29	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.998	.994	.986	.978	.956	.925	.895	.871	.865	.861	.855	.823
30	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.996	.990	.982	.962	.933	.917	.887	.867	.863	.857	.851
31	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.994	.986	.968	.940	.923	.909	.879	.865	.859	.853
32	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.992	.974	.944	.931	.913	.899	.875	.861	.855
33	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.984	.948	.935	.921	.903	.893	.869	.857
34	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.998	.958	.940	.925	.911	.897	.883	.863
35	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.978	.948	.929	.915	.905	.887	.873	
36	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.986	.970	.935	.919	.909	.893	.879
37	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.990	.982	.956	.925	.913	.895	.887
38	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.994	.946	.970	.946	.919	.897	.891
39	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.998	.990	.976	.962	.938	.901	.893
40	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.996	.980	.970	.954	.915	.897

TOTAL OBSERVATIONS 496

TABLE 3. 9.b. P(W < W\*) I LAUNCH OPPORTUNITIES IN J PERIODS (W\* = 65 M/SEC).  
BASED ON MAXIMUM WIND SPEEDS IN THE 10-15 KM LAYER OVER CAPE KENNEDY, FLORIDA.  
PERIOD OF RECORD JANUARY 1956 - DECEMBER 1963.



CAPE KENNEDY, FLORIDA MARCH  
SPEEDS LESS THAN 070 MPS

PC ( I CONSECUTIVE SUCCESSES IN J PERIODS )

	I																			
J	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
1	.863																			
2	.917	.808																		
3	.948	.851	.764																	
4	.966	.893	.800	.726																
5	.976	.919	.837	.762	.688															
6	.984	.940	.873	.798	.720	.653														
7	.988	.952	.895	.835	.752	.683	.625													
8	.992	.962	.913	.871	.784	.714	.655	.495												
9	.994	.972	.927	.893	.817	.744	.685	.623	.567											
10	.996	.980	.940	.911	.849	.774	.714	.651	.591	.544										
11	.998	.984	.954	.925	.869	.804	.746	.679	.615	.560	.522									
12	1.00	.988	.962	.940	.885	.835	.776	.708	.639	.593	.542	.504								
13	1.00	.992	.966	.954	.899	.855	.806	.736	.663	.617	.563	.524	.486							
14	1.00	.994	.970	.962	.913	.873	.835	.764	.688	.641	.583	.544	.506	.468						
15	1.00	.996	.974	.966	.927	.887	.857	.790	.712	.665	.603	.565	.526	.486	.452					
16	1.00	.998	.978	.970	.938	.901	.875	.821	.736	.690	.625	.585	.546	.504	.470	.433				
17	1.00	1.00	.982	.974	.946	.915	.889	.841	.764	.714	.647	.607	.567	.522	.488	.452	.415			
18	1.00	1.00	.986	.978	.954	.925	.903	.857	.792	.742	.669	.629	.589	.540	.506	.470	.431	.399		
19	1.00	1.00	.990	.982	.962	.933	.917	.869	.810	.770	.696	.651	.611	.560	.524	.488	.448	.415	.383	
20	1.00	1.00	.992	.986	.970	.942	.927	.881	.825	.796	.722	.677	.633	.581	.544	.506	.464	.431	.399	.367
21	1.00	1.00	.994	.990	.976	.950	.935	.893	.835	.815	.746	.704	.659	.601	.565	.526	.480	.448	.415	.383
22	1.00	1.00	.996	.992	.982	.958	.944	.903	.845	.829	.768	.728	.685	.625	.585	.546	.498	.464	.431	.399
23	1.00	1.00	.998	.994	.988	.966	.952	.911	.855	.839	.790	.750	.710	.649	.607	.567	.516	.482	.448	.415
24	1.00	1.00	1.00	.996	.992	.974	.960	.919	.863	.849	.806	.774	.732	.671	.629	.580	.534	.500	.466	.431
25	1.00	1.00	1.00	.998	.994	.982	.968	.927	.869	.859	.819	.796	.756	.692	.649	.611	.554	.518	.484	.450
26	1.00	1.00	1.00	1.00	.996	.988	.976	.935	.875	.867	.831	.813	.780	.714	.667	.631	.575	.538	.502	.468
27	1.00	1.00	1.00	1.00	.998	.992	.982	.944	.881	.873	.843	.825	.802	.736	.688	.649	.593	.558	.520	.486
28	1.00	1.00	1.00	1.00	1.00	.996	.988	.950	.887	.879	.855	.837	.819	.758	.708	.669	.609	.577	.538	.504
29	1.00	1.00	1.00	1.00	1.00	.998	.992	.956	.891	.885	.865	.849	.831	.771	.728	.690	.627	.593	.554	.522
30	1.00	1.00	1.00	1.00	1.00	1.00	.994	.962	.895	.889	.875	.861	.843	.796	.748	.710	.645	.611	.569	.538
31	1.00	1.00	1.00	1.00	1.00	1.00	.998	.968	.899	.893	.883	.871	.855	.810	.766	.730	.663	.629	.585	.552
32	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.974	.903	.897	.889	.879	.867	.825	.782	.750	.681	.647	.601	.569
33	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.978	.907	.901	.895	.885	.875	.839	.794	.768	.700	.665	.617	.585
34	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.982	.911	.905	.899	.891	.881	.851	.806	.784	.718	.683	.633	.601
35	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.984	.913	.909	.903	.897	.887	.859	.817	.796	.734	.702	.649	.617
36	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.986	.915	.913	.907	.901	.893	.867	.825	.806	.748	.720	.665	.633
37	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.988	.917	.915	.911	.905	.899	.875	.831	.815	.760	.736	.681	.649
38	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.990	.919	.917	.915	.909	.903	.881	.837	.823	.770	.748	.698	.665
39	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.992	.921	.919	.917	.913	.907	.891	.843	.829	.780	.758	.712	.681
40	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.994	.923	.921	.919	.917	.911	.897	.849	.835	.790	.768	.722	.696

TOTAL OBSERVATIONS 496

TABLE 3.10.a. P(W < W\*) I CONSECUTIVE LAUNCH OPPORTUNITIES IN J PERIODS (W\* = 70 M/SEC).  
BASED ON MAXIMUM WIND SPEEDS IN THE 10-15 KM LAYER OVER CAPE KENNEDY, FLORIDA.  
PERIOD OF RECORD JANUARY 1956 - DECEMBER 1963.

CAPE KENNEDY, FLORIDA WPCW  
SPEEDS LESS THAN 070 MPS

P ( I SUCCESSSES IN J PERIODS )

	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
1	.863																			
2	.917	.808																		
3	.948	.875	.764																	
4	.966	.913	.841	.726																
5	.976	.940	.887	.815	.686															
6	.984	.954	.921	.865	.784	.653														
7	.988	.968	.942	.901	.843	.758	.625													
8	.992	.976	.958	.925	.883	.819	.736	.595												
9	.994	.977	.970	.944	.913	.861	.798	.714	.567											
10	.996	.987	.976	.960	.935	.895	.843	.778	.692	.544										
11	.998	.990	.982	.964	.956	.919	.883	.823	.760	.673	.522									
12	1.00	.992	.988	.970	.960	.944	.911	.865	.808	.742	.651	.504								
13	1.00	.996	.990	.980	.964	.950	.938	.901	.847	.794	.724	.633	.486							
14	1.00	.998	.994	.986	.972	.956	.944	.931	.887	.831	.780	.710	.615	.468						
15	1.00	1.00	.996	.992	.980	.964	.950	.940	.921	.873	.817	.766	.698	.595	.452					
16	1.00	1.00	1.00	.994	.990	.972	.958	.946	.931	.911	.863	.798	.756	.683	.581	.433				
17	1.00	1.00	1.00	1.00	.992	.986	.966	.954	.940	.925	.901	.843	.788	.748	.673	.565	.415			
18	1.00	1.00	1.00	1.00	1.00	.990	.980	.964	.950	.933	.917	.883	.829	.782	.740	.661	.546	.399		
19	1.00	1.00	1.00	1.00	1.00	1.00	.986	.978	.962	.946	.927	.897	.873	.819	.776	.732	.645	.532	.383	
20	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.984	.976	.960	.942	.911	.883	.867	.810	.770	.718	.635	.518	.367
21	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.982	.974	.958	.927	.895	.877	.865	.804	.760	.708	.625	.504
22	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.980	.972	.948	.911	.887	.873	.863	.796	.752	.698	.615
23	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.978	.964	.933	.901	.881	.871	.859	.786	.744	.688
24	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.972	.950	.923	.895	.877	.867	.851	.778	.736
25	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.998	.960	.940	.915	.891	.871	.861	.847	.770
26	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.990	.950	.931	.909	.883	.865	.859	.843
27	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.994	.984	.942	.925	.899	.875	.863	.855
28	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.998	.988	.976	.938	.913	.891	.871	.859
29	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.994	.980	.972	.925	.905	.887	.865
30	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.998	.988	.976	.960	.919	.899	.881
31	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.992	.986	.964	.956	.913	.891
32	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.998	.988	.976	.960	.952	.903
33	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.994	.980	.972	.956	.944
34	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.998	.988	.974	.970	.952
35	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.994	.980	.972	.968
36	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.986	.976	.970
37	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.996	.982	.972
38	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.998	.994	.976
39	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.996	.988
40	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.990

TOTAL OBSERVATIONS 496

TABLE 3.10.b. P(W < W\*) I LAUNCH OPPORTUNITIES IN J PERIODS (W\* = 70 M/SEC).  
BASED ON MAXIMUM WIND SPEEDS IN THE 10-15 KM LAYER OVER CAPE KENNEDY, FLORIDA.  
PERIOD OF RECORD JANUARY 1956 - DECEMBER 1963.

CAPE KENNEDY, FLORIDA MARCH  
SPEEDS LESS THAN 75 MPS

PC ( I CONSECUTIVE SUCCESSES IN J PERIODS )

	I																			
J	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
1	.915																			
2	.954	.877																		
3	.968	.907	.845																	
4	.978	.938	.871	.817																
5	.986	.950	.897	.843	.786															
6	.992	.962	.923	.869	.806	.762														
7	.996	.970	.938	.895	.827	.780	.740													
8	1.00	.976	.950	.921	.847	.798	.758	.718												
9	1.00	.982	.960	.933	.867	.817	.776	.734	.598											
10	1.00	.988	.970	.944	.889	.835	.794	.750	.712	.681										
11	1.00	.992	.980	.952	.903	.855	.813	.766	.726	.696	.663									
12	1.00	.996	.988	.962	.915	.875	.833	.782	.740	.710	.677	.645								
13	1.00	1.00	.992	.972	.927	.887	.853	.800	.754	.724	.692	.659	.627							
14	1.00	1.00	.996	.980	.940	.899	.873	.819	.770	.738	.706	.673	.641	.609						
15	1.00	1.00	1.00	.984	.952	.911	.887	.837	.786	.754	.720	.688	.655	.623	.591					
16	1.00	1.00	1.00	.988	.962	.923	.899	.857	.802	.770	.736	.702	.669	.637	.603	.577				
17	1.00	1.00	1.00	.992	.968	.935	.911	.869	.821	.786	.752	.718	.683	.651	.615	.589	.560			
18	1.00	1.00	1.00	.994	.974	.945	.923	.881	.839	.804	.768	.734	.700	.665	.627	.601	.573	.544		
19	1.00	1.00	1.00	.996	.980	.954	.935	.893	.849	.823	.786	.750	.716	.681	.639	.613	.585	.556	.528	
20	1.00	1.00	1.00	.998	.984	.962	.946	.905	.861	.841	.804	.768	.732	.698	.653	.625	.597	.569	.540	.514
21	1.00	1.00	1.00	1.00	.986	.970	.954	.917	.86	.81	.823	.786	.750	.714	.667	.639	.609	.581	.552	.524
22	1.00	1.00	1.00	1.00	.988	.976	.962	.927	.87	.81	.841	.804	.768	.732	.681	.653	.623	.593	.565	.534
23	1.00	1.00	1.00	1.00	.990	.980	.970	.935	.889	.871	.853	.823	.786	.750	.698	.667	.637	.607	.577	.544
24	1.00	1.00	1.00	1.00	.992	.984	.976	.944	.897	.881	.863	.843	.804	.768	.714	.685	.651	.621	.591	.554
25	1.00	1.00	1.00	1.00	.994	.988	.980	.952	.903	.891	.873	.855	.825	.786	.730	.700	.667	.635	.605	.567
26	1.00	1.00	1.00	1.00	.996	.992	.984	.958	.909	.899	.883	.865	.845	.806	.746	.716	.683	.651	.619	.579
27	1.00	1.00	1.00	1.00	.998	.994	.988	.962	.915	.905	.893	.875	.857	.827	.764	.732	.700	.667	.635	.591
28	1.00	1.00	1.00	1.00	1.00	.996	.992	.966	.919	.911	.901	.885	.867	.847	.782	.750	.716	.683	.651	.605
29	1.00	1.00	1.00	1.00	1.00	.998	.994	.970	.921	.915	.907	.895	.877	.859	.800	.768	.734	.700	.667	.619
30	1.00	1.00	1.00	1.00	1.00	1.00	.996	.974	.923	.919	.911	.903	.887	.869	.819	.786	.752	.718	.683	.633
31	1.00	1.00	1.00	1.00	1.00	1.00	.998	.978	.925	.921	.915	.907	.897	.879	.833	.804	.770	.736	.702	.647
32	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.982	.927	.923	.919	.911	.903	.889	.845	.823	.788	.754	.720	.663
33	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.986	.929	.925	.921	.915	.907	.897	.857	.837	.806	.772	.738	.679
34	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.990	.931	.927	.923	.919	.911	.903	.867	.849	.825	.790	.756	.696
35	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.992	.933	.929	.925	.921	.915	.907	.877	.859	.839	.808	.774	.712
36	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.994	.935	.931	.927	.923	.919	.911	.885	.869	.849	.827	.792	.728
37	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.996	.938	.933	.929	.925	.921	.915	.891	.877	.859	.839	.810	.744
38	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.998	.940	.935	.931	.927	.923	.919	.897	.885	.867	.849	.827	.760
39	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.942	.938	.933	.929	.925	.921	.903	.891	.875	.857	.839	.774
40	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.944	.940	.935	.931	.927	.923	.909	.897	.883	.865	.847	.788

TOTAL OBSERVATIONS 496

TABLE 3.11.a. P(W < W\*) I CONSECUTIVE LAUNCH OPPORTUNITIES IN J PERIODS (W\* = 75 M/SEC).  
BASED ON MAXIMUM WIND SPEEDS IN THE 10-15 KM LAYER OVER CAPE KENNEDY, FLORIDA.

CAPE KENNEDY, FLORIDA MARCH  
 SPEEDS LESS THAN 075 MPS

P ( I SUCCESSES IN J PERIODS )

J	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20		
1	.915																					
2	.954	.877																				
3	.968	.931	.845																			
4	.978	.948	.913	.817																		
5	.986	.960	.933	.899	.786																	
6	.992	.970	.948	.923	.879	.762																
7	.996	.978	.962	.938	.911	.859	.740															
8	1.00	.984	.972	.954	.923	.901	.839	.718														
9	1.00	.992	.980	.966	.942	.913	.887	.821	.698													
10	1.00	.996	.988	.976	.956	.933	.901	.871	.804	.681												
11	1.00	1.00	.992	.984	.968	.950	.923	.889	.853	.794	.663											
12	1.00	1.00	1.00	.988	.976	.964	.944	.911	.873	.841	.782	.645										
13	1.00	1.00	1.00	1.00	.982	.970	.960	.935	.897	.861	.831	.770	.627									
14	1.00	1.00	1.00	1.00	.998	.976	.966	.946	.925	.885	.851	.821	.758	.609								
15	1.00	1.00	1.00	1.00	1.00	.994	.972	.962	.950	.917	.875	.841	.808	.748	.591							
16	1.00	1.00	1.00	1.00	1.00	1.00	.990	.968	.958	.944	.909	.867	.827	.800	.736	.577						
17	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.986	.964	.954	.940	.901	.853	.817	.794	.724	.560					
18	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.982	.960	.952	.935	.885	.845	.808	.788	.712	.544				
19	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.998	.980	.958	.950	.923	.877	.837	.800	.782	.698	.528			
20	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.996	.978	.956	.940	.919	.869	.827	.794	.776	.683	.514		
21	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.994	.976	.946	.938	.913	.859	.821	.788	.770	.671		
22	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.992	.968	.942	.933	.903	.855	.815	.782	.754			
23	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.986	.962	.938	.927	.897	.851	.808	.776			
24	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.998	.978	.958	.933	.921	.893	.847	.802		
25	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.992	.972	.956	.929	.915	.889	.843		
26	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.996	.988	.968	.954	.925	.909	.885	
27	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.998	.992	.986	.964	.952	.921	.901	
28	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.996	.988	.982	.962	.950	.915	
29	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.992	.984	.980	.960	.946	
30	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.998	.988	.982	.978	.956	
31	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.994	.986	.980	.974	
32	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.990	.984	.976	
33	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.986	.980	
34	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.998	.984
35	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.996
36	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
37	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
38	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
39	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
40	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00

TOTAL OBSERVATIONS 496

TABLE 3.11 b. P(W < W\*) I LAUNCH OPPORTUNITIES IN J PERIODS (W\* = 75 M/SEC).  
 BASED ON MAXIMUM WIND SPEEDS IN THE 10-15 KM LAYER OVER CAPE KENNEDY, FLORIDA.  
 PERIOD OF RECORD JANUARY 1956 - DECEMBER 1963.

CAPE KENNEDY, FLORIDA MARCH  
SPEEDS LESS THAN 80 MPS

PC ( I CONSECUTIVE SUCCESSES IN J PERIODS )

	I																			
J	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
1	.950																			
2	.970	.929																		
3	.980	.948	.909																	
4	.988	.966	.925	.891																
5	.994	.974	.942	.905	.875															
6	.996	.982	.958	.919	.897	.861														
7	.998	.988	.968	.933	.899	.873	.847													
8	1.00	.990	.976	.950	.911	.885	.859	.833												
9	1.00	.992	.982	.960	.925	.897	.871	.845	.819											
10	1.00	.994	.986	.968	.940	.911	.883	.857	.831	.806										
11	1.00	.995	.990	.976	.948	.925	.897	.869	.843	.817	.796									
12	1.00	.998	.994	.982	.956	.940	.911	.885	.855	.827	.806	.786								
13	1.00	1.00	.996	.988	.964	.948	.925	.897	.869	.837	.817	.796	.776							
14	1.00	1.00	.998	.994	.972	.956	.940	.911	.883	.849	.827	.806	.786	.766						
15	1.00	1.00	1.00	.996	.980	.964	.948	.925	.897	.861	.839	.817	.796	.774	.758					
16	1.00	1.00	1.00	.998	.988	.972	.956	.940	.911	.875	.851	.830	.806	.782	.766	.750				
17	1.00	1.00	1.00	1.00	.992	.980	.964	.948	.925	.885	.863	.841	.819	.790	.774	.756	.744			
18	1.00	1.00	1.00	1.00	.996	.988	.972	.956	.940	.897	.875	.853	.831	.800	.782	.762	.750	.738		
19	1.00	1.00	1.00	1.00	1.00	.992	.980	.964	.948	.909	.887	.865	.843	.810	.792	.769	.756	.744	.730	
20	1.00	1.00	1.00	1.00	1.00	.996	.988	.972	.956	.921	.899	.877	.855	.821	.802	.776	.762	.750	.736	.722
21	1.00	1.00	1.00	1.00	1.00	1.00	.992	.980	.964	.931	.911	.889	.867	.831	.813	.784	.770	.756	.742	.728
22	1.00	1.00	1.00	1.00	1.00	1.00	.996	.988	.972	.942	.923	.901	.879	.841	.823	.792	.778	.764	.748	.734
23	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.992	.980	.952	.933	.913	.891	.851	.833	.800	.786	.772	.756	.740
24	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.996	.988	.962	.944	.925	.903	.861	.843	.808	.794	.780	.764	.748
25	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.992	.972	.954	.935	.915	.871	.853	.817	.802	.788	.772	.756
26	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.996	.982	.964	.946	.927	.881	.863	.825	.810	.796	.780	.764
27	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.988	.974	.956	.938	.891	.873	.833	.819	.804	.788	.772
28	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.994	.984	.966	.948	.901	.883	.841	.827	.813	.796	.780
29	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.998	.990	.976	.958	.909	.893	.849	.835	.821	.804	.788
30	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.994	.986	.968	.917	.903	.857	.843	.829	.813	.796
31	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.998	.990	.978	.925	.911	.865	.851	.837	.821	.804
32	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.994	.986	.933	.919	.873	.859	.845	.829	.813
33	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.998	.990	.940	.927	.881	.867	.853	.837	.821
34	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.994	.946	.933	.889	.875	.861	.845	.829
35	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.998	.950	.940	.895	.883	.869	.853	.837
36	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.954	.946	.901	.889	.877	.861	.845
37	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.958	.950	.907	.895	.883	.869	.853
38	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.962	.954	.913	.901	.889	.875	.861
39	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.964	.958	.917	.907	.895	.881	.867
40	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.966	.962	.921	.913	.901	.887	.873

TOTAL OBSERVATIONS 496

TABLE 3.12.a. P(W < W\*) I CONSECUTIVE LAUNCH OPPORTUNITIES IN J PERIODS (W\* = 80 M/SEC).  
BASED ON MAXIMUM WIND SPEEDS IN THE 10-15 KM LAYER OVER CAPE KENNEDY, FLORIDA.  
PERIOD OF RECORD JANUARY 1956 - DECEMBER 1963.

CAPE KENNEDY, FLORIDA ARCH  
 SPEEDS LESS THAN 30 M/S

P ( I SUCCESSSES IN J PERIODS )

	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
1	.950																			
2	.970	.929																		
3	.980	.959	.909																	
4	.988	.968	.946	.891																
5	.994	.978	.958	.933	.875															
6	.996	.989	.970	.948	.921	.861														
7	.998	.990	.984	.962	.935	.913	.847													
8	1.00	.992	.988	.980	.950	.927	.905	.833												
9	1.00	.996	.990	.986	.972	.942	.919	.897	.819											
10	1.00	.998	.994	.988	.982	.966	.933	.911	.889	.806										
11	1.00	1.00	.996	.992	.986	.978	.960	.925	.903	.881	.796									
12	1.00	1.00	1.00	.994	.990	.984	.974	.954	.917	.895	.873	.786								
13	1.00	1.00	1.00	1.00	.992	.988	.982	.970	.948	.909	.889	.865	.776							
14	1.00	1.00	1.00	1.00	1.00	.990	.986	.980	.966	.942	.903	.883	.857	.766						
15	1.00	1.00	1.00	1.00	1.00	1.00	.988	.984	.978	.962	.938	.897	.877	.847	.758					
16	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.986	.982	.976	.960	.933	.891	.867	.841	.750				
17	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.984	.980	.976	.958	.929	.879	.863	.833	.744			
18	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.982	.980	.976	.956	.917	.875	.859	.825	.738		
19	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.982	.980	.976	.948	.911	.871	.855	.817	.730	
20	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.982	.980	.972	.944	.905	.867	.849	.810	.722
21	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.982	.978	.970	.938	.901	.861	.845	.804
22	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.982	.976	.966	.933	.895	.857	.841
23	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.982	.972	.964	.925	.893	.853
24	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.980	.970	.958	.921	.891
25	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.978	.964	.956	.917
26	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.972	.962	.954
27	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.998	.962	.960
28	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.996	.964
29	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.992
30	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.998
31	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
32	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
33	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
34	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
35	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
36	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
37	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
38	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
39	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
40	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00

TOTAL OBSERVATIONS 496

TABLE 3.12.b. P(W < W\*) I LAUNCH OPPORTUNITIES IN J PERIODS (W\* = 30 M/SEC).  
 BASED ON MAXIMUM WIND SPEEDS IN THE 10-15 KM LAYER OVER CAPE KENNEDY, FLORIDA.  
 PERIOD OF RECORD JANUARY 1956 - DECEMBER 1963.

CAPE KENNEDY , FLORIDA MARCH  
SPEEDS LESS THAN 085 MPS

PC ( I CONSECUTIVE SUCCESSES IN J PERIODS )

	I																			
J	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
1	.976																			
2	.986	.966																		
3	.990	.974	.956																	
4	.992	.982	.962	.948																
5	.994	.988	.968	.954	.940															
6	.996	.992	.976	.960	.946	.931														
7	.998	.994	.982	.968	.952	.938	.923													
8	1.00	.996	.986	.976	.960	.944	.929	.915												
9	1.00	.998	.988	.982	.968	.952	.935	.921	.907											
10	1.00	1.00	.990	.986	.976	.960	.944	.927	.913	.901										
11	1.00	1.00	.992	.988	.982	.968	.952	.935	.919	.907	.895									
12	1.00	1.00	.994	.990	.986	.976	.960	.944	.927	.913	.901	.889								
13	1.00	1.00	.996	.992	.988	.982	.968	.952	.935	.921	.907	.895	.883							
14	1.00	1.00	.998	.994	.990	.986	.976	.960	.944	.929	.915	.901	.889	.877						
15	1.00	1.00	1.00	.996	.992	.988	.982	.968	.952	.938	.923	.909	.895	.883	.871					
16	1.00	1.00	1.00	.998	.994	.990	.986	.976	.960	.946	.931	.917	.903	.889	.877	.865				
17	1.00	1.00	1.00	1.00	.996	.992	.988	.982	.968	.954	.940	.925	.911	.897	.883	.871	.859			
18	1.00	1.00	1.00	1.00	.998	.994	.990	.986	.976	.962	.948	.933	.919	.905	.891	.877	.865	.853		
19	1.00	1.00	1.00	1.00	1.00	.996	.992	.968	.982	.970	.956	.942	.927	.913	.899	.885	.871	.859	.845	
20	1.00	1.00	1.00	1.00	1.00	.998	.994	.990	.986	.978	.964	.950	.935	.921	.907	.893	.879	.865	.851	.837
21	1.00	1.00	1.00	1.00	1.00	1.00	.996	.992	.988	.984	.972	.958	.944	.929	.915	.901	.887	.873	.857	.843
22	1.00	1.00	1.00	1.00	1.00	1.00	.998	.994	.990	.988	.980	.966	.952	.938	.923	.909	.895	.881	.865	.849
23	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.996	.992	.990	.986	.974	.960	.946	.931	.917	.903	.889	.873	.857
24	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.998	.994	.992	.990	.982	.968	.954	.940	.925	.911	.897	.881	.865
25	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.996	.994	.992	.988	.976	.962	.948	.933	.919	.905	.889	.873
26	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.998	.996	.994	.992	.984	.970	.956	.942	.927	.913	.897	.881
27	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.998	.996	.994	.990	.978	.964	.950	.935	.921	.905	.889	
28	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.998	.996	.994	.986	.972	.958	.944	.929	.913	.897
29	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.998	.996	.992	.980	.966	.952	.938	.921	.905
30	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.998	.996	.988	.974	.960	.946	.929	.913
31	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.998	.994	.982	.968	.954	.938	.921
32	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.998	.990	.976	.962	.946	.929
33	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.996	.984	.970	.954	.938
34	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.992	.978	.962	.946
35	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.998	.986	.970	.954
36	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.994	.978	.962
37	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.998	.986	.970
38	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.992	.978
39	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.996	.984
40	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.998	.990

TOTAL OBSERVATIONS 496

TABLE 3.13.a. P(W < W\*) I CONSECUTIVE LAUNCH OPPORTUNITIES IN J PERIODS (W\* = 85 M/SEC).  
BASED ON MAXIMUM WIND SPEEDS IN THE 10-15 KM LAYER OVER CAPE KENNEDY, FLORIDA.  
PERIOD OF RECORD JANUARY 1956 - DECEMBER 1963.

CAPE KENNEDY, FLORIDA MARCH  
SPEEDS LESS THAN 085 MPS

P ( I SUCCESSES IN J PERIODS )

	I																			
J	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
1	.976																			
2	.986	.966																		
3	.990	.980	.956																	
4	.992	.988	.972	.948																
5	.994	.990	.984	.966	.940															
6	.996	.992	.986	.982	.960	.931														
7	.998	.994	.988	.984	.980	.954	.923													
8	1.00	.996	.990	.986	.982	.978	.948	.915												
9	1.00	1.00	.992	.988	.984	.980	.976	.942	.907											
10	1.00	1.00	.998	.990	.986	.982	.978	.974	.935	.901										
11	1.00	1.00	1.00	.996	.988	.984	.980	.976	.972	.929	.895									
12	1.00	1.00	1.00	1.00	.994	.986	.982	.978	.974	.970	.923	.889								
13	1.00	1.00	1.00	1.00	1.00	.992	.984	.980	.976	.972	.968	.919	.883							
14	1.00	1.00	1.00	1.00	1.00	1.00	.990	.982	.978	.974	.970	.968	.915	.877						
15	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.988	.980	.976	.972	.970	.968	.911	.871					
16	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.986	.978	.974	.972	.970	.968	.907	.865				
17	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.984	.976	.974	.972	.970	.968	.903	.859			
18	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.982	.976	.974	.972	.970	.968	.899	.853		
19	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.982	.976	.974	.972	.970	.968	.895	.845	
20	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.982	.976	.974	.972	.970	.968	.991	.837
21	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.982	.976	.974	.972	.970	.968	.887
22	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.982	.976	.974	.972	.970	.968
23	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.982	.976	.974	.972	.970
24	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.982	.976	.974	.972
25	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.982	.976	.974
26	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.982	.976
27	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.982
28	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
29	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
30	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
31	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
32	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
33	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
34	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
35	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
36	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
37	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
38	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
39	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
40	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00

TOTAL OBSERVATIONS 496

TABLE 3.13.b. P(W < W\*) I LAUNCH OPPORTUNITIES IN J PERIODS (W\* = 85 M/SEC).  
BASED ON MAXIMUM WIND SPEEDS IN THE 10-15 KM LAYER OVER CAPE KENNEDY, FLORIDA.  
PERIOD OF RECORD JANUARY 1956 - DECEMBER 1963.



CAPE KENNEDY, FLORIDA MARCH  
SPEEDS LESS THAN 090 MPS

PC ( I CONSECUTIVE SUCCESSES IN J PERIODS )

	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
1	.986																			
2	.990	.982																		
3	.994	.986	.978																	
	.996	.990	.982	.974																
5	.998	.994	.986	.978	.970															
6	1.00	.996	.990	.982	.974	.966														
7	1.00	.998	.994	.986	.978	.970	.962													
8	1.00	1.00	.996	.990	.982	.974	.966	.958												
9	1.00	1.00	.998	.994	.986	.978	.970	.962	.954											
10	1.00	1.00	1.00	.996	.990	.982	.974	.966	.958	.950										
11	1.00	1.00	1.00	.998	.994	.986	.978	.970	.962	.954	.946									
12	1.00	1.00	1.00	1.00	.996	.990	.982	.974	.966	.958	.950	.942								
13	1.00	1.00	1.00	1.00	.998	.994	.986	.978	.970	.962	.954	.946	.938							
14	1.00	1.00	1.00	1.00	1.00	.996	.990	.982	.974	.966	.958	.950	.942	.935						
15	1.00	1.00	1.00	1.00	1.00	.998	.994	.986	.978	.970	.962	.954	.946	.940	.933					
16	1.00	1.00	1.00	1.00	1.00	1.00	.996	.990	.982	.974	.966	.958	.950	.944	.938	.931				
17	1.00	1.00	1.00	1.00	1.00	1.00	.998	.994	.986	.978	.970	.962	.954	.948	.942	.935	.929			
18	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.996	.990	.982	.974	.966	.958	.952	.946	.940	.933	.927		
19	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.998	.994	.986	.978	.970	.962	.956	.950	.944	.938	.931	.925	
20	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.996	.990	.982	.974	.966	.960	.954	.948	.942	.935	.929	.923
21	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.998	.994	.986	.978	.970	.964	.958	.952	.946	.940	.933	.927
22	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.996	.990	.982	.974	.968	.962	.956	.950	.944	.938	.931
23	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.998	.994	.986	.978	.972	.966	.960	.954	.948	.942	.935
24	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.996	.990	.982	.976	.970	.964	.958	.952	.946	.940
25	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.998	.994	.986	.980	.974	.968	.962	.956	.950	.944
26	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.996	.990	.984	.978	.972	.966	.960	.954	.948
27	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.998	.994	.988	.982	.976	.970	.964	.958	.952
28	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.996	.992	.986	.980	.974	.968	.962	.956
29	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.998	.996	.990	.984	.978	.972	.966	.960
30	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.994	.994	.988	.982	.976	.970	.964
31	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.998	.992	.986	.980	.974	.968
32	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.996	.990	.984	.978	.972
33	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.994	.988	.982	.976
34	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.998	.992	.986	.980
35	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.996	.990	.984	.978
36	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.998	.994	.988	.982
37	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.996	.992	.986	.980
38	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.998	.994	.988	.982
39	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.996	.992	.986	.980
40	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.998	.994	.988	.982

TOTAL OBSERVATIONS 496

TABLE 3.14.a. P(W < W\*) I CONSECUTIVE LAUNCH OPPORTUNITIES IN J PERIODS (W\* = 90 M/SEC),  
BASED ON MAXIMUM WIND SPEEDS IN THE 10-15 KM LAYER OVER CAPE KENNEDY, FLORIDA.  
PERIOD OF RECORD JANUARY 1956 - DECEMBER 1963.

CAPE KENNEDY, FLORIDA MARCH  
SPEEDS LESS THAN 090 MPS

P ( I SUCCESSES IN J PERIODS )

	I																			
J	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
1	.986																			
2	.990	.982																		
3	.994	.986	.978																	
4	.996	.992	.982	.974																
5	.998	.994	.990	.978	.970															
6	1.00	.996	.992	.988	.974	.966														
7	1.00	1.00	.994	.990	.986	.970	.962													
8	1.00	1.00	1.00	.992	.988	.984	.966	.958												
9	1.00	1.00	1.00	1.00	.990	.986	.982	.962	.954											
10	1.00	1.00	1.00	1.00	1.00	.988	.984	.980	.958	.950										
11	1.00	1.00	1.00	1.00	1.00	1.00	.986	.982	.978	.954	.946									
12	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.984	.980	.976	.950	.942								
13	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.982	.978	.974	.946	.938							
14	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.980	.976	.972	.942	.935						
15	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.978	.974	.970	.940	.933					
16	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.976	.972	.970	.938	.931				
17	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.974	.972	.970	.935	.929			
18	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.974	.972	.970	.933	.927		
19	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.974	.972	.970	.931	.925	
20	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.974	.972	.970	.929	.923
21	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.974	.972	.970	.927
22	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.974	.972	.970
23	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.974	.972
24	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.974
25	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
26	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
27	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
28	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
29	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
30	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
31	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
32	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
33	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
34	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
35	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
36	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
37	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
38	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
39	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
40	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00

TOTAL OBSERVATIONS 496

TABLE 14.b. P(W < W<sub>0</sub>) I LAUNCH OPPORTUNITIES IN J PERIODS (W<sub>0</sub> = 90 M/SEC).  
BASED ON MAXIMUM WIND SPEEDS IN THE 10-15 KM LAYER OVER CAPE KENNEDY, FLORIDA.  
PERIOD OF RECORD JANUARY 1956 - DECEMBER 1963.

CAPF KENNEDY , FLORIDA MARCH  
SPEEDS LESS THAN 095 MPS

PC ( I CONSECUTIVE SUCCESSES IN J PERIODS )

	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
1	.988																			
2	.992	.984																		
3	.995	.988	.980																	
4	.998	.992	.984	.976																
5	1.00	.996	.988	.980	.972															
6	1.00	.998	.992	.984	.976	.968														
7	1.00	1.00	.996	.988	.980	.972	.964													
8	1.00	1.00	.998	.992	.984	.976	.968	.960												
9	1.00	1.00	1.00	.996	.988	.980	.972	.964	.956											
10	1.00	1.00	1.00	.998	.992	.984	.976	.968	.960	.952										
11	1.00	1.00	1.00	1.00	.996	.988	.980	.972	.964	.956	.948									
12	1.00	1.00	1.00	1.00	.992	.992	.984	.976	.968	.960	.952	.944								
13	1.00	1.00	1.00	1.00	1.00	.996	.988	.980	.972	.964	.956	.948	.940							
14	1.00	1.00	1.00	1.00	1.00	.998	.992	.984	.976	.968	.960	.952	.944	.938						
15	1.00	1.00	1.00	1.00	1.00	1.00	.996	.988	.980	.972	.964	.956	.948	.942	.935					
16	1.00	1.00	1.00	1.00	1.00	1.00	.999	.992	.984	.976	.968	.960	.952	.946	.940	.933				
17	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.996	.988	.980	.972	.964	.956	.950	.944	.938	.931			
18	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.998	.992	.984	.976	.968	.960	.954	.948	.942	.935	.929		
19	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.996	.988	.980	.972	.964	.958	.952	.946	.940	.933	.927	
20	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.998	.992	.984	.976	.968	.962	.956	.950	.944	.938	.931	.925
21	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.996	.988	.980	.972	.966	.960	.954	.948	.942	.935	.929
22	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.998	.992	.984	.976	.970	.964	.958	.952	.946	.940	.933
23	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.996	.988	.980	.974	.968	.962	.956	.950	.944	.938
24	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.998	.992	.984	.978	.972	.966	.960	.954	.948	.942
25	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.996	.988	.982	.976	.970	.964	.958	.952	.946	.946
26	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.998	.992	.986	.980	.974	.968	.962	.956	.950	.950
27	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.996	.990	.984	.978	.972	.966	.960	.954	.954
28	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.998	.994	.988	.982	.976	.970	.964	.958	.958
29	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.998	.992	.986	.980	.974	.968	.962	.956	.962
30	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.996	.990	.984	.978	.972	.966
31	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.994	.988	.982	.976	.970
32	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.998	.992	.986	.980	.974
33	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.996	.990	.984	.978
34	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.998	.994	.988	.982
35	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.996	.992	.986	.986
36	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.998	.994	.990
37	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.996	.992	.992
38	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.998	.994
39	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.996	.996
40	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.998

TOTAL OBSERVATIONS 496

TABLE 3.15. a. P(W < W\*) I CONSECUTIVE LAUNCH OPPORTUNITIES IN J PERIODS (W\* = 95 M/SEC).  
BASED ON MAXIMUM WIND SPEEDS IN THE 10-15 KM LAYER OVER CAPE KENNEDY, FLORIDA.  
PERIOD OF RECORD JANUARY 1956 - DECEMBER 1963.

CAPE KENNEDY, FLORIDA MARCH  
SPEEDS LESS THAN 95 MPS

P ( I SUCCESSES IN J PERIODS )

	I																			
J	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
1	.988																			
2	.992	.984																		
3	.996	.988	.980																	
4	.998	.994	.984	.976																
5	1.00	.996	.992	.980	.972															
6	1.00	1.00	.994	.990	.976	.968														
7	1.00	1.00	1.00	.992	.988	.972	.964													
8	1.00	1.00	1.00	1.00	.990	.986	.968	.960												
9	1.00	1.00	1.00	1.00	1.00	.988	.984	.964	.956											
10	1.00	1.00	1.00	1.00	1.00	1.00	.984	.982	.960	.952										
11	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.984	.980	.954	.948									
12	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.982	.978	.952	.944								
13	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.980	.976	.948	.940							
14	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.978	.974	.944	.938						
15	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.976	.972	.942	.935					
16	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.974	.972	.940	.933				
17	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.974	.972	.938	.931			
18	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.974	.972	.935	.929		
19	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.974	.972	.933	.927	
20	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.974	.972	.931	.925
21	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.974	.972	.929
22	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.974	.972
23	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.974
24	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
25	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
26	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
27	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
28	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
29	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
30	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
31	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
32	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
33	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
34	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
35	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
36	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
37	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
38	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
39	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
40	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00

TOTAL OBSERVATIONS 496

TABLE 3.15. b. P(W < W\*) I LAUNCH OPPORTUNITIES IN J PERIODS (W\* = 95 M/SEC).  
BASED ON MAXIMUM WIND SPEEDS IN THE 10-15 KM LAYER OVER CAPE KENNEDY, FLORIDA.  
PERIOD OF RECORD JANUARY 1956 - DECEMBER 1963.

CAPE KENNEDY, FLORIDA APRIL  
SPEEDS LESS THAN 015 MPS

PC ( I CONSECUTIVE SUCCESSES IN J PERIODS )

	I																			
J	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
1	.048																			
2	.060	.035																		
3	.075	.044	.027																	
4	.088	.052	.031	.023																
5	.102	.060	.035	.027	.019															
6	.117	.067	.040	.031	.023	.015														
7	.131	.073	.044	.035	.027	.019	.010													
8	.146	.081	.046	.040	.031	.023	.015	.006												
9	.158	.090	.048	.044	.035	.027	.019	.010	.002											
10	.171	.096	.050	.046	.040	.031	.023	.015	.004	.000										
11	.185	.102	.052	.048	.044	.035	.027	.019	.006	.000	.000									
12	.200	.108	.054	.050	.046	.040	.031	.023	.008	.000	.000	.000								
13	.215	.115	.056	.052	.048	.044	.035	.027	.010	.000	.000	.000	.000							
14	.229	.121	.058	.054	.050	.046	.040	.031	.013	.000	.000	.000	.000	.000						
15	.244	.127	.060	.056	.052	.048	.044	.035	.015	.000	.000	.000	.000	.000	.000					
16	.258	.133	.063	.058	.054	.050	.046	.040	.017	.000	.000	.000	.000	.000	.000	.000				
17	.271	.140	.065	.060	.056	.052	.048	.044	.019	.000	.000	.000	.000	.000	.000	.000	.000			
18	.283	.146	.067	.063	.058	.054	.050	.046	.021	.000	.000	.000	.000	.000	.000	.000	.000	.000		
19	.298	.152	.069	.065	.060	.056	.052	.048	.023	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	
20	.313	.160	.071	.067	.063	.058	.054	.050	.025	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
21	.328	.169	.075	.069	.065	.060	.056	.052	.027	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
22	.346	.179	.079	.073	.067	.063	.058	.054	.029	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
23	.363	.190	.083	.077	.071	.065	.060	.056	.031	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
24	.377	.200	.088	.081	.075	.067	.063	.058	.033	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
25	.392	.210	.092	.085	.075	.069	.065	.060	.035	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
26	.406	.221	.096	.090	.083	.071	.067	.063	.038	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
27	.421	.231	.100	.094	.088	.073	.069	.065	.040	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
28	.435	.242	.104	.098	.092	.075	.071	.067	.042	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
29	.450	.254	.108	.102	.096	.077	.073	.069	.044	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
30	.465	.267	.113	.106	.100	.079	.075	.071	.046	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
31	.479	.279	.119	.110	.104	.081	.077	.073	.048	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
32	.494	.292	.125	.117	.108	.083	.079	.075	.050	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
33	.508	.304	.131	.123	.115	.085	.081	.077	.052	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
34	.523	.317	.138	.129	.121	.088	.083	.079	.054	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
35	.538	.329	.144	.135	.127	.090	.085	.081	.056	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
36	.550	.344	.150	.142	.133	.092	.088	.083	.058	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
37	.563	.358	.156	.148	.140	.094	.090	.085	.060	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
38	.575	.373	.163	.154	.146	.096	.092	.088	.063	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
39	.588	.388	.169	.160	.152	.098	.094	.090	.065	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
40	.600	.402	.175	.167	.158	.100	.096	.092	.067	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000

TOTAL OBSERVATIONS 480

TABLE 4. 1.a. P(W < W\*) I CONSECUTIVE LAUNCH OPPORTUNITIES IN J PERIODS (W\* = 15 M/SEC).  
BASED ON MAXIMUM WIND SPEEDS IN THE 10-15 KM LAYER OVER CAPE KENNEDY, FLORIDA.  
PERIOD OF RECORD JANUARY 1956 - DECEMBER 1963.

CAPE KENNEDY, FLORIDA APRIL  
SPEEDS LESS THAN 015 MPS

P ( I SUCCESSSES IN J PERIODS )

	I																			
J	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
1	.048																			
2	.060	.035																		
3	.075	.044	.027																	
4	.088	.054	.031	.023																
5	.102	.060	.040	.027	.019															
6	.117	.067	.042	.038	.023	.015														
7	.131	.075	.044	.040	.035	.019	.010													
8	.146	.083	.048	.042	.038	.033	.015	.006												
9	.158	.092	.052	.044	.040	.035	.031	.010	.002											
10	.171	.098	.056	.046	.042	.038	.033	.029	.004	.000										
11	.185	.104	.060	.048	.044	.040	.035	.031	.023	.000	.000									
12	.200	.110	.065	.050	.046	.042	.038	.033	.025	.017	.000	.000								
13	.215	.117	.069	.052	.048	.044	.040	.035	.027	.019	.015	.000	.000							
14	.229	.123	.073	.054	.050	.046	.042	.038	.029	.021	.017	.013	.000	.000						
15	.244	.129	.077	.056	.052	.048	.044	.040	.031	.023	.019	.015	.010	.000	.000					
16	.258	.135	.081	.058	.054	.050	.046	.042	.033	.025	.021	.017	.013	.008	.000	.000				
17	.271	.144	.085	.060	.056	.052	.048	.044	.035	.027	.023	.019	.015	.010	.006	.000	.000			
18	.283	.150	.092	.063	.058	.054	.050	.046	.038	.029	.025	.021	.017	.013	.008	.004	.000	.000		
19	.298	.156	.098	.065	.060	.056	.052	.048	.040	.031	.027	.023	.019	.015	.010	.006	.002	.000	.000	
20	.313	.165	.104	.067	.063	.058	.054	.050	.042	.033	.029	.025	.021	.017	.013	.008	.004	.000	.000	.000
21	.329	.173	.113	.069	.065	.060	.056	.052	.044	.035	.031	.027	.023	.019	.015	.010	.006	.000	.000	.000
22	.346	.183	.121	.073	.067	.063	.058	.054	.046	.038	.033	.029	.025	.021	.017	.013	.008	.000	.000	.000
23	.363	.194	.129	.077	.071	.065	.060	.056	.048	.040	.035	.031	.027	.023	.019	.015	.010	.000	.000	.000
24	.377	.206	.138	.081	.075	.067	.063	.058	.050	.042	.038	.033	.029	.025	.021	.017	.013	.000	.000	.000
25	.392	.217	.148	.085	.079	.071	.065	.060	.052	.044	.040	.035	.031	.027	.023	.019	.015	.000	.000	.000
26	.406	.227	.158	.090	.083	.075	.067	.063	.054	.046	.042	.038	.033	.029	.025	.021	.017	.000	.000	.000
27	.421	.238	.169	.094	.088	.079	.071	.065	.056	.048	.044	.040	.035	.031	.027	.023	.019	.000	.000	.000
28	.435	.250	.179	.098	.092	.083	.075	.067	.058	.050	.046	.042	.038	.033	.029	.025	.021	.000	.000	.000
29	.450	.263	.194	.102	.096	.088	.079	.069	.060	.052	.048	.044	.040	.035	.031	.027	.023	.000	.000	.000
30	.465	.275	.208	.110	.100	.092	.083	.071	.063	.054	.050	.046	.042	.038	.033	.029	.025	.000	.000	.000
31	.479	.288	.223	.119	.106	.096	.088	.073	.065	.056	.052	.048	.044	.040	.035	.031	.027	.000	.000	.000
32	.494	.300	.235	.129	.113	.102	.092	.075	.067	.058	.054	.050	.046	.042	.038	.033	.029	.000	.000	.000
33	.508	.313	.248	.138	.121	.108	.098	.077	.069	.060	.056	.052	.048	.044	.040	.035	.031	.000	.000	.000
34	.523	.325	.260	.146	.127	.117	.104	.079	.071	.063	.058	.054	.050	.046	.042	.038	.033	.000	.000	.000
35	.538	.340	.273	.154	.133	.123	.113	.081	.073	.065	.060	.056	.052	.048	.044	.040	.035	.000	.000	.000
36	.550	.354	.288	.163	.140	.129	.119	.085	.075	.067	.063	.058	.054	.050	.046	.042	.038	.000	.000	.000
37	.563	.369	.302	.171	.146	.135	.125	.090	.077	.069	.065	.060	.056	.052	.048	.044	.040	.000	.000	.000
38	.575	.383	.317	.179	.152	.142	.131	.096	.079	.071	.067	.063	.058	.054	.050	.046	.042	.000	.000	.000
39	.588	.398	.331	.188	.158	.148	.138	.102	.081	.073	.069	.065	.060	.056	.052	.048	.044	.000	.000	.000
40	.600	.413	.346	.196	.165	.154	.144	.110	.083	.075	.071	.067	.063	.058	.054	.050	.046	.000	.000	.000

TOTAL OBSERVATIONS 480

TABLE 4. 1.b. P(W < W\*) i LAUNCH OPPORTUNITIES IN J PERIODS (W\* = 15 M/SEC).  
BASED ON MAXIMUM WIND SPEEDS IN THE 10-15 KM LAYER OVER CAPE KENNEDY, FLORIDA.  
PERIOD OF RECORD JANUARY 1956 - DECEMBER 1963.

CAPE KENNEDY, FLORIDA APP11

SPEEDS LESS THAN 20 MPS

P ( I CONSECUTIVE SUCCESSES IN J PERIODS )

	I																			
J	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
1	.096																			
2	.121	.077																		
3	.144	.096	.060																	
4	.167	.115	.075	.048																
5	.185	.133	.092	.054	.042															
6	.204	.152	.108	.063	.046	.038														
7	.223	.169	.125	.071	.052	.042	.033													
8	.242	.185	.142	.079	.058	.048	.038	.029												
9	.260	.202	.158	.088	.065	.054	.044	.031	.027											
10	.283	.219	.173	.096	.071	.060	.050	.033	.029	.025										
11	.306	.238	.188	.102	.077	.067	.056	.035	.031	.027	.023									
12	.329	.256	.204	.108	.083	.073	.063	.038	.033	.029	.025	.021								
13	.348	.275	.221	.115	.090	.079	.069	.040	.035	.031	.027	.023	.019							
14	.367	.294	.238	.121	.096	.085	.075	.042	.038	.033	.029	.025	.021	.017						
15	.385	.310	.254	.127	.102	.092	.081	.044	.040	.035	.031	.027	.023	.019	.015					
16	.402	.327	.271	.133	.108	.098	.088	.046	.042	.038	.033	.029	.025	.021	.017	.013				
17	.419	.344	.285	.140	.115	.104	.094	.048	.044	.040	.035	.031	.027	.023	.019	.015	.010			
18	.435	.360	.300	.146	.121	.110	.100	.050	.046	.042	.038	.033	.029	.025	.021	.017	.013	.008		
19	.450	.377	.315	.152	.127	.117	.106	.052	.048	.044	.040	.035	.031	.027	.023	.019	.015	.010	.006	
20	.465	.394	.327	.158	.133	.123	.113	.054	.050	.046	.042	.038	.033	.029	.025	.021	.017	.013	.008	.004
21	.479	.410	.340	.165	.140	.129	.119	.056	.052	.048	.044	.040	.035	.031	.027	.023	.019	.015	.010	.006
22	.494	.425	.354	.173	.146	.135	.125	.058	.054	.050	.046	.042	.038	.033	.029	.025	.021	.017	.013	.008
23	.508	.440	.369	.181	.154	.142	.131	.060	.056	.052	.048	.044	.040	.035	.031	.027	.023	.019	.015	.010
24	.523	.454	.383	.190	.163	.148	.138	.063	.058	.054	.050	.046	.042	.038	.033	.029	.025	.021	.017	.013
25	.538	.469	.398	.198	.171	.154	.144	.065	.060	.056	.052	.048	.044	.040	.035	.031	.027	.023	.019	.015
26	.554	.483	.413	.206	.179	.160	.150	.067	.063	.058	.054	.050	.046	.042	.038	.033	.029	.025	.021	.017
27	.571	.498	.427	.215	.188	.167	.156	.069	.065	.060	.056	.052	.048	.044	.040	.035	.031	.027	.023	.019
28	.588	.513	.442	.223	.196	.173	.163	.071	.067	.063	.058	.054	.050	.046	.042	.038	.033	.029	.025	.021
29	.604	.527	.456	.231	.204	.179	.169	.073	.069	.065	.060	.056	.052	.048	.044	.040	.035	.031	.027	.023
30	.621	.542	.471	.242	.213	.185	.175	.075	.071	.067	.063	.058	.054	.050	.046	.042	.038	.033	.029	.025
31	.638	.556	.485	.254	.223	.192	.181	.077	.073	.069	.065	.060	.056	.052	.048	.044	.040	.035	.031	.027
32	.654	.571	.500	.267	.233	.200	.188	.079	.075	.071	.067	.063	.058	.054	.050	.046	.042	.038	.033	.029
33	.671	.585	.515	.279	.244	.208	.196	.081	.077	.073	.069	.065	.060	.056	.052	.048	.044	.040	.035	.031
34	.685	.600	.529	.292	.254	.217	.204	.083	.079	.075	.071	.067	.063	.058	.054	.050	.046	.042	.038	.033
35	.700	.613	.544	.304	.265	.225	.213	.085	.081	.077	.073	.069	.065	.060	.056	.052	.048	.044	.040	.035
36	.715	.625	.556	.317	.275	.232	.221	.088	.083	.079	.075	.071	.067	.063	.058	.054	.050	.046	.042	.038
37	.729	.638	.569	.329	.285	.242	.229	.090	.085	.081	.077	.073	.069	.065	.060	.056	.052	.048	.044	.040
38	.744	.650	.581	.342	.296	.250	.238	.092	.088	.083	.079	.075	.071	.067	.063	.058	.054	.050	.046	.042
39	.758	.663	.594	.354	.306	.258	.246	.094	.090	.085	.081	.077	.073	.069	.065	.060	.056	.052	.048	.044
40	.773	.675	.606	.367	.317	.267	.254	.096	.092	.088	.083	.079	.075	.071	.067	.063	.058	.054	.050	.046

TOTAL OBSERVATIONS 480

TABLE 4. 2.a. P(W < W\*) I CONSECUTIVE LAUNCH OPPORTUNITIES IN J PERIODS (W\* = 20 M/SEC).

BASED ON MAXIMUM WIND SPEEDS IN THE 10-15 KM LAYER OVER CAPE KENNEDY, FLORIDA.

PERIOD OF RECORD JANUARY 1956 - DECEMBER 1963.

CAPE KENNEDY, FLORIDA APRIL  
SPEEDS LESS THAN 020 MPS

P ( I SUCCESSSES ( P. J PERIODS )

I

J	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
1	.096																			
2	.121	.077																		
3	.144	.098	.040																	
4	.167	.117	.077	.048																
5	.185	.140	.096	.054	.042															
6	.204	.156	.121	.063	.046	.038														
7	.223	.173	.140	.077	.052	.042	.033													
8	.242	.190	.156	.085	.065	.048	.038	.029												
9	.260	.208	.173	.092	.073	.058	.044	.031	.027											
10	.283	.225	.192	.098	.079	.067	.052	.033	.029	.025										
11	.306	.244	.208	.106	.085	.073	.058	.038	.031	.027	.023									
12	.329	.263	.227	.113	.094	.079	.065	.042	.033	.029	.025	.021								
13	.348	.285	.246	.119	.100	.088	.071	.046	.035	.031	.027	.023	.019							
14	.367	.302	.271	.125	.106	.094	.079	.050	.038	.033	.029	.025	.021	.017						
15	.385	.319	.290	.138	.113	.100	.085	.055	.040	.035	.031	.027	.023	.019	.015					
16	.402	.338	.306	.146	.125	.106	.092	.063	.042	.038	.033	.029	.025	.021	.017	.013				
17	.419	.354	.327	.154	.131	.119	.098	.069	.044	.040	.035	.031	.027	.023	.019	.015	.010			
18	.435	.371	.344	.169	.138	.125	.110	.075	.046	.042	.038	.033	.029	.025	.021	.017	.013	.008		
19	.450	.390	.360	.179	.148	.131	.117	.088	.048	.044	.040	.035	.031	.027	.023	.019	.015	.010	.006	
20	.465	.404	.381	.188	.156	.140	.123	.096	.054	.046	.042	.038	.033	.029	.025	.021	.017	.013	.008	.004
21	.475	.419	.396	.215	.169	.148	.129	.104	.058	.050	.044	.040	.035	.031	.027	.023	.019	.015	.010	.006
22	.494	.433	.410	.233	.185	.160	.135	.113	.063	.054	.046	.042	.038	.033	.029	.025	.021	.017	.013	.008
23	.508	.448	.425	.248	.206	.175	.142	.121	.067	.054	.048	.044	.040	.035	.031	.027	.023	.019	.015	.010
24	.523	.463	.440	.263	.221	.196	.150	.129	.071	.063	.050	.046	.042	.038	.033	.029	.025	.021	.017	.013
25	.538	.477	.454	.277	.235	.213	.165	.140	.075	.067	.052	.048	.044	.040	.035	.031	.027	.023	.019	.015
26	.554	.492	.469	.292	.250	.227	.179	.154	.079	.071	.054	.050	.046	.042	.038	.033	.029	.025	.021	.017
27	.571	.506	.483	.306	.265	.242	.190	.171	.090	.075	.056	.052	.048	.044	.040	.035	.031	.027	.023	.019
28	.588	.521	.498	.321	.279	.256	.202	.183	.104	.083	.058	.054	.050	.046	.042	.038	.033	.029	.025	.021
29	.604	.535	.513	.335	.294	.271	.215	.198	.119	.097	.065	.057	.052	.048	.044	.040	.035	.031	.027	.023
30	.621	.550	.527	.350	.308	.285	.227	.210	.133	.106	.071	.060	.054	.050	.046	.042	.038	.033	.029	.025
31	.638	.565	.542	.365	.323	.300	.240	.223	.146	.119	.083	.065	.058	.052	.048	.044	.040	.035	.031	.027
32	.654	.579	.556	.379	.338	.315	.252	.235	.158	.129	.096	.073	.063	.057	.050	.046	.042	.038	.033	.029
33	.671	.594	.573	.394	.352	.329	.265	.248	.171	.140	.106	.071	.060	.054	.048	.044	.040	.035	.031	.027
34	.685	.608	.588	.410	.367	.344	.277	.260	.183	.150	.115	.085	.077	.069	.058	.050	.046	.042	.038	.033
35	.700	.621	.602	.427	.383	.358	.290	.273	.196	.160	.123	.092	.081	.075	.067	.052	.048	.044	.040	.035
36	.715	.633	.615	.444	.400	.375	.302	.285	.208	.171	.137	.098	.085	.079	.073	.058	.050	.046	.042	.038
37	.729	.646	.627	.463	.421	.390	.317	.298	.221	.181	.140	.104	.090	.083	.077	.065	.054	.048	.044	.040
38	.744	.658	.640	.479	.438	.408	.329	.313	.233	.192	.148	.110	.094	.088	.081	.071	.060	.050	.046	.042
39	.758	.671	.652	.496	.454	.425	.346	.325	.248	.204	.158	.117	.098	.092	.085	.077	.065	.054	.048	.044
40	.773	.683	.665	.513	.471	.442	.358	.342	.260	.219	.171	.125	.102	.096	.090	.083	.069	.058	.050	.046

TOTAL OBSERVATIONS 480

TABLE 4. 2.b. P(W < W\*) I LAUNCH OPPORTUNITIES IN J PERIODS (W\* = 20 M/SEC).  
BASED ON MAXIMUM WIND SPEEDS IN THE 10-15 KM LAYER OVER CAPE KENNEDY, FLORIDA.  
PERIOD OF RECORD JANUARY 1956 - DECEMBER 1963.



CAPE KENNEDY, FLORIDA APRIL  
SPEEDS LESS THAN 025 MPS

PC ( I CONSECUTIVE SUCCESSES IN J PERIODS )

	I																			
J	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
1	.163																			
2	.200	.131																		
3	.233	.156	.113																	
4	.263	.181	.135	.092																
5	.290	.206	.158	.110	.077															
6	.315	.229	.181	.129	.094	.063														
7	.338	.252	.204	.148	.110	.075	.052													
8	.360	.275	.225	.167	.127	.088	.060	.046												
9	.381	.300	.246	.185	.144	.100	.069	.054	.040											
10	.402	.327	.267	.202	.160	.113	.077	.063	.046	.035										
11	.423	.352	.292	.219	.175	.125	.085	.071	.052	.040	.033									
12	.446	.375	.315	.238	.190	.135	.094	.079	.058	.044	.038	.031								
13	.469	.396	.338	.256	.204	.146	.102	.088	.065	.048	.042	.035	.027							
14	.490	.417	.358	.275	.219	.156	.110	.096	.071	.052	.046	.040	.031	.023						
15	.508	.440	.377	.294	.233	.167	.119	.104	.077	.056	.050	.044	.035	.027	.019					
16	.527	.460	.396	.310	.248	.177	.127	.113	.083	.060	.054	.048	.040	.031	.021	.017				
17	.544	.481	.415	.327	.263	.188	.135	.121	.090	.065	.058	.052	.044	.035	.023	.019	.015			
18	.560	.502	.431	.344	.275	.198	.144	.129	.096	.069	.063	.056	.048	.040	.025	.021	.017	.013		
19	.577	.523	.448	.363	.288	.208	.152	.138	.102	.073	.067	.060	.052	.044	.027	.023	.019	.015	.010	
20	.594	.542	.467	.381	.302	.219	.160	.146	.108	.077	.071	.065	.056	.048	.029	.025	.021	.017	.013	.008
21	.610	.560	.483	.402	.317	.231	.169	.154	.115	.081	.075	.069	.060	.052	.031	.027	.023	.019	.015	.010
22	.627	.579	.500	.421	.335	.244	.179	.163	.121	.085	.079	.073	.065	.056	.033	.029	.025	.021	.017	.013
23	.644	.598	.517	.440	.352	.260	.190	.173	.127	.090	.083	.077	.069	.060	.035	.031	.027	.023	.019	.015
24	.660	.617	.533	.456	.369	.277	.204	.183	.135	.094	.088	.081	.073	.065	.038	.033	.029	.025	.021	.017
25	.677	.633	.550	.473	.385	.294	.219	.198	.144	.100	.092	.085	.077	.069	.040	.035	.031	.027	.023	.019
26	.694	.650	.567	.490	.400	.310	.233	.213	.154	.106	.098	.090	.081	.073	.042	.038	.033	.029	.025	.021
27	.708	.667	.581	.506	.415	.327	.248	.227	.165	.115	.104	.096	.085	.077	.044	.040	.035	.031	.027	.023
28	.723	.683	.596	.523	.429	.342	.263	.242	.175	.123	.113	.102	.092	.081	.046	.042	.038	.033	.029	.025
29	.738	.700	.610	.538	.444	.356	.277	.256	.185	.131	.121	.108	.098	.088	.048	.044	.040	.035	.031	.027
30	.750	.717	.625	.552	.458	.371	.290	.271	.196	.140	.129	.115	.104	.094	.052	.046	.042	.038	.033	.029
31	.763	.733	.640	.567	.473	.385	.302	.285	.206	.148	.138	.121	.110	.100	.056	.050	.044	.040	.035	.031
32	.775	.750	.654	.581	.488	.400	.315	.298	.217	.156	.146	.127	.117	.106	.060	.054	.048	.042	.038	.033
33	.788	.767	.669	.598	.502	.415	.327	.310	.227	.165	.154	.133	.123	.113	.065	.058	.052	.046	.040	.035
34	.800	.781	.683	.613	.519	.429	.340	.323	.238	.173	.163	.140	.129	.119	.069	.063	.056	.050	.044	.038
35	.813	.794	.696	.627	.535	.446	.352	.335	.248	.181	.171	.146	.135	.125	.073	.067	.060	.054	.048	.040
36	.825	.806	.708	.640	.550	.463	.367	.348	.258	.190	.179	.152	.142	.131	.077	.071	.065	.058	.052	.042
37	.838	.817	.719	.652	.563	.479	.381	.363	.269	.198	.188	.158	.148	.138	.081	.075	.069	.063	.056	.044
38	.850	.831	.729	.665	.575	.494	.396	.377	.279	.206	.196	.165	.154	.144	.085	.079	.073	.067	.060	.046
39	.863	.844	.740	.675	.588	.510	.410	.392	.290	.214	.204	.171	.160	.150	.090	.083	.077	.071	.065	.048
40	.875	.856	.750	.685	.600	.525	.424	.406	.300	.223	.213	.177	.167	.156	.094	.088	.081	.075	.069	.050

TOTAL OBSERVATIONS 480

TABLE 4. 3.a. P(W < W\*) I CONSECUTIVE LAUNCH OPPORTUNITIES IN J PERIODS (W\* = 25 M/SEC).

\*BASED ON MAXIMUM WIND SPEEDS IN THE 10-15 KM LAYER OVER CAPE KENNEDY, FLORIDA.

PERIOD OF RECORD JANUARY 1956 - DECEMBER 1963.

CAPE KENNEDY, FLORIDA APRIL  
SPEEDS LESS THAN 025 MPS

P ( I SUCCESSES IN J PERIODS )

	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
1	.163																			
2	.230	.131																		
3	.233	.160	.113																	
4	.263	.192	.140	.092																
5	.290	.219	.169	.115	.077															
6	.315	.244	.194	.142	.098	.063														
7	.338	.269	.217	.163	.123	.079	.052													
8	.360	.294	.240	.181	.144	.100	.063	.046												
9	.381	.321	.267	.200	.163	.117	.077	.056	.040											
10	.402	.342	.296	.225	.181	.131	.090	.069	.048	.035										
11	.423	.363	.315	.256	.206	.148	.098	.081	.058	.040	.033									
12	.446	.383	.333	.273	.242	.171	.106	.090	.071	.038	.031									
13	.469	.404	.352	.290	.256	.208	.121	.098	.079	.057	.042	.035	.027							
14	.490	.429	.371	.306	.271	.225	.152	.113	.088	.070	.046	.040	.031	.023						
15	.508	.452	.396	.323	.285	.240	.165	.142	.102	.089	.050	.044	.035	.027	.019					
16	.527	.473	.419	.346	.300	.254	.179	.150	.131	.083	.054	.048	.040	.031	.021	.017				
17	.544	.494	.440	.365	.321	.269	.194	.160	.140	.115	.063	.052	.044	.035	.023	.019	.015			
18	.560	.515	.460	.383	.340	.288	.210	.171	.150	.125	.090	.058	.048	.040	.025	.021	.017	.013		
19	.577	.533	.481	.404	.360	.302	.229	.185	.160	.138	.100	.081	.052	.044	.027	.023	.019	.015	.010	
20	.594	.552	.500	.427	.381	.319	.244	.200	.177	.148	.113	.092	.069	.048	.029	.025	.021	.017	.013	.008
21	.610	.571	.519	.450	.400	.338	.260	.213	.190	.167	.125	.104	.077	.060	.031	.027	.023	.019	.015	.010
22	.627	.590	.538	.471	.421	.356	.277	.227	.202	.177	.148	.117	.088	.067	.040	.029	.025	.021	.017	.013
23	.644	.606	.558	.492	.438	.377	.294	.242	.217	.188	.160	.142	.100	.073	.046	.033	.027	.023	.019	.015
24	.660	.623	.575	.517	.454	.396	.315	.256	.231	.200	.173	.154	.127	.081	.052	.038	.029	.025	.021	.017
25	.677	.640	.592	.535	.479	.413	.338	.275	.246	.213	.185	.169	.140	.106	.060	.042	.031	.027	.023	.019
26	.694	.656	.608	.552	.498	.440	.354	.298	.265	.225	.198	.181	.154	.117	.085	.048	.033	.029	.025	.021
27	.708	.673	.625	.569	.515	.460	.379	.315	.285	.242	.210	.194	.169	.131	.096	.071	.038	.031	.027	.023
28	.723	.690	.642	.585	.531	.479	.396	.342	.302	.258	.227	.206	.181	.148	.110	.079	.058	.035	.029	.025
29	.738	.706	.658	.602	.548	.496	.413	.363	.329	.271	.244	.223	.194	.160	.127	.094	.063	.056	.033	.027
30	.750	.725	.675	.619	.565	.513	.427	.385	.350	.294	.256	.240	.210	.173	.140	.113	.071	.060	.044	.031
31	.763	.742	.694	.635	.583	.529	.442	.402	.377	.315	.275	.252	.227	.190	.152	.127	.083	.067	.058	.052
32	.775	.758	.710	.654	.602	.548	.458	.419	.394	.346	.294	.269	.240	.206	.169	.142	.096	.077	.060	.056
33	.788	.771	.729	.671	.623	.567	.475	.435	.410	.363	.327	.285	.254	.219	.185	.160	.106	.092	.069	.060
34	.800	.783	.742	.692	.644	.585	.492	.452	.427	.379	.342	.319	.273	.231	.198	.179	.121	.102	.081	.065
35	.813	.796	.754	.704	.671	.604	.508	.469	.444	.396	.356	.335	.306	.248	.210	.192	.138	.117	.090	.075
36	.825	.808	.767	.717	.688	.631	.525	.488	.460	.413	.371	.352	.323	.279	.227	.204	.148	.133	.102	.085
37	.838	.821	.779	.729	.704	.650	.548	.506	.477	.429	.385	.367	.342	.294	.258	.223	.158	.144	.117	.098
38	.850	.833	.792	.742	.719	.671	.567	.529	.494	.446	.400	.381	.356	.313	.273	.254	.177	.154	.127	.110
39	.863	.846	.804	.754	.731	.690	.590	.548	.515	.463	.415	.396	.371	.329	.290	.269	.208	.173	.138	.119
40	.875	.858	.817	.767	.744	.706	.610	.571	.531	.483	.429	.410	.385	.346	.304	.283	.223	.204	.156	.127

TOTAL OBSERVATIONS 480

TABLE 4.3.b. P(W < W\*) I LAUNCH OPPORTUNITIES IN J PERIODS (W\* = 25 M/SEC).  
BASED ON MAXIMUM WIND SPEEDS IN THE 10-15 KM LAYER OVER CAPE KENNEDY, FLORIDA.  
PERIOD OF RECORD JANUARY 1956 - DECEMBER 1963.

CAPE KENNEDY, FLORIDA APRIL  
SPEEDS LESS THAN 030 MPS

PC ( I CONSECUTIVE SUCCESSES IN J PERIODS )

	I																			
J	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
1	.235																			
2	.277	.200																		
3	.315	.231	.175																	
4	.350	.265	.204	.150																
5	.385	.294	.233	.177	.127															
6	.413	.323	.263	.204	.144	.115														
7	.438	.350	.290	.231	.160	.131	.102													
8	.463	.373	.317	.258	.177	.148	.115	.092												
9	.488	.392	.346	.283	.194	.165	.127	.102	.083											
10	.510	.413	.371	.308	.210	.181	.140	.113	.094	.075										
11	.533	.433	.394	.335	.225	.198	.152	.123	.104	.083	.069									
12	.554	.454	.415	.358	.242	.213	.165	.133	.115	.092	.075	.065								
13	.575	.477	.435	.379	.260	.229	.177	.144	.125	.100	.081	.071	.060							
14	.596	.496	.458	.398	.279	.248	.190	.154	.135	.108	.088	.077	.067	.054						
15	.617	.515	.481	.419	.293	.267	.202	.165	.146	.117	.094	.083	.073	.060	.048					
16	.638	.533	.500	.440	.310	.285	.215	.175	.156	.125	.100	.090	.079	.067	.054	.042				
17	.656	.552	.519	.460	.325	.302	.227	.185	.167	.133	.106	.096	.085	.073	.060	.048	.035			
18	.675	.569	.538	.479	.340	.317	.240	.196	.177	.142	.113	.102	.092	.079	.067	.054	.042	.029		
19	.692	.585	.554	.498	.356	.331	.252	.206	.188	.150	.119	.108	.098	.085	.073	.060	.048	.033	.025	
20	.708	.602	.571	.515	.373	.348	.265	.217	.198	.158	.125	.115	.104	.092	.079	.067	.054	.038	.029	.021
21	.725	.617	.588	.531	.390	.365	.279	.227	.207	.167	.131	.121	.110	.098	.085	.073	.060	.042	.033	.025
22	.740	.631	.604	.548	.406	.379	.296	.240	.219	.175	.138	.127	.117	.104	.092	.079	.067	.046	.038	.029
23	.754	.646	.621	.565	.423	.394	.313	.254	.231	.183	.144	.133	.123	.110	.098	.085	.073	.050	.042	.033
24	.769	.660	.638	.581	.440	.408	.329	.271	.246	.194	.150	.140	.129	.117	.104	.092	.079	.054	.046	.038
25	.783	.675	.654	.598	.456	.423	.346	.288	.263	.206	.158	.146	.135	.123	.110	.098	.085	.058	.050	.042
26	.798	.690	.671	.615	.473	.440	.363	.304	.279	.221	.169	.154	.142	.129	.117	.104	.092	.063	.054	.046
27	.813	.704	.685	.631	.490	.454	.379	.321	.296	.235	.181	.165	.150	.135	.123	.110	.098	.067	.058	.050
28	.825	.719	.700	.646	.506	.469	.394	.338	.313	.250	.194	.177	.160	.144	.129	.117	.104	.071	.063	.054
29	.838	.733	.715	.660	.523	.483	.408	.356	.329	.265	.206	.190	.173	.154	.135	.123	.110	.075	.067	.058
30	.850	.748	.729	.675	.540	.498	.423	.371	.348	.279	.219	.202	.185	.167	.144	.129	.117	.079	.071	.063
31	.863	.763	.744	.690	.556	.513	.438	.385	.367	.296	.231	.215	.194	.179	.154	.138	.123	.083	.075	.067
32	.875	.777	.758	.704	.573	.527	.452	.400	.381	.313	.246	.227	.210	.192	.165	.148	.131	.088	.079	.071
33	.885	.792	.773	.719	.590	.542	.467	.415	.396	.329	.260	.242	.223	.204	.175	.158	.142	.094	.083	.075
34	.896	.804	.788	.733	.606	.556	.481	.429	.410	.344	.275	.256	.238	.217	.185	.169	.152	.100	.090	.079
35	.906	.815	.800	.748	.623	.571	.496	.444	.425	.358	.290	.271	.252	.231	.196	.179	.163	.106	.096	.083
36	.917	.825	.813	.760	.640	.585	.513	.458	.440	.373	.304	.285	.267	.246	.208	.190	.173	.113	.102	.088
37	.927	.835	.823	.773	.654	.600	.529	.475	.454	.389	.319	.300	.281	.260	.221	.202	.183	.119	.108	.092
38	.938	.846	.833	.785	.669	.613	.544	.492	.471	.402	.333	.315	.296	.275	.233	.215	.196	.125	.115	.096
39	.946	.856	.844	.796	.683	.625	.556	.508	.488	.419	.348	.329	.310	.290	.246	.227	.208	.133	.121	.100
40	.952	.867	.854	.806	.698	.638	.569	.521	.504	.435	.363	.344	.325	.304	.258	.240	.221	.142	.129	.104

TOTAL OBSERVATIONS 480

TABLE .. 4.a. P(W < W\*) I CONSECUTIVE LAUNCH OPPORTUNITIES IN J PERIODS (W\* = 30 M/SEC).  
BASED ON MAXIMUM WIND SPEEDS IN THE 10-15 KM LAYER OVER CAPE KENNEDY, FLORIDA.  
PERIOD OF RECORD JANUARY 1956 - DECEMBER 1963.

CAPE KENNEDY, FLORIDA APRIL  
SPEEDS LESS THAN 030 MPS

P ( I SUCCESSES IN J PERIODS )

J	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
1	.235																			
2	.277	.200																		
3	.315	.240	.175																	
4	.350	.271	.217	.150																
5	.385	.300	.246	.192	.127															
6	.413	.335	.273	.221	.160	.115														
7	.438	.363	.313	.246	.181	.146	.102													
8	.463	.381	.344	.290	.202	.163	.129	.092												
9	.488	.402	.363	.323	.246	.181	.144	.115	.083											
10	.510	.429	.381	.342	.279	.221	.163	.129	.102	.075										
11	.533	.454	.404	.360	.296	.252	.200	.150	.115	.097	.069									
12	.554	.477	.431	.383	.313	.265	.231	.188	.135	.100	.079	.065								
13	.575	.496	.456	.413	.333	.277	.246	.219	.171	.121	.090	.073	.060							
14	.596	.515	.475	.440	.363	.294	.258	.235	.200	.154	.110	.083	.067	.054						
15	.617	.533	.494	.458	.392	.321	.273	.248	.217	.181	.144	.104	.075	.060	.048					
16	.638	.552	.513	.477	.413	.350	.294	.263	.227	.200	.171	.138	.096	.067	.054	.042				
17	.656	.571	.531	.496	.433	.371	.321	.283	.240	.210	.192	.165	.129	.085	.060	.048	.035			
18	.675	.588	.550	.515	.452	.394	.342	.308	.258	.223	.202	.185	.154	.119	.077	.054	.042	.029		
19	.692	.606	.567	.535	.471	.415	.365	.329	.279	.244	.213	.196	.173	.144	.110	.069	.048	.033	.025	
20	.708	.621	.588	.552	.492	.435	.385	.352	.298	.265	.231	.206	.183	.160	.135	.102	.060	.038	.029	.021
21	.725	.635	.604	.573	.510	.458	.406	.373	.319	.285	.250	.223	.194	.171	.148	.129	.094	.066	.033	.025
22	.740	.652	.621	.590	.535	.477	.431	.394	.338	.308	.269	.240	.210	.181	.156	.140	.123	.077	.040	.029
23	.754	.667	.640	.606	.554	.498	.448	.423	.356	.329	.290	.256	.227	.200	.165	.148	.131	.106	.071	.033
24	.769	.681	.656	.625	.575	.519	.465	.442	.388	.348	.313	.275	.244	.217	.183	.156	.140	.115	.100	.063
25	.783	.696	.671	.642	.596	.542	.481	.458	.404	.383	.333	.296	.263	.233	.198	.175	.148	.123	.108	.090
26	.798	.710	.685	.656	.615	.563	.502	.475	.421	.400	.373	.317	.283	.252	.213	.190	.167	.131	.117	.098
27	.813	.725	.700	.671	.629	.583	.521	.496	.438	.417	.392	.354	.306	.273	.229	.206	.181	.150	.125	.106
28	.825	.742	.715	.685	.644	.598	.544	.513	.458	.433	.410	.371	.344	.298	.248	.221	.200	.167	.142	.115
29	.838	.758	.729	.700	.658	.613	.563	.533	.475	.454	.427	.390	.363	.333	.275	.235	.215	.190	.156	.129
30	.850	.773	.746	.715	.673	.627	.579	.552	.496	.471	.448	.408	.381	.354	.310	.258	.229	.206	.179	.142
31	.863	.785	.763	.731	.690	.642	.596	.569	.515	.492	.465	.429	.402	.373	.335	.292	.250	.223	.194	.165
32	.875	.798	.779	.746	.706	.660	.613	.585	.531	.510	.485	.448	.421	.396	.356	.319	.281	.244	.208	.179
33	.885	.810	.792	.765	.721	.679	.631	.602	.548	.527	.504	.471	.438	.415	.381	.342	.307	.273	.227	.194
34	.896	.821	.804	.777	.742	.696	.650	.619	.565	.544	.521	.492	.458	.431	.400	.371	.331	.296	.254	.213
35	.906	.831	.815	.790	.754	.721	.667	.638	.579	.560	.538	.510	.477	.452	.417	.390	.367	.315	.275	.240
36	.917	.842	.825	.800	.767	.735	.694	.656	.594	.575	.554	.529	.494	.471	.438	.406	.385	.334	.294	.258
37	.927	.852	.835	.810	.779	.748	.715	.683	.608	.590	.569	.546	.513	.488	.456	.427	.402	.373	.335	.275
38	.938	.863	.846	.821	.792	.760	.729	.706	.633	.604	.583	.560	.529	.506	.473	.446	.423	.390	.354	.319
39	.946	.875	.856	.831	.804	.773	.744	.721	.658	.627	.598	.575	.544	.523	.492	.463	.442	.410	.371	.335
40	.952	.888	.867	.842	.817	.785	.758	.735	.675	.652	.619	.590	.558	.538	.508	.481	.458	.429	.392	.352

TOTAL OBSERVATIONS 480

TABLE 4. 4. b. P(W < W\*) I LAUNCH OPPORTUNITIES IN J PERIODS (W\* = 30 M/SEC).  
BASED ON MAXIMUM WIND SPEEDS IN THE 10-15 KM LAYER OVER CAPE KENNEDY, FLORIDA.  
PERIOD OF RECORD JANUARY 1956 - DECEMBER 1963.

CAPE KENNEDY, FLORIDA APRIL  
SPEEDS LESS THAN 035 MPS

PC ( 1 CONSECUTIVE SUCCESSES IN J PERIODS )

	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
1	.325																			
2	.383	.271																		
3	.431	.310	.240																	
4	.473	.350	.275	.210																
5	.513	.385	.310	.240	.188															
6	.542	.417	.346	.269	.213	.169														
7	.569	.446	.377	.298	.238	.190	.150													
8	.594	.473	.402	.327	.263	.210	.169	.131												
9	.621	.498	.429	.354	.288	.231	.188	.146	.117											
10	.644	.525	.452	.379	.313	.252	.206	.160	.129	.104										
11	.665	.552	.477	.404	.338	.273	.225	.175	.142	.115	.094									
12	.685	.579	.500	.429	.358	.294	.244	.190	.154	.125	.102	.085								
13	.706	.602	.523	.454	.383	.313	.263	.204	.167	.135	.110	.094	.077							
14	.725	.623	.546	.477	.406	.333	.281	.219	.179	.144	.119	.102	.085	.069						
15	.742	.644	.567	.500	.429	.354	.300	.233	.192	.156	.127	.110	.094	.077	.060					
16	.758	.665	.588	.523	.450	.373	.319	.250	.204	.167	.135	.119	.102	.085	.069	.052				
17	.775	.685	.608	.542	.471	.392	.338	.267	.219	.177	.144	.127	.110	.094	.077	.058	.046			
18	.790	.702	.629	.560	.492	.408	.354	.283	.233	.190	.152	.135	.119	.102	.085	.065	.052	.040		
19	.802	.719	.648	.579	.513	.425	.371	.300	.248	.207	.163	.144	.127	.110	.094	.071	.058	.046	.033	
20	.815	.733	.667	.596	.533	.444	.385	.317	.263	.214	.173	.154	.135	.119	.102	.077	.065	.052	.040	.027
21	.827	.746	.685	.613	.552	.463	.404	.333	.277	.227	.183	.165	.146	.127	.110	.083	.071	.058	.046	.031
22	.840	.758	.702	.629	.571	.479	.423	.352	.292	.240	.194	.175	.156	.135	.119	.090	.077	.065	.052	.035
23	.852	.771	.717	.646	.590	.496	.440	.373	.310	.252	.204	.185	.167	.144	.127	.096	.083	.071	.058	.040
24	.863	.783	.731	.663	.608	.513	.456	.390	.331	.269	.215	.196	.177	.152	.135	.102	.090	.077	.065	.044
25	.873	.796	.746	.677	.627	.529	.473	.406	.350	.288	.229	.206	.188	.160	.144	.108	.096	.083	.071	.048
26	.881	.808	.760	.692	.646	.549	.490	.423	.367	.304	.246	.221	.198	.169	.152	.115	.102	.090	.077	.052
27	.890	.821	.775	.706	.663	.563	.508	.440	.383	.321	.263	.238	.213	.177	.160	.121	.108	.096	.083	.056
28	.898	.833	.790	.719	.679	.579	.525	.456	.400	.335	.279	.254	.229	.190	.169	.127	.115	.102	.090	.060
29	.904	.846	.804	.731	.696	.596	.542	.475	.417	.350	.296	.271	.246	.204	.179	.133	.121	.108	.096	.065
30	.915	.858	.819	.744	.713	.613	.558	.492	.435	.365	.310	.288	.263	.219	.192	.142	.127	.115	.102	.069
31	.923	.871	.833	.756	.729	.629	.575	.508	.454	.381	.325	.304	.279	.233	.204	.152	.135	.121	.108	.073
32	.929	.883	.846	.771	.744	.646	.592	.525	.471	.398	.342	.319	.296	.248	.217	.163	.146	.129	.115	.077
33	.935	.892	.858	.783	.760	.663	.608	.542	.488	.415	.358	.335	.313	.263	.221	.173	.156	.140	.123	.081
34	.942	.900	.869	.796	.777	.681	.625	.558	.504	.431	.375	.352	.329	.277	.242	.183	.167	.150	.133	.088
35	.948	.909	.879	.806	.792	.700	.642	.575	.521	.444	.392	.369	.346	.294	.254	.194	.177	.160	.144	.096
36	.954	.917	.890	.817	.804	.719	.658	.594	.538	.464	.408	.385	.363	.308	.269	.204	.188	.171	.154	.104
37	.960	.925	.900	.827	.815	.735	.675	.613	.556	.481	.425	.402	.379	.323	.283	.217	.198	.181	.165	.113
38	.967	.933	.910	.838	.825	.750	.692	.629	.575	.500	.442	.419	.396	.338	.296	.229	.210	.192	.175	.121
39	.971	.942	.921	.848	.835	.765	.706	.646	.594	.519	.460	.435	.413	.354	.308	.242	.223	.204	.185	.129
40	.975	.950	.931	.858	.846	.779	.721	.660	.610	.538	.479	.454	.429	.369	.321	.254	.235	.217	.198	.138

TOTAL OBSERVATIONS 440

TABLE 4. 5.2. P.W < W0) 1 CONSECUTIVE LAUNCH OPPORTUNITIES IN J PERIODS (W0 = 30 M/SEC).  
BASED ON MAXIMUM WIND SPEEDS IN THE 10-15 KM LAYER OVER CAPE KENNEDY, FLORIDA.  
PERIOD OF RECORD JANUARY 1956 - DECEMBER 1963.

CAPE KENNEDY, FLORIDA APRIL  
SPEEDS LESS THAN 035 MPS

P ( I SUCCESSSES IN J PERIODS )

	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
1	.325																			
2	.383	.271																		
3	.431	.321	.240																	
4	.473	.367	.290	.210																
5	.513	.396	.331	.258	.198															
6	.542	.435	.358	.302	.241	.169														
7	.569	.467	.398	.329	.273	.208	.150													
8	.594	.494	.431	.369	.294	.250	.190	.131												
9	.621	.519	.453	.398	.333	.269	.231	.169	.117											
10	.644	.548	.492	.427	.363	.306	.250	.206	.154	.104										
11	.665	.573	.527	.450	.395	.331	.290	.221	.192	.140	.094									
12	.685	.594	.556	.485	.417	.367	.310	.258	.206	.173	.129	.085								
13	.706	.615	.577	.517	.452	.385	.331	.277	.244	.183	.163	.121	.077							
14	.725	.638	.598	.540	.483	.419	.365	.317	.263	.217	.173	.152	.113	.069						
15	.742	.654	.621	.565	.506	.452	.392	.333	.302	.233	.206	.160	.146	.104	.060					
16	.758	.677	.646	.588	.529	.479	.427	.354	.321	.269	.223	.192	.154	.140	.096	.052				
17	.775	.694	.667	.613	.55	.504	.456	.388	.340	.290	.254	.206	.185	.148	.133	.085	.046			
18	.790	.713	.685	.633	.579	.529	.481	.419	.369	.310	.275	.231	.198	.177	.142	.125	.077	.040		
19	.802	.727	.710	.652	.600	.560	.506	.446	.398	.340	.296	.257	.219	.188	.169	.133	.119	.069	.033	
20	.815	.742	.723	.683	.639	.581	.542	.471	.425	.371	.323	.269	.235	.206	.177	.158	.127	.113	.060	.027
21	.827	.754	.738	.702	.650	.600	.565	.508	.450	.400	.354	.292	.252	.223	.192	.167	.150	.121	.106	.050
22	.840	.767	.750	.721	.671	.631	.583	.525	.490	.423	.385	.319	.275	.240	.204	.179	.158	.142	.115	.098
23	.852	.779	.763	.735	.694	.652	.615	.556	.523	.458	.408	.350	.298	.267	.217	.192	.169	.150	.133	.106
24	.863	.794	.775	.748	.715	.675	.638	.583	.550	.492	.444	.371	.329	.288	.246	.204	.181	.158	.142	.123
25	.873	.806	.788	.760	.733	.694	.663	.604	.575	.523	.477	.406	.366	.321	.265	.233	.194	.169	.150	.131
26	.881	.821	.800	.773	.746	.717	.683	.625	.598	.544	.510	.442	.381	.340	.298	.254	.223	.181	.158	.140
27	.890	.833	.815	.785	.758	.731	.710	.644	.617	.571	.531	.477	.419	.373	.317	.288	.246	.210	.169	.148
28	.898	.846	.827	.800	.771	.744	.729	.671	.633	.590	.558	.496	.456	.410	.350	.306	.279	.235	.194	.158
29	.906	.858	.840	.813	.785	.756	.742	.698	.658	.608	.575	.525	.475	.448	.392	.338	.298	.269	.217	.183
30	.915	.871	.852	.825	.798	.771	.754	.713	.690	.635	.592	.542	.506	.465	.435	.379	.327	.290	.246	.210
31	.923	.881	.867	.838	.810	.783	.769	.725	.706	.673	.617	.558	.525	.494	.454	.427	.367	.319	.267	.238
32	.929	.892	.877	.854	.823	.796	.781	.740	.721	.694	.654	.583	.544	.510	.485	.446	.417	.358	.296	.258
33	.935	.900	.888	.867	.840	.808	.794	.752	.735	.710	.677	.621	.571	.527	.504	.477	.435	.410	.335	.288
34	.942	.908	.896	.879	.852	.825	.806	.765	.748	.727	.694	.646	.613	.552	.523	.496	.467	.429	.390	.327
35	.945	.917	.904	.890	.865	.838	.823	.777	.760	.740	.710	.665	.642	.585	.548	.517	.488	.458	.410	.381
36	.954	.925	.913	.900	.875	.850	.835	.794	.773	.752	.725	.669	.647	.621	.577	.542	.513	.477	.442	.420
37	.960	.933	.921	.910	.885	.863	.848	.806	.790	.765	.738	.694	.679	.648	.617	.567	.538	.504	.460	.431
38	.967	.942	.929	.919	.898	.875	.860	.819	.802	.781	.750	.708	.692	.665	.646	.606	.560	.529	.490	.448
39	.971	.952	.938	.927	.908	.888	.873	.831	.815	.794	.767	.723	.704	.679	.663	.640	.596	.554	.513	.477
40	.975	.958	.948	.935	.919	.898	.885	.844	.827	.806	.779	.742	.717	.694	.677	.658	.633	.588	.535	.500
TOTAL OBSERVATIONS	480																			

TABLE 4. 5. b. P(N < M\*) I LAUNCH OPPORTUNITIES IN J PERIODS (M\* = 35 M/SEC).  
BASED ON MAXIMUM WIND SPEEDS IN THE 10-15 KM LAYER OVER CAPE KENNEDY, FLORIDA.  
PERIOD OF RECORD JANUARY 1956 - DECEMBER 1963.

CAPE KENNEDY, FLORIDA APRIL  
SPEEDS LESS THAN 040 MPS

PC ( I CONSECUTIVE SUCCESSES IN J PERIODS )

J	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
1	.413																			
2	.475	.354																		
3	.531	.400	.315																	
4	.573	.446	.356	.281																
5	.608	.485	.398	.317	.254															
6	.640	.515	.438	.352	.283	.231														
7	.671	.544	.473	.388	.313	.260	.204													
8	.700	.573	.506	.421	.342	.290	.233	.177												
9	.721	.604	.535	.456	.371	.319	.263	.198	.156											
10	.742	.631	.567	.488	.404	.348	.292	.219	.175	.138										
11	.763	.652	.598	.517	.435	.381	.321	.240	.194	.154	.121									
12	.783	.673	.625	.546	.465	.415	.354	.260	.213	.171	.133	.108								
13	.798	.694	.648	.575	.490	.448	.388	.283	.231	.188	.146	.119	.098							
14	.813	.713	.671	.602	.515	.477	.425	.306	.252	.204	.158	.129	.108	.090						
15	.827	.729	.692	.627	.540	.502	.458	.333	.273	.223	.171	.140	.119	.100	.079					
16	.840	.746	.713	.650	.563	.527	.488	.360	.298	.242	.185	.150	.129	.110	.088	.071				
17	.852	.763	.731	.673	.581	.552	.513	.385	.323	.265	.200	.163	.140	.121	.096	.077	.065			
18	.863	.777	.750	.696	.600	.573	.538	.408	.348	.288	.219	.175	.152	.131	.104	.083	.071	.058		
19	.873	.792	.769	.719	.619	.592	.560	.429	.371	.310	.238	.192	.165	.144	.113	.090	.077	.065	.052	
20	.883	.804	.785	.740	.638	.610	.581	.448	.394	.333	.256	.208	.181	.156	.123	.096	.083	.071	.058	.046
21	.894	.817	.800	.760	.656	.629	.600	.469	.413	.354	.275	.225	.198	.173	.133	.104	.090	.077	.065	.052
22	.902	.829	.813	.779	.675	.648	.619	.488	.433	.373	.294	.242	.215	.190	.148	.113	.096	.083	.071	.058
23	.910	.842	.825	.796	.694	.667	.638	.504	.454	.394	.308	.258	.231	.206	.163	.125	.102	.090	.077	.065
24	.919	.852	.838	.810	.713	.685	.656	.521	.473	.415	.325	.273	.248	.223	.177	.138	.113	.096	.083	.071
25	.925	.863	.848	.825	.729	.704	.675	.538	.490	.435	.342	.288	.263	.240	.192	.150	.123	.106	.090	.077
26	.931	.873	.858	.838	.746	.723	.694	.554	.506	.454	.358	.302	.279	.254	.206	.163	.133	.117	.100	.083
27	.938	.881	.869	.850	.760	.740	.715	.571	.523	.473	.375	.317	.294	.271	.221	.175	.144	.127	.110	.094
28	.944	.890	.879	.860	.775	.754	.733	.590	.540	.492	.392	.331	.308	.288	.238	.188	.154	.138	.121	.104
29	.950	.898	.888	.871	.790	.769	.748	.608	.558	.510	.408	.346	.323	.302	.254	.202	.165	.148	.131	.115
30	.956	.906	.896	.881	.802	.783	.763	.625	.579	.531	.425	.360	.338	.317	.271	.217	.175	.158	.142	.125
31	.963	.915	.904	.890	.815	.798	.777	.642	.598	.554	.444	.375	.352	.331	.285	.231	.185	.169	.152	.135
32	.969	.921	.913	.898	.827	.810	.792	.658	.615	.577	.465	.392	.367	.346	.300	.246	.196	.179	.163	.146
33	.975	.927	.919	.906	.840	.823	.806	.675	.631	.598	.485	.410	.383	.360	.315	.260	.206	.190	.173	.156
34	.981	.933	.925	.913	.852	.838	.819	.692	.648	.617	.506	.429	.402	.377	.329	.275	.217	.200	.183	.167
35	.985	.940	.931	.919	.863	.850	.833	.708	.665	.635	.527	.448	.421	.396	.346	.290	.227	.210	.194	.177
36	.990	.946	.938	.925	.873	.860	.848	.727	.681	.654	.546	.467	.440	.415	.365	.306	.238	.221	.204	.188
37	.994	.952	.944	.931	.883	.871	.858	.746	.700	.673	.565	.485	.458	.433	.385	.325	.250	.231	.215	.198
38	.996	.958	.950	.938	.894	.881	.869	.765	.719	.692	.583	.502	.477	.452	.404	.346	.265	.244	.225	.208
39	.998	.965	.956	.944	.904	.892	.879	.781	.738	.708	.602	.519	.496	.471	.423	.367	.281	.258	.238	.219
40	1.00	.969	.963	.950	.915	.902	.890	.794	.756	.725	.621	.535	.513	.490	.442	.385	.298	.275	.252	.231

TOTAL OBSERVATIONS 480

TABLE 4. 6.a. P(W < W\*) I CONSECUTIVE LAUNCH OPPORTUNITIES IN J PERIODS (W\* = 40 M/SEC).  
BASED ON MAXIMUM WIND SPEEDS IN THE 10-15 KM LAYER OVER CAPE KENNEDY, FLORIDA.  
PERIOD OF RECORD JANUARY 1956 - DECEMBER 1963.

CAPE KENNEDY, FLORIDA APRIL  
SPEEDS LESS THAN 040 MPS

P ( I SUCCESSES IN J PERIODS )

J	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
1	.413																			
2	.475	.354																		
3	.531	.408	.315																	
4	.573	.469	.365	.281																
5	.608	.513	.425	.327	.254															
6	.640	.550	.469	.388	.296	.231														
7	.671	.581	.506	.433	.354	.273	.204													
8	.700	.615	.540	.471	.400	.331	.248	.177												
9	.721	.646	.579	.506	.433	.379	.308	.217	.156											
10	.742	.669	.613	.552	.465	.410	.360	.273	.196	.138										
11	.763	.688	.635	.590	.515	.440	.392	.327	.248	.177	.121									
12	.783	.706	.656	.619	.550	.490	.421	.358	.302	.225	.158	.108								
13	.798	.727	.675	.648	.575	.527	.473	.385	.333	.277	.202	.146	.098							
14	.813	.746	.694	.667	.608	.554	.513	.438	.360	.308	.250	.188	.138	.090						
15	.827	.763	.713	.685	.629	.588	.544	.479	.415	.333	.277	.235	.177	.131	.079					
16	.840	.781	.731	.702	.648	.613	.575	.517	.458	.388	.298	.260	.225	.169	.123	.071				
17	.852	.796	.754	.719	.663	.638	.598	.548	.496	.438	.348	.281	.248	.215	.156	.115	.065			
18	.863	.813	.771	.742	.677	.652	.629	.569	.531	.475	.402	.327	.267	.238	.198	.146	.108	.058		
19	.873	.825	.792	.756	.700	.667	.646	.602	.554	.515	.440	.381	.308	.256	.219	.185	.138	.102	.052	
20	.883	.838	.806	.777	.715	.690	.660	.621	.590	.542	.483	.419	.358	.296	.235	.204	.175	.129	.096	.046
21	.894	.848	.823	.790	.735	.706	.685	.638	.608	.579	.519	.463	.392	.344	.271	.221	.192	.165	.121	.090
22	.902	.860	.838	.804	.748	.727	.704	.665	.627	.598	.560	.502	.435	.375	.315	.256	.208	.179	.150	.115
23	.910	.869	.850	.819	.763	.740	.725	.685	.654	.619	.579	.548	.477	.421	.342	.300	.244	.194	.160	.142
24	.919	.877	.858	.833	.777	.754	.738	.708	.675	.646	.602	.569	.523	.467	.388	.325	.288	.227	.175	.150
25	.925	.888	.867	.844	.792	.769	.752	.723	.698	.667	.629	.596	.544	.513	.433	.373	.313	.271	.206	.163
26	.931	.894	.879	.854	.804	.781	.767	.738	.715	.690	.650	.623	.575	.531	.477	.423	.363	.296	.250	.190
27	.938	.900	.885	.871	.817	.794	.779	.752	.729	.708	.673	.642	.604	.567	.494	.467	.417	.348	.275	.231
28	.944	.906	.892	.879	.838	.806	.792	.765	.746	.721	.696	.663	.621	.598	.531	.483	.460	.406	.329	.256
29	.950	.913	.898	.888	.850	.827	.804	.777	.758	.738	.710	.690	.640	.613	.565	.523	.477	.452	.394	.308
30	.956	.919	.904	.896	.863	.840	.825	.790	.771	.752	.727	.706	.669	.629	.579	.558	.519	.471	.444	.375
31	.963	.925	.910	.902	.873	.854	.838	.810	.783	.765	.744	.723	.688	.660	.594	.573	.556	.515	.465	.429
32	.969	.931	.917	.908	.881	.865	.854	.823	.804	.777	.758	.740	.704	.681	.625	.588	.571	.554	.510	.454
33	.975	.938	.923	.915	.890	.873	.865	.842	.817	.798	.772	.754	.721	.698	.646	.619	.585	.569	.552	.504
34	.981	.944	.929	.921	.898	.881	.873	.854	.835	.810	.794	.771	.735	.715	.663	.640	.617	.583	.567	.530
35	.985	.952	.935	.927	.906	.890	.881	.865	.848	.829	.806	.792	.754	.729	.677	.658	.638	.615	.581	.565
36	.990	.958	.944	.933	.915	.898	.890	.875	.858	.842	.825	.804	.775	.750	.690	.673	.658	.635	.613	.579
37	.994	.965	.950	.942	.923	.906	.898	.885	.869	.852	.838	.823	.788	.771	.710	.685	.673	.658	.633	.610
38	.996	.973	.956	.948	.933	.915	.906	.894	.881	.863	.850	.835	.806	.783	.731	.706	.685	.673	.658	.631
39	.998	.977	.965	.954	.942	.925	.915	.902	.892	.875	.860	.848	.819	.802	.746	.725	.706	.685	.673	.658
40	1.00	.981	.969	.963	.950	.933	.925	.910	.902	.885	.873	.858	.831	.815	.767	.740	.723	.706	.685	.673

TOTAL OBSERVATIONS 480

TABLE 4. 6.b. P(W < W\*) I LAUNCH OPPORTUNITIES IN J PERIODS (W\* = 40 M/SEC).  
BASED ON MAXIMUM WIND SPEEDS IN THE 10-15 KM LAYER OVER CAPE KENNEDY, FLORIDA.  
PERIOD OF RECORD JANUARY 1956 - DECEMBER 1963.



CAPE KENNEDY, FLORIDA APRIL  
SPEEDS LESS THAN 045 MPS

PC ( I CONSECUTIVE SUCCESSES IN J PERIODS )

J	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
1	.529																			
2	.610	.454																		
3	.669	.508	.408																	
4	.715	.565	.454	.371																
5	.750	.608	.500	.413	.338															
6	.781	.642	.544	.454	.369	.313														
7	.804	.669	.581	.494	.400	.340	.290													
8	.825	.692	.613	.533	.431	.367	.317	.265												
9	.844	.710	.644	.571	.463	.394	.344	.290	.242											
10	.863	.727	.671	.604	.496	.421	.371	.315	.265	.223										
11	.881	.744	.692	.635	.529	.450	.398	.340	.288	.246	.204									
12	.898	.760	.710	.660	.558	.481	.427	.365	.310	.269	.227	.185								
13	.910	.777	.727	.683	.583	.510	.458	.392	.333	.292	.250	.206	.169							
14	.919	.790	.744	.700	.606	.535	.492	.421	.358	.315	.273	.227	.188	.154						
15	.927	.802	.760	.717	.625	.558	.521	.452	.385	.340	.296	.248	.206	.173	.142					
16	.935	.815	.775	.733	.644	.577	.546	.483	.415	.367	.321	.269	.225	.192	.160	.129				
17	.944	.825	.790	.750	.663	.594	.567	.510	.444	.396	.348	.292	.244	.210	.179	.146	.117			
18	.950	.835	.804	.767	.681	.610	.585	.533	.473	.425	.377	.317	.265	.229	.198	.163	.131	.106		
19	.956	.846	.817	.783	.700	.627	.602	.554	.496	.454	.406	.344	.288	.250	.217	.179	.146	.121	.096	
20	.960	.856	.829	.800	.719	.644	.619	.573	.519	.481	.435	.371	.313	.273	.238	.196	.160	.135	.110	.085
21	.965	.865	.842	.815	.738	.660	.635	.590	.540	.504	.463	.398	.338	.298	.260	.215	.175	.150	.125	.098
22	.969	.873	.852	.829	.754	.677	.652	.606	.558	.527	.490	.423	.363	.323	.285	.235	.192	.165	.140	.110
23	.973	.881	.863	.844	.769	.694	.669	.623	.575	.548	.513	.448	.385	.348	.310	.258	.210	.181	.154	.123
24	.977	.888	.873	.856	.781	.710	.685	.640	.592	.567	.535	.473	.408	.371	.335	.281	.231	.200	.171	.135
25	.981	.894	.881	.869	.794	.725	.702	.656	.608	.583	.556	.494	.431	.394	.358	.304	.252	.221	.190	.150
26	.985	.900	.890	.877	.806	.738	.719	.673	.625	.600	.575	.515	.454	.417	.381	.325	.273	.242	.210	.167
27	.988	.906	.898	.885	.819	.750	.733	.692	.642	.617	.592	.535	.475	.440	.404	.346	.294	.263	.231	.185
28	.990	.913	.904	.894	.831	.763	.746	.708	.660	.633	.608	.554	.496	.463	.427	.367	.315	.283	.252	.204
29	.992	.919	.910	.902	.844	.775	.758	.725	.679	.652	.625	.571	.517	.483	.450	.388	.335	.304	.273	.223
30	.994	.925	.917	.908	.856	.788	.771	.740	.696	.671	.644	.588	.535	.504	.473	.408	.356	.325	.294	.242
31	.996	.931	.923	.915	.869	.800	.783	.754	.713	.690	.663	.606	.554	.525	.494	.429	.377	.346	.315	.260
32	.998	.938	.929	.921	.879	.813	.796	.769	.727	.706	.681	.625	.575	.544	.515	.450	.398	.367	.335	.279
33	1.00	.944	.935	.927	.890	.825	.808	.783	.742	.723	.700	.644	.596	.565	.535	.471	.419	.388	.356	.298
34	1.00	.950	.942	.933	.900	.840	.821	.798	.756	.738	.717	.663	.617	.585	.556	.492	.440	.408	.377	.317
35	1.00	.956	.948	.940	.908	.852	.835	.813	.771	.752	.733	.681	.638	.606	.577	.515	.460	.429	.398	.335
36	1.00	.963	.954	.946	.917	.863	.850	.829	.785	.767	.748	.698	.658	.627	.598	.535	.483	.450	.419	.354
37	1.00	.969	.960	.952	.925	.873	.860	.846	.802	.781	.763	.715	.679	.648	.619	.556	.506	.473	.440	.373
38	1.00	.975	.967	.958	.933	.883	.871	.858	.819	.796	.777	.729	.698	.669	.640	.577	.529	.496	.463	.392
39	1.00	.981	.973	.965	.942	.894	.881	.869	.833	.810	.792	.744	.717	.690	.660	.598	.550	.521	.485	.413
40	1.00	.985	.979	.971	.950	.904	.892	.879	.846	.823	.806	.758	.733	.708	.681	.619	.571	.544	.510	.433

TOTAL OBSERVATIONS 480

TABLE 4. 7. a. P(W < W\*) I CONSECUTIVE LAUNCH OPPORTUNITIES IN J PERIODS (W\* = 45 M/SEC),  
BASED ON MAXIMUM WIND SPEEDS IN THE 10-15 KM LAYER OVER CAPE KENNEDY, FLORIDA.  
PERIOD OF RECORD JANUARY 1956 - DECEMBER 1963.

CAPF KENNEDY, FLORIDA APP11  
SPEEDS LESS THAN 045 MPS

P ( I SUCCESSES IN J PERIODS )

J	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
1	.529																			
2	.610	.454																		
3	.669	.533	.408																	
4	.715	.596	.483	.371																
5	.750	.640	.550	.450	.338															
6	.781	.671	.600	.523	.408	.313														
7	.804	.698	.640	.577	.483	.377	.290													
8	.825	.719	.669	.621	.544	.454	.352	.265												
9	.844	.735	.698	.646	.592	.521	.427	.327	.242											
10	.863	.750	.721	.675	.617	.573	.496	.402	.302	.223										
11	.881	.765	.738	.700	.644	.600	.550	.475	.375	.283	.204									
12	.898	.779	.754	.719	.671	.625	.579	.533	.452	.350	.269	.185								
13	.910	.792	.771	.740	.696	.646	.606	.563	.517	.425	.335	.252	.169							
14	.919	.806	.785	.758	.723	.667	.627	.592	.546	.492	.415	.317	.238	.154						
15	.927	.819	.798	.775	.748	.692	.648	.610	.579	.521	.483	.398	.304	.223	.142					
16	.935	.831	.808	.788	.769	.721	.671	.631	.598	.558	.510	.471	.385	.290	.210	.129				
17	.944	.844	.819	.798	.781	.748	.700	.654	.617	.579	.548	.498	.458	.375	.275	.196	.117			
18	.950	.858	.829	.808	.792	.765	.731	.685	.635	.600	.571	.533	.488	.448	.363	.260	.179	.106		
19	.956	.869	.842	.819	.802	.779	.748	.721	.665	.617	.596	.556	.523	.477	.440	.348	.242	.167	.096	
20	.960	.881	.850	.833	.813	.792	.765	.740	.704	.640	.613	.583	.550	.510	.469	.429	.331	.227	.154	.085
21	.965	.890	.863	.844	.827	.804	.777	.758	.725	.679	.633	.602	.577	.540	.500	.460	.417	.317	.213	.140
22	.969	.896	.873	.858	.838	.821	.790	.771	.746	.702	.673	.623	.598	.569	.525	.492	.450	.408	.300	.196
23	.973	.902	.879	.871	.852	.831	.806	.783	.758	.725	.698	.663	.617	.592	.554	.515	.481	.444	.396	.281
24	.977	.908	.885	.877	.869	.844	.817	.800	.771	.738	.723	.692	.652	.610	.579	.544	.502	.475	.431	.381
25	.981	.915	.892	.883	.875	.863	.829	.810	.788	.750	.735	.721	.681	.644	.598	.571	.531	.494	.460	.419
26	.985	.921	.898	.890	.881	.871	.848	.823	.800	.767	.748	.733	.713	.675	.631	.588	.560	.521	.477	.448
27	.988	.929	.904	.896	.888	.877	.860	.842	.813	.779	.765	.746	.725	.708	.667	.619	.575	.550	.504	.467
28	.990	.935	.913	.902	.894	.883	.869	.852	.833	.794	.777	.763	.738	.723	.702	.656	.602	.565	.533	.496
29	.992	.942	.919	.910	.900	.890	.877	.860	.844	.817	.792	.775	.754	.735	.719	.698	.642	.585	.548	.527
30	.994	.948	.925	.917	.908	.896	.885	.869	.854	.829	.815	.790	.767	.752	.731	.717	.690	.625	.567	.544
31	.996	.952	.933	.923	.915	.904	.894	.877	.863	.842	.827	.813	.781	.765	.748	.729	.713	.675	.608	.560
32	.998	.956	.940	.929	.921	.913	.900	.888	.871	.850	.842	.825	.804	.779	.760	.746	.725	.702	.658	.604
33	1.00	.960	.946	.935	.927	.919	.908	.898	.879	.858	.850	.842	.817	.802	.775	.758	.742	.717	.690	.652
34	1.00	.967	.952	.942	.933	.925	.915	.906	.892	.867	.858	.850	.835	.815	.798	.773	.754	.735	.706	.683
35	1.00	.971	.960	.948	.940	.931	.921	.913	.904	.875	.867	.858	.846	.833	.810	.796	.769	.750	.727	.698
36	1.00	.975	.967	.956	.946	.938	.927	.919	.910	.890	.875	.867	.856	.844	.829	.808	.792	.767	.744	.717
37	1.00	.979	.973	.963	.954	.944	.933	.925	.917	.902	.883	.875	.867	.854	.840	.827	.804	.790	.765	.729
38	1.00	.983	.977	.971	.960	.952	.940	.931	.923	.913	.894	.883	.875	.867	.850	.838	.823	.802	.788	.748
39	1.00	.988	.981	.975	.969	.958	.948	.938	.929	.921	.902	.892	.883	.875	.865	.848	.833	.821	.800	.773
40	1.00	.990	.988	.979	.973	.967	.954	.946	.935	.927	.913	.900	.892	.883	.875	.863	.844	.831	.819	.790

TOTAL OBSERVATIONS 480

TABLE 4. 7.b. P(W < W\*) I LAUNCH OPPORTUNITIES IN J PERIODS (W\* = .45 M/SEC).  
BASED ON MAXIMUM WIND SPEEDS IN THE 10-15 KM LAYER OVER CAPE KENNEDY, FLORIDA.  
PERIOD OF RECORD JANUARY 1956 - DECEMBER 1963.

CAPE KENNEDY, FLORIDA APRIL  
SPEEDS LESS THAN 050 MPS

PC ( 1 CONSECUTIVE SUCCESSES IN J PERIODS )

	I																			
J	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
1	.652																			
2	.727	.581																		
3	.775	.642	.527																	
4	.810	.704	.581	.479																
5	.838	.746	.638	.517	.448															
6	.863	.779	.694	.556	.481	.421														
7	.881	.806	.729	.596	.517	.450	.396													
8	.898	.829	.760	.635	.552	.481	.425	.369												
9	.913	.850	.785	.663	.588	.513	.456	.396	.344											
10	.925	.867	.808	.688	.623	.544	.488	.425	.371	.321										
11	.933	.885	.829	.710	.646	.575	.519	.454	.400	.344	.302									
12	.942	.898	.850	.731	.667	.606	.550	.483	.429	.369	.325	.283								
13	.950	.910	.865	.752	.685	.629	.581	.513	.458	.394	.350	.306	.265							
14	.956	.921	.877	.769	.704	.650	.615	.542	.488	.419	.375	.331	.285	.250						
15	.963	.929	.890	.783	.721	.669	.638	.573	.517	.444	.400	.356	.308	.269	.238					
16	.967	.935	.900	.796	.738	.685	.658	.604	.548	.469	.425	.381	.331	.290	.256	.225				
17	.969	.942	.908	.808	.752	.702	.675	.627	.579	.494	.450	.406	.354	.310	.277	.244	.210			
18	.971	.946	.917	.821	.765	.719	.692	.646	.610	.523	.477	.431	.377	.331	.298	.265	.229	.196		
19	.973	.950	.923	.833	.777	.735	.708	.663	.631	.550	.504	.458	.400	.352	.319	.285	.250	.213	.183	
20	.975	.954	.929	.846	.790	.750	.725	.679	.650	.575	.531	.485	.425	.373	.340	.306	.271	.231	.200	.171
21	.977	.958	.935	.858	.802	.765	.742	.696	.667	.594	.556	.513	.450	.396	.360	.327	.292	.250	.219	.185
22	.979	.963	.942	.871	.815	.779	.756	.713	.683	.610	.581	.538	.475	.419	.383	.348	.313	.269	.238	.202
23	.981	.967	.948	.881	.827	.794	.771	.729	.700	.625	.600	.563	.498	.442	.406	.371	.333	.288	.256	.219
24	.983	.971	.954	.892	.840	.808	.785	.744	.717	.640	.617	.588	.521	.463	.429	.394	.356	.306	.275	.235
25	.985	.975	.958	.902	.850	.821	.800	.758	.733	.654	.631	.606	.544	.483	.450	.417	.379	.327	.294	.252
26	.988	.979	.963	.910	.860	.831	.815	.773	.748	.669	.646	.623	.567	.504	.471	.438	.402	.348	.315	.269
27	.990	.983	.967	.919	.871	.842	.825	.790	.763	.681	.660	.638	.583	.525	.492	.458	.423	.369	.335	.288
28	.992	.988	.971	.927	.881	.852	.835	.802	.779	.694	.673	.652	.600	.546	.513	.479	.444	.390	.356	.306
29	.994	.990	.975	.933	.892	.863	.846	.813	.794	.708	.685	.665	.615	.563	.533	.500	.465	.410	.377	.325
30	.996	.992	.979	.940	.902	.873	.856	.823	.806	.723	.700	.677	.627	.579	.554	.521	.485	.431	.398	.344
31	.998	.994	.983	.946	.910	.883	.867	.833	.817	.738	.715	.692	.640	.594	.571	.542	.506	.452	.419	.363
32	1.00	.996	.988	.952	.919	.894	.877	.844	.827	.750	.729	.706	.654	.608	.588	.563	.527	.473	.440	.381
33	1.00	.998	.992	.958	.927	.904	.888	.854	.838	.763	.744	.721	.669	.625	.602	.579	.548	.494	.460	.400
34	1.00	1.00	.996	.965	.935	.917	.898	.865	.848	.775	.756	.735	.683	.642	.619	.596	.571	.515	.481	.419
35	1.00	1.00	.998	.971	.942	.927	.910	.875	.858	.788	.769	.750	.698	.658	.635	.613	.588	.538	.502	.438
36	1.00	1.00	1.00	.977	.948	.935	.923	.888	.869	.800	.781	.763	.713	.675	.652	.629	.606	.560	.525	.456
37	1.00	1.00	1.00	.983	.954	.944	.931	.900	.881	.813	.794	.775	.727	.692	.669	.646	.623	.579	.548	.477
38	1.00	1.00	1.00	.990	.960	.952	.940	.910	.894	.827	.806	.788	.740	.708	.685	.663	.640	.598	.573	.498
39	1.00	1.00	1.00	.994	.967	.958	.948	.919	.904	.842	.821	.800	.752	.725	.702	.679	.656	.615	.592	.521
40	1.00	1.00	1.00	.998	.973	.965	.956	.927	.915	.854	.835	.815	.765	.740	.719	.696	.673	.631	.610	.544
TOTAL OBSERVATIONS 480																				

TABLE 4. & a. P(W < W\*) I CONSECUTIVE LAUNCH OPPORTUNITIES IN J PERIODS (W\* = 50 M/SEC).  
BASED ON MAXIMUM WIND SPEEDS IN THE 10-15 KM LAYER OVER CAPE KENNEDY, FLORIDA.  
PERIOD OF RECORD JANUARY 1956 - DECEMBER 1963.

CAPE KENNEDY, FLORIDA APRIL  
SPEEDS LESS THAN 050 MPS

P ( I SUCCESSES IN J PERIODS )

	I																			
J	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
1	.652																			
2	.727	.581																		
3	.775	.671	.527																	
4	.810	.729	.627	.479																
5	.838	.775	.683	.583	.448															
6	.863	.802	.735	.640	.556	.421														
7	.881	.829	.769	.690	.610	.533	.396													
8	.898	.850	.798	.725	.660	.590	.513	.369												
9	.913	.867	.823	.763	.690	.640	.569	.494	.344											
10	.925	.883	.842	.792	.729	.667	.619	.552	.477	.321										
11	.933	.898	.860	.813	.758	.713	.640	.604	.525	.456	.302									
12	.942	.906	.877	.833	.779	.746	.685	.623	.590	.517	.442	.283								
13	.950	.915	.888	.850	.800	.771	.727	.663	.608	.571	.504	.427	.265							
14	.956	.925	.898	.856	.819	.794	.758	.706	.646	.590	.558	.494	.410	.250						
15	.963	.931	.910	.865	.829	.813	.785	.740	.696	.623	.577	.548	.479	.398	.238					
16	.967	.940	.919	.875	.840	.823	.804	.773	.729	.679	.604	.565	.538	.467	.388	.225				
17	.969	.946	.929	.883	.850	.833	.817	.790	.769	.717	.658	.588	.556	.527	.456	.377	.210			
18	.971	.950	.938	.894	.858	.846	.827	.800	.785	.760	.702	.635	.577	.548	.519	.446	.367	.196		
19	.973	.954	.944	.904	.867	.852	.842	.813	.796	.779	.750	.683	.619	.569	.542	.510	.435	.354	.183	
20	.975	.958	.950	.913	.877	.858	.848	.831	.808	.792	.771	.733	.673	.604	.563	.533	.504	.419	.348	.171
21	.977	.963	.954	.923	.885	.867	.854	.842	.827	.804	.785	.760	.719	.663	.594	.554	.527	.492	.408	.340
22	.979	.967	.958	.929	.898	.873	.863	.852	.838	.823	.798	.779	.748	.706	.652	.583	.548	.519	.479	.396
23	.981	.971	.963	.935	.904	.885	.869	.860	.850	.833	.817	.792	.771	.738	.696	.640	.575	.542	.504	.465
24	.983	.975	.967	.942	.910	.892	.881	.867	.858	.848	.827	.813	.785	.760	.729	.683	.629	.567	.527	.488
25	.985	.979	.971	.948	.917	.898	.888	.879	.865	.856	.844	.823	.806	.777	.754	.721	.669	.621	.550	.508
26	.988	.983	.975	.954	.923	.904	.894	.885	.877	.863	.854	.842	.817	.802	.769	.748	.708	.658	.602	.533
27	.990	.985	.981	.960	.929	.910	.900	.892	.883	.875	.860	.852	.834	.813	.796	.763	.740	.698	.638	.585
28	.992	.988	.983	.971	.935	.917	.906	.898	.890	.881	.873	.858	.850	.833	.808	.790	.754	.731	.681	.621
29	.994	.990	.985	.977	.946	.923	.913	.904	.896	.888	.879	.871	.856	.846	.831	.804	.781	.746	.719	.669
30	.996	.992	.988	.983	.952	.933	.919	.910	.902	.894	.885	.877	.869	.854	.846	.829	.800	.773	.733	.710
31	.998	.994	.990	.985	.963	.940	.929	.917	.908	.900	.892	.883	.875	.867	.854	.846	.827	.794	.760	.727
32	1.00	.996	.992	.988	.965	.952	.935	.927	.915	.906	.898	.890	.881	.873	.867	.854	.846	.825	.785	.750
33	1.00	1.00	.994	.990	.967	.956	.948	.933	.923	.913	.904	.896	.888	.879	.873	.867	.854	.846	.821	.775
34	1.00	1.00	1.00	.992	.969	.960	.954	.946	.931	.923	.910	.902	.894	.885	.879	.873	.867	.854	.846	.815
35	1.00	1.00	1.00	1.00	.971	.965	.958	.954	.944	.929	.921	.908	.900	.892	.885	.879	.873	.867	.854	.844
36	1.00	1.00	1.00	1.00	.981	.969	.963	.958	.954	.942	.927	.919	.906	.898	.892	.885	.879	.873	.867	.854
37	1.00	1.00	1.00	1.00	.983	.981	.967	.963	.958	.954	.940	.925	.917	.904	.898	.892	.885	.879	.873	.867
38	1.00	1.00	1.00	1.00	.985	.983	.981	.967	.963	.958	.954	.938	.923	.915	.904	.898	.892	.885	.879	.873
39	1.00	1.00	1.00	1.00	.988	.985	.983	.981	.967	.963	.958	.954	.935	.921	.913	.904	.898	.892	.885	.879
40	1.00	1.00	1.00	1.00	.990	.988	.985	.983	.981	.967	.963	.958	.954	.933	.919	.910	.904	.898	.892	.885

TOTAL OBSERVATIONS 490

TABLE 4. 8.b. P(W < W\*) I LAUNCH OPPORTUNITIES IN J PERIODS (W\* = 50 M/SEC).  
BASED ON MAXIMUM WIND SPEEDS IN THE 10-15 KM LAYER OVER CAPE KENNEDY, FLORIDA.  
PERIOD OF RECORD JANUARY 1956 - DECEMBER 1963.

CAPE KENNEDY, FLORIDA APRIL  
SPEEDS LESS THAN 055 MPS

PC ( I CONSECUTIVE SUCCESSES IN J PERIODS )

	I																			
J	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
1	.756																			
2	.819	.698																		
3	.858	.750	.652																	
4	.883	.804	.698	.613																
5	.904	.840	.746	.652	.579															
6	.921	.867	.794	.694	.613	.552														
7	.931	.892	.825	.735	.648	.581	.529													
8	.942	.906	.850	.777	.683	.613	.558	.504												
9	.952	.921	.869	.804	.719	.644	.590	.533	.477											
10	.963	.935	.883	.823	.754	.675	.621	.565	.506	.450										
11	.969	.948	.898	.842	.777	.706	.652	.596	.538	.479	.425									
12	.975	.956	.913	.856	.796	.735	.683	.627	.569	.510	.454	.400								
13	.979	.963	.923	.871	.815	.754	.713	.658	.600	.542	.485	.429	.375							
14	.983	.969	.931	.881	.829	.769	.742	.688	.631	.573	.517	.460	.400	.356						
15	.985	.975	.938	.890	.842	.783	.760	.717	.660	.604	.548	.492	.427	.379	.342					
16	.988	.981	.944	.896	.854	.794	.775	.746	.690	.633	.579	.523	.454	.404	.365	.327				
17	.990	.985	.950	.902	.863	.804	.788	.765	.719	.663	.608	.554	.481	.429	.390	.350	.310			
18	.992	.988	.956	.908	.869	.815	.798	.777	.748	.692	.638	.583	.503	.454	.415	.375	.333	.294		
19	.994	.990	.960	.915	.875	.823	.808	.790	.765	.721	.667	.613	.535	.479	.440	.400	.358	.317	.277	
20	.996	.992	.965	.921	.881	.831	.819	.800	.777	.748	.696	.642	.563	.504	.465	.425	.383	.342	.296	.265
21	.998	.994	.969	.927	.888	.840	.827	.810	.790	.765	.723	.671	.590	.529	.490	.450	.408	.367	.317	.283
22	1.00	.996	.973	.933	.894	.848	.835	.821	.800	.777	.750	.698	.617	.554	.515	.475	.433	.392	.338	.304
23	1.00	.998	.977	.940	.900	.856	.844	.831	.810	.790	.767	.725	.642	.579	.540	.500	.458	.417	.358	.325
24	1.00	1.00	.981	.946	.906	.865	.852	.840	.823	.800	.779	.752	.667	.602	.565	.525	.483	.442	.379	.346
25	1.00	1.00	.985	.952	.913	.873	.860	.848	.833	.813	.792	.769	.692	.625	.588	.550	.508	.467	.400	.367
26	1.00	1.00	.990	.958	.919	.881	.869	.856	.842	.825	.804	.781	.717	.648	.610	.573	.533	.492	.421	.388
27	1.00	1.00	.994	.965	.925	.890	.877	.865	.850	.835	.817	.796	.733	.671	.633	.596	.556	.517	.442	.408
28	1.00	1.00	.998	.971	.931	.898	.885	.873	.858	.844	.827	.808	.748	.692	.656	.619	.579	.540	.463	.429
29	1.00	1.00	1.00	.977	.938	.906	.894	.881	.867	.852	.838	.819	.763	.710	.677	.642	.602	.563	.483	.450
30	1.00	1.00	1.00	.983	.944	.915	.902	.890	.875	.860	.846	.829	.775	.725	.700	.663	.625	.585	.504	.471
31	1.00	1.00	1.00	.988	.950	.923	.910	.898	.883	.869	.854	.840	.788	.738	.719	.685	.646	.608	.525	.492
32	1.00	1.00	1.00	.990	.956	.929	.919	.906	.892	.877	.863	.848	.800	.750	.731	.708	.669	.629	.546	.513
33	1.00	1.00	1.00	.992	.960	.935	.927	.915	.900	.885	.871	.856	.813	.763	.744	.725	.692	.652	.567	.533
34	1.00	1.00	1.00	.994	.965	.942	.933	.923	.908	.894	.879	.865	.823	.775	.756	.738	.715	.675	.590	.554
35	1.00	1.00	1.00	.996	.969	.948	.940	.931	.917	.902	.888	.873	.831	.788	.769	.750	.731	.698	.613	.577
36	1.00	1.00	1.00	.998	.973	.954	.946	.938	.925	.910	.896	.881	.840	.796	.781	.763	.744	.721	.635	.600
37	1.00	1.00	1.00	1.00	.977	.960	.952	.944	.935	.919	.904	.890	.848	.804	.792	.775	.756	.738	.658	.623
38	1.00	1.00	1.00	1.00	.979	.967	.958	.950	.942	.929	.913	.898	.856	.813	.800	.785	.769	.750	.681	.646
39	1.00	1.00	1.00	1.00	.981	.973	.965	.956	.948	.941	.923	.906	.865	.821	.808	.796	.779	.763	.698	.669
40	1.00	1.00	1.00	1.00	.983	.977	.971	.963	.954	.946	.933	.917	.873	.829	.817	.804	.790	.773	.713	.692

TOTAL OBSERVATIONS 480

TABLE 4. 9.a. P(W < W\*) I CONSECUTIVE LAUNCH OPPORTUNITIES IN J PERIODS (W\* = 55 M/SEC).  
BASED ON MAXIMUM WIND SPEEDS IN THE 10-15 KM LAYER OVER CAPE KENNEDY, FLORIDA.  
PERIOD OF RECORD JANUARY 1956 - DECEMBER 1963.

CAPE KENNEDY, FLORIDA APRIL  
SPEEDS LESS THAN 055 MPS

P ( I SUCCESSES IN J PERIODS )

	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
1	.756																			
2	.819	.698																		
3	.858	.773	.652																	
4	.883	.823	.740	.613																
5	.904	.854	.794	.710	.579															
6	.921	.881	.829	.765	.685	.552														
7	.931	.902	.860	.800	.744	.663	.529													
8	.942	.917	.883	.831	.781	.723	.646	.504												
9	.952	.929	.902	.852	.813	.763	.708	.631	.477											
10	.963	.940	.917	.875	.831	.794	.750	.698	.615	.450										
11	.969	.952	.927	.890	.858	.813	.777	.744	.685	.598	.425									
12	.975	.958	.942	.900	.871	.844	.796	.769	.738	.671	.583	.400								
13	.979	.967	.948	.917	.879	.856	.829	.788	.763	.727	.663	.569	.375							
14	.983	.973	.954	.925	.894	.867	.838	.825	.781	.752	.723	.652	.550	.356						
15	.985	.981	.960	.933	.902	.881	.848	.833	.821	.771	.748	.717	.635	.535	.342					
16	.988	.983	.973	.940	.910	.892	.858	.844	.831	.815	.763	.744	.704	.623	.525	.327				
17	.990	.985	.977	.952	.917	.902	.867	.852	.842	.829	.808	.756	.738	.690	.615	.515	.310			
18	.992	.988	.981	.956	.929	.910	.877	.860	.848	.840	.827	.800	.752	.727	.681	.606	.504	.294		
19	.994	.990	.983	.963	.935	.923	.885	.871	.854	.846	.838	.821	.796	.744	.725	.673	.595	.494	.277	
20	.996	.992	.985	.967	.944	.929	.900	.879	.863	.852	.844	.833	.817	.792	.740	.723	.665	.590	.479	.265
21	.998	.994	.988	.971	.950	.938	.906	.896	.871	.858	.850	.842	.829	.813	.788	.738	.721	.654	.579	.469
22	1.00	.996	.990	.975	.956	.944	.915	.902	.890	.865	.856	.848	.840	.825	.810	.785	.735	.717	.646	.569
23	1.00	1.00	.992	.979	.963	.950	.921	.910	.898	.881	.863	.854	.846	.838	.823	.808	.783	.733	.710	.638
24	1.00	1.00	.998	.983	.969	.956	.927	.917	.908	.888	.879	.860	.852	.844	.838	.821	.806	.781	.731	.704
25	1.00	1.00	1.00	.990	.977	.963	.933	.923	.915	.898	.885	.877	.858	.850	.844	.838	.819	.804	.779	.727
26	1.00	1.00	1.00	.996	.983	.973	.940	.929	.921	.904	.896	.883	.875	.856	.850	.844	.838	.817	.802	.775
27	1.00	1.00	1.00	.998	.994	.977	.952	.935	.927	.910	.902	.894	.881	.873	.856	.850	.844	.838	.815	.798
28	1.00	1.00	1.00	1.00	.996	.990	.956	.950	.933	.917	.908	.900	.892	.879	.871	.856	.850	.844	.838	.810
29	1.00	1.00	1.00	1.00	1.00	.992	.969	.956	.948	.923	.915	.906	.898	.890	.877	.869	.856	.850	.844	.838
30	1.00	1.00	1.00	1.00	1.00	.998	.973	.967	.956	.938	.921	.913	.904	.895	.888	.875	.869	.856	.850	.844
31	1.00	1.00	1.00	1.00	1.00	1.00	.981	.971	.965	.948	.935	.919	.910	.902	.894	.885	.875	.869	.856	.850
32	1.00	1.00	1.00	1.00	1.00	1.00	.983	.979	.969	.954	.948	.933	.917	.908	.900	.892	.883	.875	.869	.856
33	1.00	1.00	1.00	1.00	1.00	1.00	.990	.988	.977	.958	.952	.948	.931	.915	.906	.898	.890	.883	.875	.869
34	1.00	1.00	1.00	1.00	1.00	1.00	.992	.990	.988	.967	.956	.952	.948	.929	.913	.904	.896	.890	.883	.875
35	1.00	1.00	1.00	1.00	1.00	1.00	.994	.992	.990	.979	.965	.956	.952	.948	.927	.910	.902	.896	.890	.883
36	1.00	1.00	1.00	1.00	1.00	1.00	.996	.994	.992	.983	.977	.965	.956	.952	.948	.925	.908	.902	.896	.890
37	1.00	1.00	1.00	1.00	1.00	1.00	.998	.996	.994	.985	.983	.977	.965	.956	.952	.948	.923	.908	.902	.896
38	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.998	.996	.988	.985	.983	.977	.965	.956	.952	.948	.921	.908	.902
39	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.998	.990	.988	.985	.983	.977	.965	.956	.952	.948	.919	.908
40	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.992	.990	.988	.985	.983	.977	.965	.956	.952	.948	.917

TOTAL OBSERVATIONS 480

TABLE 4. 9.b. P(W < W\*) I LAUNCH OPPORTUNITIES IN J PERIODS (W\* = 55 M/SEC).  
BASED ON MAXIMUM WIND SPEEDS IN THE 10-15 KM LAYER OVER CAPE KENNEDY, FLORIDA.  
PERIOD OF RECORD JANUARY 1956 - DECEMBER 1963.

CAPE KENNEDY, FLORIDA APRIL  
SPEEDS LESS THAN 060 MPS

P ( 1 CONSECUTIVE SUCCESSES IN J PERIODS )

J	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	
1	.821																				
2	.873	.773																			
3	.900	.813	.738																		
4	.921	.852	.773	.710																	
5	.935	.879	.808	.744	.685																
6	.944	.902	.844	.777	.717	.663															
7	.952	.917	.871	.810	.748	.685	.648														
8	.960	.927	.892	.844	.779	.708	.671	.631													
9	.969	.938	.906	.867	.810	.731	.694	.654	.613												
10	.973	.948	.919	.883	.840	.754	.717	.677	.635	.594											
11	.977	.956	.931	.896	.858	.775	.740	.700	.658	.617	.577										
12	.981	.963	.942	.906	.875	.794	.760	.723	.681	.640	.600	.560									
13	.985	.969	.950	.915	.888	.808	.779	.744	.704	.663	.623	.581	.546								
14	.988	.975	.956	.923	.896	.821	.798	.763	.725	.685	.646	.602	.565	.533							
15	.997	.981	.963	.931	.904	.829	.813	.781	.744	.704	.669	.623	.583	.550	.525						
16	.992	.983	.969	.938	.913	.838	.825	.800	.763	.725	.690	.644	.602	.567	.542	.517					
17	.994	.985	.975	.944	.921	.846	.833	.815	.781	.744	.708	.663	.621	.583	.558	.533	.508				
18	.996	.988	.977	.950	.927	.854	.842	.827	.802	.763	.727	.679	.638	.600	.575	.550	.525	.500			
19	.998	.990	.979	.954	.933	.860	.850	.835	.817	.783	.746	.696	.652	.615	.592	.567	.542	.517	.492		
20	1.00	.992	.981	.958	.938	.867	.858	.844	.829	.804	.767	.713	.667	.629	.606	.583	.558	.533	.508	.483	
21	1.00	.994	.983	.963	.942	.873	.865	.852	.838	.819	.788	.731	.681	.644	.621	.598	.575	.550	.525	.500	
22	1.00	.996	.985	.967	.946	.879	.871	.860	.846	.831	.808	.750	.698	.658	.635	.613	.590	.567	.542	.517	
23	1.00	.998	.988	.971	.950	.885	.877	.869	.854	.840	.823	.769	.715	.675	.650	.627	.604	.581	.558	.533	
24	1.00	1.00	.990	.975	.954	.892	.883	.875	.865	.848	.833	.788	.731	.692	.667	.642	.619	.596	.573	.550	
25	1.00	1.00	.992	.979	.956	.898	.890	.881	.873	.858	.842	.798	.748	.708	.683	.658	.633	.610	.588	.565	
26	1.00	1.00	.994	.983	.963	.904	.896	.888	.879	.869	.852	.808	.763	.725	.700	.675	.648	.625	.602	.579	
27	1.00	1.00	.996	.988	.967	.910	.902	.894	.885	.877	.863	.819	.775	.740	.717	.692	.663	.640	.617	.594	
28	1.00	1.00	.998	.992	.971	.917	.908	.900	.892	.883	.873	.829	.790	.754	.731	.708	.677	.654	.631	.608	
29	1.00	1.00	1.00	.996	.975	.923	.915	.906	.898	.890	.881	.840	.802	.769	.746	.723	.692	.669	.646	.623	
30	1.00	1.00	1.00	.998	.979	.929	.921	.913	.904	.896	.888	.850	.815	.783	.763	.738	.704	.683	.660	.638	
31	1.00	1.00	1.00	1.00	.983	.935	.927	.919	.910	.902	.894	.860	.827	.798	.777	.754	.717	.696	.675	.652	
32	1.00	1.00	1.00	1.00	.985	.942	.933	.925	.917	.909	.900	.869	.840	.813	.792	.771	.731	.708	.688	.667	
33	1.00	1.00	1.00	1.00	.988	.948	.940	.931	.923	.915	.906	.877	.852	.827	.806	.785	.746	.723	.700	.679	
34	1.00	1.00	1.00	1.00	.990	.952	.944	.938	.929	.921	.913	.885	.863	.842	.821	.800	.760	.738	.715	.692	
35	1.00	1.00	1.00	1.00	.992	.956	.952	.944	.935	.927	.919	.894	.873	.856	.835	.815	.773	.752	.729	.706	
36	1.00	1.00	1.00	1.00	.994	.960	.956	.950	.942	.933	.925	.902	.883	.867	.850	.829	.785	.767	.744	.721	
37	1.00	1.00	1.00	1.00	.996	.965	.960	.956	.948	.940	.931	.910	.894	.877	.863	.844	.798	.779	.758	.735	
38	1.00	1.00	1.00	1.00	.998	.969	.965	.960	.954	.946	.938	.919	.904	.888	.873	.856	.810	.792	.773	.750	
39	1.00	1.00	1.00	1.00	1.00	.973	.969	.965	.960	.957	.944	.927	.915	.898	.883	.869	.821	.804	.785	.765	
40	1.00	1.00	1.00	1.00	1.00	.977	.973	.969	.965	.958	.950	.935	.923	.908	.894	.879	.831	.815	.798	.779	

TOTAL OBSERVATIONS 440

TABLE 4.10.a. P(W < W\*) 1 CONSECUTIVE LAUNCH OPPORTUNITIES IN J PERIODS (W\* = 60 M/SEC).  
BASED ON MAXIMUM WIND SPEEDS IN THE 10-15 KM LAYER OVER CAPE KENNEDY, FLORIDA.  
PERIOD OF RECORD JANUARY 1956 - DECEMBER 1963.

CAPE KENNEDY, FLORIDA ADP71  
 SPEEDS LESS THAN 60 M/S

P (I) SUCCESSFUL J PERIODS

J	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
1	.821																			
2	.873	.773																		
3	.900	.838	.738																	
4	.921	.873	.808	.710																
5	.935	.902	.848	.788	.685															
6	.944	.923	.881	.823	.767	.663														
7	.952	.933	.894	.869	.819	.740	.648													
8	.960	.942	.921	.896	.858	.794	.723	.631												
9	.969	.950	.931	.913	.888	.831	.781	.710	.613											
10	.973	.960	.940	.925	.906	.860	.821	.769	.700	.594										
11	.977	.967	.950	.933	.921	.881	.850	.804	.765	.690	.577									
12	.981	.971	.954	.942	.929	.900	.869	.831	.800	.760	.679	.560								
13	.985	.975	.958	.950	.938	.910	.890	.848	.823	.798	.758	.667	.546							
14	.988	.981	.963	.958	.944	.919	.902	.867	.838	.821	.796	.754	.654	.533						
15	.990	.983	.977	.963	.954	.927	.913	.879	.854	.833	.819	.794	.748	.640	.525					
16	.992	.985	.979	.973	.958	.938	.923	.888	.862	.844	.817	.792	.740	.629	.517					
17	.994	.988	.981	.977	.969	.942	.933	.898	.872	.854	.827	.815	.788	.733	.621	.508				
18	.996	.990	.983	.979	.975	.952	.938	.917	.890	.869	.854	.838	.827	.813	.783	.729	.613	.500		
19	.998	.992	.985	.981	.977	.967	.948	.917	.902	.876	.845	.850	.833	.825	.810	.781	.723	.606	.492	
20	1.00	.994	.988	.983	.979	.965	.956	.927	.910	.892	.875	.860	.844	.831	.815	.808	.779	.719	.600	.483
21	1.00	.998	.990	.985	.981	.969	.960	.935	.923	.900	.890	.871	.854	.840	.831	.825	.806	.777	.715	.594
22	1.00	1.00	.994	.988	.983	.973	.965	.940	.933	.913	.896	.888	.865	.848	.831	.825	.806	.775	.710	
23	1.00	1.00	1.00	.990	.985	.973	.964	.944	.934	.925	.908	.894	.883	.858	.840	.831	.825	.806	.773	
24	1.00	1.00	1.00	.998	.988	.977	.975	.948	.942	.931	.921	.906	.892	.877	.854	.846	.840	.831	.825	.806
25	1.00	1.00	1.00	1.00	.996	.981	.977	.956	.946	.938	.927	.917	.904	.888	.854	.846	.840	.831	.825	
26	1.00	1.00	1.00	1.00	1.00	.990	.978	.958	.956	.944	.933	.923	.915	.897	.874	.871	.854	.846	.840	.831
27	1.00	1.00	1.00	1.00	1.00	.998	.985	.960	.958	.954	.942	.929	.921	.904	.892	.879	.871	.854	.846	.840
28	1.00	1.00	1.00	1.00	1.00	1.00	.994	.967	.960	.958	.956	.940	.927	.917	.902	.890	.879	.871	.854	.846
29	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.977	.963	.961	.958	.956	.945	.925	.908	.900	.888	.879	.871	.854
30	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.985	.973	.963	.960	.958	.956	.935	.915	.906	.898	.888	.879	.871
31	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.990	.981	.971	.963	.960	.958	.956	.925	.913	.904	.896	.888	.879
32	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.992	.988	.974	.969	.963	.960	.958	.950	.921	.910	.902	.894	.888
33	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.994	.990	.988	.977	.967	.963	.960	.954	.948	.917	.908	.900	.894
34	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.996	.992	.990	.988	.975	.965	.963	.958	.952	.946	.915	.906	.900
35	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.998	.994	.992	.990	.988	.971	.965	.963	.956	.950	.946	.913	.906
36	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.996	.994	.992	.990	.983	.971	.965	.963	.954	.950	.946	.913
37	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.998	.996	.994	.992	.985	.983	.971	.965	.963	.954	.950	.946
38	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.994	.996	.994	.988	.985	.983	.971	.965	.963	.954	.950
39	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.998	.996	.990	.988	.985	.983	.971	.965	.963	.954
40	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.998	.992	.990	.988	.985	.983	.971	.965	.963	.954

TOTAL OBSERVATIONS 480

TABLE 4.10.b. P(W < W\*) I LAUNCH OPPORTUNITIES IN J PERIODS (W\* = 60 M/SEC).  
 BASED ON MAXIMUM WIND SPEEDS IN THE 10-15 KM LAYER OVER CAPE KENNEDY, FLORIDA.  
 PERIOD OF RECORD JANUARY 1956 - DECEMBER 1963.



CAPE KENNEDY, FLORIDA 40001  
 SPEEDS LESS THAN 65 KPH

( I CONSECUTIVE SUCCESS IN J PERIODS )

	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
1	.834																			
2	.942	.856																		
3	.967	.892	.825																	
4	.923	.927	.850	.804																
5	.920	.950	.875	.827	.788															
6	.924	.960	.920	.850	.808	.777														
7	1.00	.967	.910	.873	.829	.794	.759													
8	1.00	.973	.929	.896	.850	.815	.777	.746												
9	1.00	.977	.940	.913	.871	.835	.796	.763	.735											
10	1.00	.981	.950	.923	.890	.856	.815	.779	.752	.725										
11	1.00	.985	.958	.933	.904	.875	.833	.796	.769	.742	.717									
12	1.00	.990	.965	.942	.915	.894	.850	.813	.785	.758	.729	.710								
13	1.00	.994	.971	.950	.923	.908	.867	.827	.802	.775	.742	.723	.704							
14	1.00	.994	.975	.956	.931	.917	.893	.842	.817	.792	.754	.735	.717	.699						
15	1.00	1.00	.979	.963	.938	.925	.896	.856	.831	.806	.767	.748	.729	.710	.692					
16	1.00	1.00	.983	.967	.944	.931	.904	.871	.846	.821	.777	.760	.742	.723	.704	.688				
17	1.00	1.00	.985	.971	.950	.938	.910	.881	.860	.835	.788	.771	.754	.735	.717	.700	.683			
18	1.00	1.00	.988	.975	.954	.944	.917	.888	.875	.850	.798	.781	.765	.748	.729	.713	.696	.679		
19	1.00	1.00	.990	.979	.958	.950	.923	.894	.883	.865	.808	.792	.775	.756	.742	.725	.708	.692	.675	
20	1.00	1.00	.992	.983	.963	.954	.929	.900	.890	.877	.819	.802	.785	.769	.752	.738	.721	.704	.688	.671
21	1.00	1.00	.994	.988	.967	.958	.935	.906	.894	.885	.829	.813	.796	.779	.763	.748	.733	.717	.700	.683
22	1.00	1.00	.996	.992	.971	.963	.940	.913	.902	.892	.840	.823	.806	.790	.773	.758	.744	.729	.713	.696
23	1.00	1.00	.998	.994	.975	.967	.944	.919	.908	.898	.846	.833	.817	.800	.783	.769	.754	.740	.725	.708
24	1.00	1.00	1.00	.996	.979	.971	.948	.925	.915	.904	.852	.842	.827	.810	.794	.779	.765	.750	.735	.721
25	1.00	1.00	1.00	.998	.983	.975	.952	.931	.921	.910	.858	.848	.835	.821	.804	.790	.775	.760	.746	.731
26	1.00	1.00	1.00	1.00	.988	.979	.954	.938	.927	.917	.865	.854	.844	.829	.815	.800	.785	.771	.756	.742
27	1.00	1.00	1.00	1.00	.992	.983	.960	.944	.933	.923	.871	.863	.850	.838	.823	.810	.796	.781	.767	.752
28	1.00	1.00	1.00	1.00	.996	.988	.965	.950	.940	.929	.877	.869	.858	.846	.831	.819	.806	.792	.777	.763
29	1.00	1.00	1.00	1.00	.998	.992	.969	.956	.946	.937	.883	.875	.867	.854	.840	.827	.815	.802	.788	.773
30	1.00	1.00	1.00	1.00	1.00	.996	.973	.963	.952	.942	.890	.881	.873	.863	.850	.835	.823	.810	.798	.783
31	1.00	1.00	1.00	1.00	1.00	.998	.977	.969	.958	.948	.896	.888	.879	.871	.858	.846	.831	.819	.806	.794
32	1.00	1.00	1.00	1.00	1.00	1.00	.981	.975	.965	.954	.902	.894	.885	.877	.867	.856	.842	.827	.815	.802
33	1.00	1.00	1.00	1.00	1.00	1.00	.985	.979	.971	.960	.908	.900	.892	.883	.875	.865	.852	.838	.823	.810
34	1.00	1.00	1.00	1.00	1.00	1.00	.990	.983	.977	.967	.910	.906	.898	.890	.891	.873	.863	.846	.833	.819
35	1.00	1.00	1.00	1.00	1.00	1.00	.992	.988	.981	.973	.921	.913	.904	.896	.888	.880	.871	.858	.844	.829
36	1.00	1.00	1.00	1.00	1.00	1.00	.994	.992	.985	.979	.927	.919	.910	.902	.894	.898	.879	.869	.854	.840
37	1.00	1.00	1.00	1.00	1.00	1.00	.996	.994	.990	.983	.933	.925	.917	.908	.900	.894	.888	.877	.865	.850
38	1.00	1.00	1.00	1.00	1.00	1.00	.998	.996	.994	.988	.940	.931	.923	.915	.906	.900	.894	.885	.875	.860
39	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.998	.996	.992	.946	.938	.929	.921	.913	.906	.900	.894	.883	.871
40	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.998	.996	.952	.944	.935	.927	.919	.913	.906	.900	.892	.881

TOTAL OBSERVATIONS 480

TABLE 4.11.a. P(W >= I CONSECUTIVE LAUNCH OPPORTUNITIES IN J PERIODS (W# = 65 M/SEC).  
 BASED ON MAXIMUM WIND SPEEDS IN THE 10-15 KM LAYER OVER CAPE KENNEDY, FLORIDA.  
 PERIOD OF RECORD JANUARY 1956 - DECEMBER 1963.

CAPE KENNEDY, FLORIDA APRIL  
 SPEEDS LESS THAN 65 MPH

P ( I SUCCESSES IN J PERIODS )

J	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	
1	.898																				
2	.942	.856																			
3	.969	.908	.825																		
4	.983	.944	.879	.804																	
5	.990	.965	.921	.860	.788																
6	.996	.971	.946	.908	.842	.773															
7	1.00	.977	.958	.935	.894	.827	.758														
8	1.00	.985	.967	.952	.923	.883	.813	.746													
9	1.00	.990	.975	.963	.944	.913	.873	.798	.735												
10	1.00	.994	.981	.969	.956	.935	.906	.856	.790	.725											
11	1.00	.996	.990	.973	.963	.950	.929	.894	.844	.783	.717										
12	1.00	.998	.994	.981	.967	.956	.946	.921	.875	.840	.775	.710									
13	1.00	1.00	.996	.988	.975	.960	.952	.942	.902	.867	.831	.771	.704								
14	1.00	1.00	1.00	.990	.935	.967	.956	.948	.931	.890	.854	.827	.767	.698							
15	1.00	1.00	1.00	.996	.988	.979	.963	.952	.944	.921	.873	.848	.821	.763	.692						
16	1.00	1.00	1.00	.998	.994	.983	.975	.958	.948	.935	.902	.869	.840	.817	.758	.688					
17	1.00	1.00	1.00	1.00	.996	.990	.981	.971	.954	.940	.921	.894	.860	.833	.815	.756	.683				
18	1.00	1.00	1.00	1.00	1.00	.992	.988	.979	.967	.946	.929	.913	.888	.848	.831	.815	.754	.679			
19	1.00	1.00	1.00	1.00	1.00	.998	.990	.985	.977	.956	.938	.923	.904	.877	.842	.831	.815	.752	.675		
20	1.00	1.00	1.00	1.00	1.00	1.00	.996	.988	.983	.971	.950	.931	.915	.896	.869	.840	.831	.815	.750	.671	
21	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.994	.985	.979	.965	.942	.921	.910	.890	.863	.840	.831	.815	.748	
22	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.992	.983	.975	.954	.931	.919	.906	.881	.858	.840	.831	.715	
23	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.990	.981	.965	.944	.929	.917	.900	.877	.854	.840	.831	
24	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.988	.975	.952	.942	.927	.913	.898	.873	.852	.840	
25	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.981	.969	.946	.940	.925	.908	.896	.869	.850	
26	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.996	.977	.963	.944	.938	.923	.906	.894	.867
27	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.998	.994	.969	.963	.942	.935	.921	.904
28	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.996	.985	.967	.963	.940	.933	.919
29	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.988	.985	.965	.963	.938	.931
30	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.994	.988	.983	.965	.963	.935
31	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.996	.994	.988	.981	.965	.963
32	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.998	.996	.994	.988	.979	.965
33	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.998	.996	.994	.988	.977	.965
34	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.998	.996	.994	.988	.975	
35	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.998	.996	.994	.988	
36	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.998	.996	.994	
37	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.998	.996	
38	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.998	
39	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
40	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00

TOTAL OBSERVATIONS 480

TABLE 4.11.b. P(W < W\*) I LAUNCH OPPORTUNITIES IN J PERIODS (W\* = 65 M/SEC).  
 BASED ON MAXIMUM WIND SPEEDS IN THE 10-15 KM LAYER OVER CAPE KENNEDY, FLORIDA.  
 PERIOD OF RECORD JANUARY 1956 - DECEMBER 1963.

CAPE KENNEDY, FLORIDA APRIL  
SPEEDS LESS THAN 070 MPS

PC ( I CONSECUTIVE SUCCESSSES IN J PERIODS )

	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
1	.942																			
2	.973	.910																		
3	.990	.938	.888																	
4	.996	.965	.908	.871																
5	.998	.981	.929	.892	.854															
6	1.00	.988	.950	.913	.875	.838														
7	1.00	.992	.960	.933	.896	.858	.821													
8	1.00	.996	.967	.954	.917	.879	.842	.806												
9	1.00	.998	.973	.963	.938	.900	.863	.827	.792											
10	1.00	1.00	.979	.969	.956	.921	.883	.848	.813	.777										
11	1.00	1.00	.983	.975	.965	.940	.904	.869	.833	.798	.765									
12	1.00	1.00	.988	.979	.971	.958	.923	.890	.854	.819	.781	.756								
13	1.00	1.00	.992	.983	.975	.967	.942	.908	.875	.840	.798	.773	.748							
14	1.00	1.00	.996	.988	.979	.971	.960	.927	.894	.860	.815	.790	.765	.740						
15	1.00	1.00	.998	.992	.983	.975	.967	.946	.913	.879	.831	.806	.781	.756	.729					
16	1.00	1.00	1.00	.996	.988	.979	.971	.960	.931	.899	.846	.823	.798	.773	.744	.723				
17	1.00	1.00	1.00	.998	.992	.983	.975	.967	.946	.917	.860	.838	.815	.790	.758	.738	.717			
18	1.00	1.00	1.00	1.00	.996	.988	.979	.971	.960	.931	.875	.852	.829	.806	.773	.752	.731	.710		
19	1.00	1.00	1.00	1.00	.998	.992	.983	.975	.967	.946	.885	.867	.844	.821	.788	.767	.746	.725	.704	
20	1.00	1.00	1.00	1.00	1.00	.996	.988	.979	.971	.960	.896	.877	.858	.835	.800	.781	.760	.740	.717	.700
21	1.00	1.00	1.00	1.00	1.00	.998	.992	.983	.975	.967	.906	.888	.869	.850	.813	.794	.775	.754	.729	.713
22	1.00	1.00	1.00	1.00	1.00	1.00	.996	.988	.979	.971	.917	.898	.879	.860	.825	.806	.788	.769	.742	.725
23	1.00	1.00	1.00	1.00	1.00	1.00	.998	.992	.983	.975	.921	.908	.890	.871	.835	.819	.800	.781	.754	.738
24	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.996	.988	.979	.925	.917	.900	.881	.846	.829	.813	.794	.765	.750
25	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.998	.992	.983	.929	.921	.908	.892	.856	.840	.823	.806	.775	.760
26	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.996	.988	.933	.925	.917	.900	.867	.850	.833	.817	.785	.771
27	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.998	.992	.938	.929	.921	.908	.875	.860	.844	.827	.796	.781
28	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.996	.942	.933	.925	.917	.883	.869	.854	.838	.806	.792
29	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.998	.946	.938	.929	.921	.892	.877	.863	.848	.817	.802
30	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.950	.942	.933	.925	.902	.885	.871	.856	.827	.813
31	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.954	.946	.938	.929	.906	.896	.879	.865	.835	.823
32	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.958	.950	.942	.933	.910	.906	.890	.873	.844	.831
33	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.963	.954	.946	.938	.915	.910	.900	.883	.852	.840
34	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.967	.958	.950	.942	.919	.915	.910	.894	.863	.848
35	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.971	.963	.954	.946	.923	.919	.915	.904	.873	.858
36	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.975	.967	.958	.950	.927	.923	.919	.915	.883	.869
37	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.979	.971	.963	.954	.931	.927	.923	.919	.894	.879
38	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.983	.975	.967	.958	.935	.931	.923	.919	.904	.890
39	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.988	.979	.971	.963	.940	.935	.931	.927	.910	.900
40	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.992	.983	.975	.967	.944	.940	.935	.931	.917	.910

TOTAL OBSERVATIONS 480

TABLE 4.12.a. P(W < W\*) I CONSECUTIVE LAUNCH OPPORTUNITIES IN J PERIODS (W\* = 70 M/SEC).  
BASED ON MAXIMUM WIND SPEEDS IN THE 10-15 KM LAYER OVER CAPE KENNEDY, FLORIDA.

PERIOD OF RECORD JANUARY 1956 - DECEMBER 1963.

CAPE KENNEDY, FLORIDA APRIL  
SPEEDS LESS THAN 70 MPS

P ( I SUCCESSFUL IN J PERIODS )

	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	
1	.942																				
2	.973	.910																			
3	.990	.952	.898																		
4	.996	.981	.931	.871																	
5	.998	.992	.965	.923	.854																
6	1.00	.996	.979	.954	.917	.838															
7	1.00	.00	.988	.971	.948	.910	.821														
8	1.00	1.00	.996	.983	.963	.944	.904	.806													
9	1.00	1.00	.998	.994	.975	.958	.940	.898	.792												
10	1.00	1.00	1.00	.996	.998	.971	.954	.935	.892	.777											
11	1.00	1.00	1.00	1.00	.992	.983	.967	.950	.931	.885	.765										
12	1.00	1.00	1.00	1.00	1.00	.988	.979	.963	.946	.927	.877	.756									
13	1.00	1.00	1.00	1.00	1.00	1.00	.983	.975	.958	.942	.919	.873	.748								
14	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.979	.971	.954	.935	.913	.869	.740							
15	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.975	.967	.950	.929	.906	.865	.729						
16	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.971	.963	.944	.923	.902	.858	.723					
17	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.967	.958	.935	.919	.894	.858	.717				
18	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.963	.950	.931	.913	.890	.858	.710			
19	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.956	.944	.927	.908	.885	.858	.704		
20	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.998	.952	.938	.925	.900	.885	.856	.700
21	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.996	.946	.933	.917	.898	.885	.854
22	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.992	.942	.927	.908	.898	.885
23	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.988	.938	.921	.904	.898
24	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.983	.935	.913	.904
25	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.979	.927	.910
26	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.971	.921
27	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.998	.963
28	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.996
29	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
30	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
31	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
32	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
33	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
34	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
35	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
36	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
37	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
38	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
39	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
40	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00

TOTAL OBSERVATIONS 480

TABLE 4.12 b. P(W < W\*) I LAUNCH OPPORTUNITIES IN J PERIODS (W\* = 70 M/SEC).  
BASED ON MAXIMUM WIND SPEEDS IN THE 10-15 KM LAYER OVER CAPE KENNEDY, FLORIDA.  
PERIOD OF RECORD JANUARY 1956 - DECEMBER 1963.

CAPE KENNEDY, FLORIDA APRIL  
SPEEDS LESS THAN 075 MPS

PC ( I CONSECUTIVE SUCCESSES IN J PERIODS )

	I																			
J	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
1	.973																			
2	.990	.956																		
3	.998	.971	.944																	
4	1.00	.985	.958	.931																
5	1.00	.996	.973	.942	.925															
6	1.00	1.00	.988	.952	.935	.919														
7	1.00	1.00	.996	.963	.946	.929	.913													
8	1.00	1.00	1.00	.973	.956	.940	.923	.906												
9	1.00	1.00	1.00	.981	.967	.950	.933	.917	.900											
10	1.00	1.00	1.00	.988	.975	.960	.944	.927	.910	.894										
11	1.00	1.00	1.00	.992	.983	.969	.954	.938	.921	.904	.890									
12	1.00	1.00	1.00	.994	.990	.977	.963	.948	.931	.915	.900	.885								
13	1.00	1.00	1.00	.996	.992	.985	.971	.956	.942	.925	.910	.896	.881							
14	1.00	1.00	1.00	.998	.994	.990	.979	.965	.950	.935	.921	.906	.892	.877						
15	1.00	1.00	1.00	1.00	.996	.992	.985	.973	.958	.944	.931	.917	.902	.888	.871					
16	1.00	1.00	1.00	1.00	.998	.994	.990	.979	.967	.952	.940	.927	.913	.898	.881	.865				
17	1.00	1.00	1.00	1.00	1.00	.996	.992	.985	.973	.960	.948	.935	.923	.908	.892	.875	.860			
18	1.00	1.00	1.00	1.00	1.00	.998	.994	.990	.979	.967	.956	.944	.931	.919	.902	.885	.871	.856		
19	1.00	1.00	1.00	1.00	1.00	1.00	.996	.992	.985	.973	.963	.952	.940	.927	.913	.896	.881	.867	.852	
20	1.00	1.00	1.00	1.00	1.00	1.00	.998	.994	.990	.979	.969	.958	.948	.935	.921	.906	.892	.877	.863	.848
21	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.996	.992	.985	.975	.965	.954	.944	.929	.915	.902	.888	.873	.858
22	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.998	.994	.990	.981	.971	.960	.950	.938	.923	.910	.898	.883	.869
23	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.996	.997	.985	.977	.967	.956	.944	.931	.919	.906	.894	.879
24	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.998	.994	.990	.981	.973	.963	.950	.938	.927	.915	.902	.890
25	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.996	.992	.985	.977	.969	.956	.944	.933	.923	.910	.898
26	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.998	.994	.990	.981	.973	.963	.950	.940	.929	.919	.906
27	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.996	.992	.985	.977	.967	.956	.946	.935	.925	.915
28	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.998	.994	.990	.981	.971	.960	.952	.942	.931	.921
29	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.996	.992	.985	.975	.965	.956	.948	.938	.927
30	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.998	.994	.990	.981	.969	.960	.952	.944	.933
31	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.996	.992	.985	.975	.965	.956	.948	.940
32	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.998	.994	.990	.981	.971	.960	.952	.944
33	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.996	.992	.985	.977	.967	.956	.948
34	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.998	.994	.990	.983	.973	.963	.952
35	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.996	.992	.988	.979	.969	.958
36	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.998	.994	.992	.985	.975	.965
37	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.996	.994	.990	.981	.971	.961
38	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.998	.996	.994	.988	.977	.967
39	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.998	.996	.992	.983	.973
40	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.998	.996	.990

TOTAL OBSERVATIONS 440

TABLE 4.13.a. P(W < W\*) I CONSECUTIVE LAUNCH OPPORTUNITIES IN J PERIODS (W\* = 75 M/SEC).  
BASED ON MAXIMUM WIND SPEEDS IN THE 10-15 KM LAYER OVER CAPE KENNEDY, FLORIDA.  
PERIOD OF RECORD JANUARY 1956 - DECEMBER 1963.

CAPE KENNEDY, FLORIDA APRIL  
SPEEDS LESS THAN 075 MPS

P ( I SUCCESSES IN J PERIODS )

	I																			
J	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
1	.973																			
2	.990	.956																		
3	.998	.979	.944																	
4	1.00	.996	.971	.931																
5	1.00	1.00	.994	.958	.925															
6	1.00	1.00	1.00	.988	.950	.919														
7	1.00	1.00	1.00	1.00	.979	.944	.913													
8	1.00	1.00	1.00	1.00	.998	.975	.938	.906												
9	1.00	1.00	1.00	1.00	1.00	.996	.971	.931	.900											
10	1.00	1.00	1.00	1.00	1.00	1.00	.994	.967	.925	.894										
11	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.992	.963	.919	.890									
12	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.990	.958	.915	.885								
13	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.988	.954	.910	.881							
14	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.985	.950	.906	.877						
15	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.983	.946	.902	.871						
16	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.981	.942	.898	.865					
17	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.979	.938	.894	.860				
18	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.977	.933	.890	.856			
19	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.975	.929	.888	.852		
20	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.973	.925	.885	.848	
21	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.971	.921	.883
22	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.969	.917
23	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.967
24	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
25	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
26	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
27	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
28	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
29	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
30	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
31	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
32	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
33	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
34	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
35	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
36	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
37	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
38	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
39	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
40	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00

TOTAL OBSERVATIONS 480

TABLE 4.13.b. P(W < W\*) I LAUNCH OPPORTUNITIES IN J PERIODS (W\* = 75 M/SEC).  
BASED ON MAXIMUM WIND SPEEDS IN THE 10-15 KM LAYER OVER CAPE KENNEDY, FLORIDA.  
PERIOD OF RECORD JANUARY 1956 - DECEMBER 1963.

CAPF KENNEDY , FLORIDA APRIL  
SPEEDS LESS THAN 080 MPS

PC ( I CONSECUTIVE SUCCESSES IN J PERIODS )

	I																			
J	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
1	.988																			
2	.996	.979																		
3	1.00	.988	.973																	
4	1.00	.996	.981	.967																
5	1.00	1.00	.990	.973	.963															
6	1.00	1.00	.998	.979	.969	.958														
7	1.00	1.00	1.00	.985	.975	.965	.954													
8	1.00	1.00	1.00	.990	.981	.971	.960	.950												
9	1.00	1.00	1.00	.992	.985	.977	.967	.956	.946											
10	1.00	1.00	1.00	.994	.990	.981	.973	.963	.952	.942										
11	1.00	1.00	1.00	.996	.992	.985	.977	.969	.958	.948	.938									
12	1.00	1.00	1.00	.998	.994	.990	.981	.973	.965	.954	.944	.933								
13	1.00	1.00	1.00	1.00	.996	.992	.985	.977	.969	.960	.950	.940	.929							
14	1.00	1.00	1.00	1.00	.998	.994	.990	.981	.973	.965	.956	.946	.935	.925						
15	1.00	1.00	1.00	1.00	1.00	.996	.992	.985	.977	.969	.960	.952	.942	.931	.921					
16	1.00	1.00	1.00	1.00	1.00	.998	.994	.990	.981	.973	.965	.956	.948	.938	.927	.917				
17	1.00	1.00	1.00	1.00	1.00	1.00	.996	.992	.985	.977	.969	.960	.952	.944	.933	.923	.913			
18	1.00	1.00	1.00	1.00	1.00	1.00	.998	.994	.990	.981	.973	.965	.956	.948	.940	.929	.919	.908		
19	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.996	.992	.985	.977	.969	.960	.952	.944	.935	.925	.915	.906	
20	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.998	.994	.990	.981	.973	.965	.956	.948	.940	.931	.921	.913	.904
21	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.996	.992	.985	.977	.969	.960	.952	.944	.935	.927	.919	.910
22	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.998	.994	.990	.981	.973	.965	.956	.948	.940	.931	.925	.917
23	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.996	.992	.985	.977	.969	.960	.952	.944	.935	.929	.923
24	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.998	.994	.990	.981	.973	.965	.956	.948	.940	.933	.927
25	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.996	.992	.985	.977	.969	.960	.952	.944	.938	.931
26	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.998	.994	.990	.981	.973	.965	.956	.948	.942	.935
27	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.996	.992	.985	.977	.969	.960	.952	.946	.940
28	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.998	.994	.990	.981	.973	.965	.956	.950	.944
29	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.996	.992	.985	.977	.969	.960	.954	.948
30	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.998	.994	.990	.981	.973	.965	.958	.952
31	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.996	.992	.985	.977	.969	.963	.956
32	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.998	.994	.990	.981	.973	.967	.960
33	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.996	.992	.985	.977	.971	.965
34	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.998	.994	.990	.981	.975	.969
35	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.996	.992	.985	.979	.973
36	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.994	.990	.983	.977	
37	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.996	.992	.988	.981
38	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.998	.994	.992	.985
39	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.996	.994	.990
40	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.998	.996	.994

TOTAL OBSERVATIONS 480

TABLE 4.14.a. P(W < W\*) I CONSECUTIVE LAUNCH OPPORTUNITIES IN J PERIODS (W\* = 80 M/SEC).  
BASED ON MAXIMUM WIND SPEEDS IN THE 10-15 KM LAYER OVER CAPE KENNEDY, FLORIDA.  
PERIOD OF RECORD JANUARY 1956 - DECEMBER 1963.

CAPE KENNEDY, FLORIDA APRIL  
SPEEDS LESS THAN 800 MPS

P ( I SUCCESSES IN J PERIODS )

J	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
1	.988																			
2	.996	.979																		
3	1.00	.992	.973																	
4	1.00	1.00	.990	.967																
5	1.00	1.00	1.00	.985	.963															
6	1.00	1.00	1.00	.998	.983	.958														
7	1.00	1.00	1.00	1.00	.996	.981	.954													
8	1.00	1.00	1.00	1.00	1.00	.994	.979	.950												
9	1.00	1.00	1.00	1.00	1.00	1.00	.992	.977	.946											
10	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.990	.975	.942										
11	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.988	.973	.938									
12	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.985	.971	.933								
13	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.983	.969	.929							
14	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.981	.967	.925						
15	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.979	.965	.921					
16	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.977	.963	.917				
17	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.975	.960	.913			
18	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.973	.958	.908		
19	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.971	.956	.906	
20	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.969	.954	.904
21	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.967	.952
22	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.965
23	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
24	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
25	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
26	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
27	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
28	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
29	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
30	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
31	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
32	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
33	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
34	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
35	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
36	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
37	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
38	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
39	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
40	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00

TOTAL OBSERVATIONS 480

TABLE 4.14.b. P(N < M\*) I LAUNCH OPPORTUNITIES IN J PERIODS (M\* = 80 M/SEC).  
BASED ON MAXIMUM WIND SPEEDS IN THE 10-15 KM LAYER OVER CAPE KENNEDY, FLORIDA.  
PERIOD OF RECORD JANUARY 1956 - DECEMBER 1963.



CAPE KENNEDY, FLORIDA MAY  
SPEEDS LESS THAN 010 MPS

PC ( I CONSECUTIVE SUCCESSES IN J PERIODS )

	I																			
J	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
1	.026																			
2	.044	.010																		
3	.058	.016	.006																	
4	.073	.022	.010	.002																
5	.087	.026	.014	.004	.000															
6	.101	.030	.018	.006	.000	.000														
7	.113	.034	.020	.008	.000	.000	.000													
8	.125	.038	.022	.010	.000	.000	.000	.000												
9	.137	.042	.024	.012	.000	.000	.000	.000	.000											
10	.147	.046	.026	.014	.000	.000	.000	.000	.000	.000										
11	.157	.050	.028	.016	.000	.000	.000	.000	.000	.000	.000									
12	.167	.054	.030	.018	.000	.000	.000	.000	.000	.000	.000	.000								
13	.179	.058	.032	.020	.000	.000	.000	.000	.000	.000	.000	.000	.000							
14	.192	.065	.034	.022	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000						
15	.206	.071	.038	.024	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000					
16	.220	.077	.042	.026	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000				
17	.238	.083	.046	.028	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000			
18	.254	.091	.050	.030	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000		
19	.272	.099	.056	.032	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	
20	.290	.107	.063	.036	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	
21	.308	.115	.069	.040	.002	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
22	.327	.123	.075	.044	.004	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
23	.345	.131	.081	.048	.006	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
24	.363	.139	.087	.052	.008	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
25	.381	.147	.093	.056	.010	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
26	.399	.157	.099	.060	.012	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
27	.417	.167	.107	.065	.014	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
28	.435	.181	.115	.069	.016	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
29	.454	.194	.123	.073	.018	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
30	.472	.206	.131	.077	.020	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
31	.488	.218	.139	.081	.022	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
32	.504	.230	.147	.085	.024	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
33	.520	.242	.155	.089	.026	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
34	.534	.254	.163	.093	.028	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
35	.548	.266	.171	.097	.030	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
36	.563	.278	.179	.101	.032	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
37	.577	.290	.188	.105	.034	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
38	.591	.302	.196	.109	.036	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
39	.605	.315	.204	.113	.038	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
40	.619	.327	.212	.117	.040	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
TOTAL OBSERVATIONS 476																				

TABLE 5. 1.a. P(W < W\*) I CONSECUTIVE LAUNCH OPPORTUNITIES IN J PERIODS (W\* = 10 M/SEC).  
BASED ON MAXIMUM WIND SPEEDS IN THE 10-15 KM LAYER OVER CAPE KENNEDY, FLORIDA.  
PERIOD OF RECORD JANUARY 1956 - DECEMBER 1963.

CAPE KENNEDY, FLORIDA MAY  
 SPFFDS LESS THAN 010 MPS

P ( I SUCCESSFUL I J PERIODS )

J	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	
1	.026																				
2	.044	.010																			
3	.058	.020	.006																		
4	.073	.028	.014	.002																	
5	.087	.038	.016	.010	.000																
6	.101	.044	.022	.012	.006	.000															
7	.113	.050	.026	.016	.008	.004	.000														
8	.125	.056	.030	.018	.012	.006	.002	.000													
9	.137	.063	.034	.020	.016	.008	.004	.000	.000												
10	.147	.071	.038	.022	.018	.012	.006	.000	.000	.000											
11	.157	.079	.042	.024	.020	.014	.010	.000	.000	.000	.000										
12	.167	.087	.046	.026	.022	.016	.012	.002	.000	.000	.000	.000									
13	.179	.095	.050	.028	.024	.018	.014	.004	.000	.000	.000	.000	.000								
14	.192	.103	.056	.030	.026	.020	.016	.006	.000	.000	.000	.000	.000	.000							
15	.206	.111	.063	.034	.028	.022	.018	.008	.000	.000	.000	.000	.000	.000	.000						
16	.220	.119	.069	.036	.032	.024	.020	.010	.000	.000	.000	.000	.000	.000	.000	.000					
17	.238	.127	.075	.040	.034	.028	.022	.012	.000	.000	.000	.000	.000	.000	.000	.000	.000				
18	.254	.139	.081	.044	.038	.032	.024	.014	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000			
19	.272	.151	.089	.048	.042	.034	.028	.016	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000		
20	.290	.161	.099	.054	.046	.038	.030	.020	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	
21	.308	.173	.109	.060	.052	.042	.034	.022	.002	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	
22	.327	.185	.119	.067	.058	.046	.038	.024	.004	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	
23	.345	.198	.127	.075	.065	.050	.042	.026	.006	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	
24	.363	.210	.135	.083	.071	.054	.046	.028	.008	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	
25	.381	.222	.145	.091	.077	.058	.050	.030	.010	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	
26	.399	.236	.155	.101	.083	.063	.054	.032	.012	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	
27	.417	.250	.167	.111	.091	.067	.058	.034	.014	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	
28	.435	.264	.179	.121	.099	.071	.063	.036	.016	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	
29	.454	.278	.192	.133	.107	.075	.067	.038	.018	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	
30	.472	.292	.204	.145	.117	.079	.071	.040	.020	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	
31	.488	.306	.216	.157	.127	.083	.075	.044	.022	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	
32	.504	.321	.228	.169	.137	.087	.079	.048	.024	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	
33	.520	.335	.240	.181	.147	.091	.083	.052	.026	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	
34	.534	.353	.252	.194	.157	.095	.087	.056	.028	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	
35	.548	.369	.266	.206	.167	.099	.091	.060	.030	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	
36	.563	.385	.280	.218	.177	.103	.095	.065	.032	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	
37	.577	.401	.294	.230	.188	.107	.099	.069	.034	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	
38	.591	.417	.308	.242	.198	.111	.103	.073	.036	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	
39	.605	.433	.323	.254	.208	.115	.107	.077	.038	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	
40	.619	.450	.339	.266	.218	.119	.111	.081	.040	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	

TOTAL OBSERVATIONS 496

TABLE 5. 1.b. P(W < W\*) I LAUNCH OPPORTUNITIES IN J PERIODS (W\* = 10 M/SEC).  
 BASED ON MAXIMUM WIND SPEEDS IN THE 10-15 KM LAYER OVER CAPE KENNEDY, FLORIDA.  
 PERIOD OF RECORD JANUARY 1956 - DECEMBER 1963.

CAPE KENNEDY, FLORIDA MAY  
SPEEDS LESS THAN 215 KPH

PC ( I CONSECUTIVE SUCCESSSES IN J PERIODS )

	I																			
J	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
1	.135																			
2	.183	.095																		
3	.224	.123	.075																	
4	.264	.151	.093	.060																
5	.302	.177	.111	.077	.048															
6	.337	.204	.129	.093	.065	.036														
7	.367	.229	.145	.109	.081	.042	.030													
8	.395	.249	.161	.125	.097	.048	.034	.026												
9	.423	.266	.177	.139	.113	.054	.038	.030	.022											
10	.452	.286	.192	.153	.129	.060	.042	.034	.026	.018										
11	.478	.306	.206	.167	.143	.067	.046	.038	.030	.022	.014									
12	.504	.329	.220	.181	.157	.073	.050	.042	.034	.024	.018	.010								
13	.530	.351	.236	.194	.173	.079	.054	.046	.038	.030	.022	.014	.006							
14	.554	.373	.252	.206	.188	.085	.058	.050	.042	.034	.026	.018	.010	.002						
15	.579	.395	.270	.218	.200	.091	.063	.054	.046	.038	.030	.022	.014	.004	.000					
16	.603	.417	.288	.232	.212	.095	.067	.058	.050	.042	.034	.026	.018	.006	.000	.000				
17	.627	.440	.305	.248	.226	.099	.071	.063	.054	.044	.038	.030	.022	.008	.000	.000	.000			
18	.649	.462	.325	.262	.242	.105	.075	.067	.058	.050	.042	.034	.026	.010	.000	.000	.000	.000		
19	.669	.484	.343	.276	.258	.113	.081	.071	.063	.054	.046	.038	.030	.012	.000	.000	.000	.000	.000	
20	.688	.504	.361	.292	.272	.121	.089	.077	.067	.058	.050	.042	.034	.014	.000	.000	.000	.000	.000	.000
21	.702	.524	.377	.308	.288	.129	.097	.085	.073	.063	.054	.046	.038	.016	.000	.000	.000	.000	.000	.000
22	.716	.542	.391	.323	.304	.139	.105	.093	.081	.067	.058	.050	.042	.018	.000	.000	.000	.000	.000	.000
23	.728	.560	.405	.337	.319	.149	.115	.101	.089	.073	.063	.054	.046	.020	.000	.000	.000	.000	.000	.000
24	.740	.579	.419	.349	.333	.159	.125	.111	.097	.079	.067	.058	.050	.022	.000	.000	.000	.000	.000	.000
25	.752	.597	.433	.361	.347	.169	.135	.121	.107	.088	.071	.063	.054	.024	.000	.000	.000	.000	.000	.000
26	.764	.615	.448	.373	.359	.179	.145	.131	.117	.093	.075	.067	.058	.026	.000	.000	.000	.000	.000	.000
27	.776	.633	.462	.385	.371	.192	.155	.141	.127	.101	.081	.071	.063	.028	.000	.000	.000	.000	.000	.000
28	.788	.647	.476	.397	.383	.204	.167	.151	.137	.109	.087	.077	.067	.030	.000	.000	.000	.000	.000	.000
29	.798	.659	.490	.409	.395	.216	.179	.163	.147	.117	.093	.083	.073	.032	.000	.000	.000	.000	.000	.000
30	.808	.671	.502	.421	.407	.228	.192	.175	.159	.125	.099	.089	.079	.034	.000	.000	.000	.000	.000	.000
31	.819	.683	.512	.433	.419	.240	.204	.188	.171	.135	.105	.095	.085	.036	.000	.000	.000	.000	.000	.000
32	.829	.696	.522	.444	.431	.252	.216	.200	.183	.145	.111	.101	.091	.038	.000	.000	.000	.000	.000	.000
33	.837	.708	.534	.454	.442	.264	.228	.212	.196	.155	.117	.107	.097	.040	.000	.000	.000	.000	.000	.000
34	.845	.720	.546	.466	.452	.276	.240	.224	.208	.165	.123	.113	.103	.042	.000	.000	.000	.000	.000	.000
35	.853	.732	.558	.478	.464	.288	.252	.236	.220	.175	.129	.119	.109	.044	.000	.000	.000	.000	.000	.000
36	.861	.742	.573	.490	.476	.302	.264	.248	.232	.185	.135	.125	.115	.046	.000	.000	.000	.000	.000	.000
37	.869	.752	.587	.504	.488	.314	.276	.260	.244	.196	.141	.131	.121	.048	.000	.000	.000	.000	.000	.000
38	.875	.762	.599	.518	.502	.331	.288	.272	.256	.206	.147	.137	.127	.050	.000	.000	.000	.000	.000	.000
39	.881	.772	.611	.532	.516	.347	.303	.284	.268	.216	.153	.143	.133	.052	.000	.000	.000	.000	.000	.000
40	.887	.782	.623	.544	.530	.363	.315	.294	.280	.226	.159	.149	.139	.054	.000	.000	.000	.000	.000	.000

TOTAL OBSERVATIONS 496

TABLE 5. 2.a. P(W < W\*) I CONSECUTIVE LAUNCH OPPORTUNITIES IN J PERIODS (W\* = 16 M/SEC).  
BASED ON MAXIMUM WIND SPEEDS IN THE 10-15 KM LAYER OVER CAPE KENNEDY, FLORIDA.  
PERIOD OF RECORD JANUARY 1956 - DECEMBER 1963.

CAPE KENNEDY, FLORIDA MAY  
SPEEDS LESS THAN 015 MPS

P ( I SUCCESSES IN J PERIODS )

	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
1	.135																			
2	.183	.095																		
3	.224	.131	.075																	
4	.264	.159	.101	.060																
5	.302	.188	.121	.085	.048															
6	.337	.218	.143	.101	.075	.036														
7	.367	.246	.167	.119	.091	.054	.030													
8	.395	.270	.188	.143	.107	.067	.044	.026												
9	.423	.292	.208	.163	.133	.077	.054	.038	.022											
10	.452	.317	.224	.181	.155	.099	.065	.046	.032	.018										
11	.478	.341	.244	.196	.171	.119	.087	.054	.038	.026	.014									
12	.504	.365	.264	.214	.183	.133	.107	.075	.044	.032	.020	.010								
13	.530	.389	.284	.232	.202	.143	.119	.095	.063	.038	.026	.014	.006							
14	.554	.415	.304	.252	.220	.155	.127	.105	.083	.056	.032	.018	.010	.002						
15	.579	.442	.327	.270	.242	.169	.137	.109	.093	.079	.050	.022	.014	.004	.000					
16	.603	.466	.349	.290	.260	.190	.147	.115	.097	.089	.075	.038	.018	.006	.000	.000				
17	.627	.490	.369	.310	.280	.206	.165	.121	.103	.093	.085	.063	.034	.008	.000	.000	.000			
18	.649	.516	.389	.331	.300	.224	.181	.135	.109	.099	.089	.073	.058	.022	.000	.000	.000	.000		
19	.669	.540	.413	.347	.323	.242	.200	.149	.121	.105	.095	.077	.069	.046	.010	.000	.000	.000	.000	
20	.688	.565	.438	.365	.339	.264	.218	.165	.131	.117	.101	.083	.073	.056	.032	.008	.000	.000	.000	.000
21	.702	.587	.462	.385	.355	.278	.242	.181	.143	.127	.113	.089	.079	.060	.042	.028	.006	.000	.000	.000
22	.716	.605	.486	.403	.373	.292	.256	.206	.157	.139	.123	.101	.085	.065	.046	.038	.024	.004	.000	.000
23	.728	.625	.508	.421	.389	.313	.270	.220	.179	.153	.135	.111	.097	.069	.050	.042	.034	.020	.002	.000
24	.740	.643	.532	.440	.403	.327	.284	.234	.192	.175	.149	.123	.107	.077	.054	.046	.038	.030	.016	.000
25	.752	.661	.554	.450	.417	.345	.298	.248	.204	.188	.171	.137	.119	.085	.060	.050	.042	.034	.026	.010
26	.764	.673	.579	.480	.433	.361	.315	.262	.216	.200	.183	.159	.133	.095	.069	.054	.046	.038	.030	.018
27	.776	.690	.595	.506	.452	.377	.327	.278	.228	.212	.196	.171	.155	.109	.077	.060	.050	.042	.034	.022
28	.788	.702	.611	.522	.478	.395	.341	.292	.242	.224	.208	.183	.167	.131	.089	.067	.056	.046	.038	.026
29	.798	.716	.623	.538	.494	.423	.353	.308	.254	.238	.220	.196	.179	.143	.111	.075	.063	.052	.042	.030
30	.808	.728	.637	.550	.510	.442	.375	.323	.268	.250	.234	.208	.192	.155	.123	.093	.071	.058	.046	.034
31	.819	.740	.651	.565	.524	.460	.391	.343	.280	.264	.246	.222	.204	.167	.137	.103	.087	.067	.052	.038
32	.829	.752	.665	.579	.538	.478	.407	.361	.294	.276	.260	.236	.216	.179	.151	.115	.097	.081	.058	.042
33	.837	.766	.679	.593	.552	.494	.425	.379	.308	.288	.272	.252	.228	.192	.163	.129	.109	.091	.069	.048
34	.845	.777	.690	.605	.571	.510	.442	.401	.325	.300	.284	.266	.242	.204	.175	.141	.123	.103	.077	.056
35	.853	.788	.712	.617	.585	.530	.460	.421	.345	.313	.296	.280	.256	.216	.188	.151	.137	.117	.087	.065
36	.861	.798	.726	.629	.599	.544	.484	.444	.363	.329	.308	.292	.272	.228	.200	.161	.147	.133	.097	.075
37	.869	.806	.742	.641	.613	.558	.500	.474	.383	.343	.323	.304	.286	.242	.212	.171	.157	.143	.111	.087
38	.875	.817	.756	.655	.627	.573	.516	.492	.413	.359	.337	.317	.300	.254	.226	.181	.167	.153	.119	.103
39	.881	.827	.770	.669	.641	.587	.532	.510	.431	.387	.353	.329	.313	.270	.238	.194	.177	.163	.127	.109
40	.887	.835	.784	.685	.653	.603	.548	.526	.450	.407	.377	.343	.325	.282	.256	.204	.190	.173	.135	.117

TOTAL OBSERVATIONS 496

TABLE 5. 2.b. P(W < W\*) I LAUNCH OPPORTUNITIES IN J PERIODS (W\* = 15 M/SEC).  
BASED ON MAXIMUM WIND SPEEDS IN THE 10-15 KM LAYER OVER CAPE KENNEDY, FLORIDA.  
PERIOD OF RECORD JANUARY 1956 - DECEMBER 1963.

CAPE KENNEDY, FLORIDA MAY  
SPEEDS LESS THAN 20 MPS

PC ( I CONSECUTIVE SUCCESSSES IN J PERIODS )

	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
1	.266																			
2	.341	.194																		
3	.393	.244	.149																	
4	.440	.294	.193	.121																
5	.484	.333	.218	.141	.107															
6	.526	.369	.254	.159	.125	.093														
7	.565	.403	.284	.177	.141	.109	.081													
8	.597	.438	.313	.196	.157	.123	.097	.067												
9	.625	.468	.343	.210	.173	.137	.111	.079	.056											
10	.649	.498	.371	.226	.190	.151	.125	.091	.069	.044										
11	.671	.522	.397	.244	.204	.165	.139	.103	.081	.056	.036									
12	.694	.544	.421	.264	.220	.181	.153	.115	.093	.067	.042	.030								
13	.712	.567	.444	.284	.238	.196	.169	.127	.105	.077	.048	.036	.024							
14	.730	.589	.466	.304	.256	.212	.188	.141	.117	.087	.054	.042	.030	.018						
15	.748	.609	.488	.325	.274	.228	.204	.155	.131	.097	.060	.048	.036	.022	.014					
16	.764	.629	.510	.347	.292	.244	.220	.171	.145	.109	.067	.054	.042	.026	.018	.010				
17	.780	.649	.530	.369	.310	.260	.236	.183	.161	.121	.075	.060	.048	.030	.022	.014	.006			
18	.796	.667	.550	.391	.329	.276	.252	.196	.177	.135	.083	.069	.054	.034	.026	.018	.010	.002		
19	.813	.685	.571	.413	.347	.294	.268	.208	.190	.149	.093	.077	.063	.038	.030	.022	.014	.004	.000	
20	.827	.700	.591	.435	.365	.310	.284	.220	.202	.163	.103	.087	.071	.044	.034	.026	.018	.006	.000	.000
21	.839	.714	.609	.458	.383	.327	.304	.234	.214	.173	.113	.097	.081	.050	.040	.030	.022	.008	.000	.000
22	.851	.726	.625	.478	.401	.343	.321	.248	.228	.183	.123	.107	.091	.054	.046	.036	.026	.010	.000	.000
23	.863	.738	.641	.496	.417	.359	.337	.264	.242	.194	.131	.117	.101	.067	.054	.042	.030	.012	.000	.000
24	.875	.750	.655	.514	.433	.375	.353	.278	.258	.208	.141	.127	.111	.075	.063	.050	.034	.014	.000	.000
25	.887	.762	.669	.532	.448	.391	.369	.292	.274	.222	.151	.135	.121	.083	.071	.058	.040	.016	.000	.000
26	.897	.774	.683	.550	.462	.407	.385	.306	.288	.234	.163	.143	.131	.091	.079	.057	.046	.020	.000	.000
27	.907	.784	.698	.569	.476	.423	.401	.321	.302	.250	.175	.153	.139	.099	.087	.075	.052	.024	.002	.000
28	.917	.794	.712	.587	.490	.440	.417	.335	.317	.264	.188	.163	.149	.107	.095	.083	.058	.028	.004	.002
29	.927	.804	.724	.605	.504	.456	.433	.349	.331	.278	.200	.173	.159	.117	.103	.091	.065	.032	.006	.004
30	.938	.815	.736	.621	.518	.472	.450	.363	.345	.292	.212	.183	.169	.127	.113	.099	.071	.036	.008	.006
31	.948	.825	.746	.633	.530	.488	.466	.377	.359	.306	.224	.194	.179	.137	.121	.109	.077	.040	.010	.008
32	.954	.835	.756	.645	.542	.502	.482	.391	.373	.321	.236	.204	.190	.147	.133	.119	.083	.044	.012	.010
33	.960	.845	.766	.657	.554	.516	.496	.405	.387	.335	.248	.214	.200	.157	.143	.129	.089	.048	.014	.012
34	.966	.853	.776	.669	.565	.532	.510	.419	.401	.349	.260	.224	.210	.167	.153	.139	.093	.052	.016	.014
35	.972	.861	.786	.681	.575	.546	.526	.433	.415	.363	.272	.234	.220	.177	.163	.149	.101	.056	.018	.016
36	.974	.869	.796	.694	.585	.558	.542	.450	.429	.377	.284	.244	.230	.188	.173	.159	.107	.060	.020	.018
37	.976	.875	.806	.706	.597	.571	.556	.466	.444	.391	.296	.254	.240	.198	.183	.169	.113	.065	.022	.020
38	.978	.881	.817	.718	.609	.585	.569	.482	.458	.405	.308	.264	.250	.208	.194	.179	.119	.069	.024	.022
39	.980	.887	.827	.730	.621	.599	.583	.498	.472	.419	.321	.274	.260	.218	.204	.190	.125	.073	.026	.024
40	.982	.893	.837	.742	.633	.613	.597	.514	.486	.433	.333	.284	.270	.228	.214	.200	.131	.077	.028	.026

TOTAL OBSERVATIONS 496

TABLE 5. 3.2. P(W < W\*) I CONSECUTIVE LAUNCH OPPORTUNITIES IN J PERIODS (W\* = 20 M/SEC).  
BASED ON MAXIMUM WIND SPEEDS IN THE 10-15 KM LAYER OVER CAPE KENNEDY, FLORIDA.

CAPE KENNEDY, FLORIDA MAY  
SPEEDS LESS THAN 20 M/S

P ( I < W ) IN J PERIODS )

J	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
1	.266																			
2	.341	.194																		
3	.393	.266	.149																	
4	.440	.310	.220	.121																
5	.484	.353	.260	.170	.107															
6	.526	.391	.300	.210	.149	.093														
7	.565	.433	.337	.236	.148	.143	.081													
8	.597	.472	.381	.264	.208	.167	.133	.067												
9	.625	.504	.423	.302	.230	.188	.153	.117	.056											
10	.649	.528	.470	.337	.262	.204	.170	.135	.107	.048										
11	.671	.552	.500	.383	.296	.226	.192	.157	.123	.097	.036									
12	.694	.575	.528	.419	.335	.256	.210	.173	.143	.113	.083	.030								
13	.712	.601	.552	.450	.373	.284	.238	.192	.155	.133	.093	.079	.024							
14	.730	.621	.581	.490	.409	.323	.260	.216	.171	.146	.111	.085	.075	.018						
15	.748	.641	.601	.524	.450	.357	.292	.238	.192	.161	.121	.099	.079	.069	.014					
16	.764	.663	.621	.550	.488	.399	.321	.266	.214	.181	.133	.109	.089	.073	.065	.010				
17	.780	.679	.645	.573	.520	.444	.357	.294	.232	.206	.151	.119	.101	.079	.069	.060	.006			
18	.796	.694	.667	.597	.540	.486	.405	.323	.252	.224	.175	.135	.111	.091	.073	.065	.056	.002		
19	.813	.706	.683	.625	.563	.506	.456	.371	.272	.244	.198	.155	.127	.101	.083	.069	.060	.050	.000	
20	.827	.720	.696	.647	.587	.528	.480	.423	.315	.264	.216	.175	.149	.115	.091	.079	.065	.054	.044	.000
21	.839	.732	.712	.663	.607	.552	.504	.452	.369	.296	.234	.194	.169	.137	.103	.087	.075	.058	.048	.040
22	.851	.742	.724	.683	.623	.573	.530	.478	.405	.341	.260	.210	.188	.157	.123	.099	.083	.069	.052	.044
23	.863	.752	.734	.700	.643	.589	.554	.508	.438	.371	.300	.232	.202	.177	.141	.117	.095	.075	.063	.048
24	.875	.762	.744	.712	.659	.611	.575	.536	.476	.397	.329	.264	.224	.192	.161	.133	.113	.085	.069	.058
25	.887	.772	.754	.722	.673	.627	.590	.560	.514	.429	.353	.288	.252	.214	.177	.149	.129	.099	.079	.065
26	.897	.782	.764	.732	.683	.643	.617	.589	.544	.470	.381	.310	.274	.238	.202	.163	.143	.115	.093	.073
27	.907	.792	.774	.742	.694	.653	.637	.611	.575	.500	.425	.333	.296	.254	.230	.183	.155	.129	.109	.087
28	.917	.802	.784	.752	.704	.663	.647	.633	.601	.536	.452	.379	.315	.274	.246	.210	.173	.141	.123	.103
29	.927	.813	.794	.762	.714	.673	.657	.645	.627	.567	.490	.407	.353	.290	.264	.226	.198	.161	.135	.117
30	.938	.823	.804	.772	.724	.683	.667	.655	.643	.590	.522	.446	.383	.317	.280	.244	.212	.185	.155	.129
31	.948	.833	.815	.782	.734	.694	.677	.665	.653	.623	.563	.480	.415	.343	.304	.262	.226	.198	.181	.147
32	.954	.847	.825	.792	.744	.704	.688	.675	.663	.630	.597	.522	.446	.369	.331	.284	.242	.210	.194	.175
33	.960	.855	.839	.802	.754	.714	.698	.685	.673	.651	.623	.567	.484	.397	.351	.313	.262	.222	.206	.188
34	.966	.863	.849	.817	.764	.724	.708	.696	.683	.663	.641	.601	.530	.431	.375	.335	.292	.236	.218	.202
35	.972	.869	.861	.827	.776	.734	.718	.706	.694	.675	.655	.629	.567	.476	.407	.357	.317	.264	.230	.214
36	.974	.879	.867	.841	.786	.744	.728	.716	.704	.688	.669	.647	.601	.514	.450	.389	.333	.288	.258	.226
37	.976	.887	.875	.851	.798	.754	.738	.726	.714	.700	.683	.663	.623	.554	.484	.433	.357	.304	.282	.232
38	.978	.891	.885	.861	.810	.766	.748	.736	.724	.712	.698	.679	.641	.583	.520	.472	.397	.325	.296	.278
39	.980	.895	.891	.875	.819	.780	.758	.746	.734	.722	.710	.694	.661	.605	.552	.504	.435	.361	.313	.294
40	.982	.899	.895	.887	.831	.790	.772	.756	.744	.732	.720	.706	.679	.629	.579	.534	.470	.397	.343	.308

TOTAL OBSERVATIONS 496

TABLE 5. 3.b. P(W < W\*) I LAUNCH OPPORTUNITIES IN J PERIODS (W\* = 20 M/SEC).  
BASED ON MAXIMUM WIND SPEEDS IN THE 10-15 KM LAYER OVER CAPE KENNEDY, FLORIDA.  
PERIOD OF RECORD JANUARY 1956 - DECEMBER 1963.

CAPE KENNEDY, FLORIDA MAY  
SPEEDS LESS THAN 025 MPS

PC ( I CONSECUTIVE SUCCESSES IN J PERIODS )

	I																			
J	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
1	.480																			
2	.575	.387																		
3	.635	.454	.323																	
4	.692	.522	.367	.284																
5	.744	.571	.413	.321	.254															
6	.784	.619	.460	.357	.282	.230														
7	.819	.657	.496	.393	.310	.254	.206													
8	.849	.694	.532	.431	.339	.286	.234	.179												
9	.875	.726	.567	.462	.369	.315	.262	.204	.157											
10	.895	.752	.599	.494	.399	.345	.290	.228	.173	.143										
11	.915	.776	.625	.524	.427	.375	.321	.252	.190	.159	.127									
12	.929	.796	.647	.552	.456	.407	.351	.274	.206	.175	.141	.113								
13	.942	.815	.669	.579	.482	.435	.383	.304	.224	.192	.155	.123	.105							
14	.954	.831	.688	.603	.508	.464	.415	.335	.242	.210	.169	.133	.115	.097						
15	.964	.845	.706	.627	.536	.490	.444	.361	.262	.224	.185	.143	.125	.107	.089					
16	.970	.859	.724	.647	.563	.520	.472	.389	.282	.244	.202	.155	.135	.117	.099	.081				
17	.974	.873	.742	.667	.589	.548	.502	.417	.302	.264	.220	.167	.147	.127	.109	.089	.075			
18	.978	.885	.760	.688	.611	.575	.532	.444	.323	.274	.238	.181	.159	.139	.119	.097	.083	.069		
19	.980	.897	.776	.704	.633	.601	.560	.478	.345	.304	.256	.196	.173	.151	.131	.105	.091	.077	.063	
20	.982	.909	.788	.720	.653	.623	.587	.508	.367	.331	.274	.210	.188	.165	.143	.115	.099	.085	.071	.056
21	.984	.919	.800	.732	.669	.643	.613	.536	.389	.353	.294	.224	.202	.179	.157	.125	.109	.093	.079	.063
22	.986	.929	.813	.742	.681	.663	.633	.563	.411	.375	.315	.240	.216	.194	.171	.137	.119	.103	.087	.069
23	.988	.934	.825	.752	.692	.675	.653	.587	.431	.397	.335	.256	.232	.204	.185	.149	.131	.113	.097	.075
24	.990	.946	.837	.762	.702	.688	.669	.609	.450	.419	.355	.272	.248	.224	.200	.161	.143	.125	.107	.081
25	.992	.954	.849	.772	.712	.698	.681	.625	.468	.439	.375	.284	.264	.240	.214	.173	.155	.137	.119	.087
26	.994	.962	.861	.782	.722	.708	.694	.641	.482	.454	.393	.304	.280	.256	.228	.185	.167	.149	.131	.095
27	.996	.968	.873	.792	.732	.718	.704	.655	.496	.472	.409	.319	.296	.272	.242	.198	.179	.161	.143	.103
28	.998	.974	.885	.802	.742	.728	.714	.669	.510	.484	.423	.333	.310	.284	.256	.210	.192	.173	.155	.111
29	1.00	.980	.893	.813	.752	.738	.724	.681	.524	.500	.434	.347	.325	.302	.270	.222	.204	.185	.167	.119
30	1.00	.986	.901	.823	.762	.748	.734	.694	.538	.514	.450	.361	.339	.317	.282	.234	.216	.198	.179	.127
31	1.00	.990	.909	.831	.772	.758	.744	.706	.550	.528	.462	.375	.353	.331	.294	.244	.228	.210	.192	.135
32	1.00	.992	.915	.839	.782	.770	.754	.718	.563	.547	.474	.389	.367	.345	.306	.254	.238	.222	.204	.143
33	1.00	.994	.921	.845	.792	.780	.766	.730	.575	.554	.486	.403	.381	.359	.319	.264	.248	.232	.216	.151
34	1.00	.996	.925	.851	.800	.790	.774	.742	.587	.567	.498	.417	.395	.373	.331	.274	.258	.242	.226	.159
35	1.00	.998	.929	.857	.808	.798	.784	.754	.601	.579	.510	.431	.409	.387	.343	.284	.268	.252	.236	.167
36	1.00	1.00	.933	.863	.817	.806	.796	.766	.613	.593	.524	.446	.423	.401	.355	.294	.278	.262	.246	.175
37	1.00	1.00	.938	.869	.825	.815	.804	.774	.625	.607	.536	.460	.438	.415	.367	.304	.288	.272	.256	.183
38	1.00	1.00	.942	.875	.831	.823	.813	.782	.637	.619	.548	.474	.452	.429	.379	.315	.298	.282	.266	.192
39	1.00	1.00	.946	.881	.837	.829	.821	.790	.647	.631	.560	.484	.466	.444	.391	.325	.308	.292	.276	.200
40	1.00	1.00	.950	.887	.843	.835	.827	.800	.657	.643	.571	.502	.480	.458	.403	.335	.319	.302	.286	.208

TOTAL OBSERVATIONS 496

TABLE 5. 4.a. P(W < W\*) I CONSECUTIVE LAUNCH OPPORTUNITIES IN J PERIODS (W\* = 25 M/SEC).  
BASED ON MAXIMUM WIND SPEEDS IN THE 10-15 KM LAYER OVER CAPE KENNEDY, FLORIDA.  
PERIOD OF RECORD JANUARY 1956 - DECEMBER 1963.

CAPE KENNEDY, FLORIDA MAY  
SPEEDS LESS THAN 025 M/S

P ( I SUCCESSES IN J PERIODS )

	I																			
J	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
1	.480																			
2	.575	.387																		
3	.635	.492	.323																	
4	.692	.542	.425	.284																
5	.744	.591	.478	.383	.254															
6	.784	.645	.520	.438	.345	.230														
7	.819	.690	.575	.474	.403	.321	.206													
8	.849	.726	.621	.524	.440	.383	.294	.179												
9	.875	.758	.653	.573	.486	.423	.357	.266	.157											
10	.895	.788	.690	.601	.532	.472	.397	.333	.232	.143										
11	.915	.808	.726	.635	.554	.522	.450	.375	.298	.210	.127									
12	.929	.833	.746	.675	.585	.544	.508	.427	.345	.272	.185	.113								
13	.942	.853	.770	.700	.625	.575	.530	.494	.397	.321	.246	.159	.105							
14	.954	.867	.794	.726	.649	.613	.560	.516	.474	.373	.290	.224	.137	.097						
15	.964	.883	.817	.750	.671	.637	.601	.546	.500	.456	.339	.268	.200	.121	.089					
16	.970	.903	.835	.776	.692	.659	.625	.589	.532	.484	.425	.313	.246	.179	.107	.081				
17	.974	.917	.861	.798	.716	.677	.647	.615	.579	.516	.456	.401	.286	.230	.159	.093	.075			
18	.978	.929	.881	.825	.738	.698	.663	.639	.607	.567	.498	.438	.373	.268	.206	.141	.085	.069		
19	.980	.944	.897	.843	.766	.716	.681	.655	.633	.590	.540	.472	.409	.357	.244	.183	.127	.079	.063	
20	.982	.954	.915	.857	.788	.742	.698	.671	.649	.627	.577	.526	.440	.399	.329	.224	.167	.115	.073	.056
21	.984	.960	.933	.871	.806	.762	.722	.688	.665	.643	.603	.549	.492	.429	.379	.304	.204	.157	.103	.065
22	.986	.966	.944	.891	.823	.778	.742	.712	.681	.659	.617	.597	.538	.480	.413	.357	.278	.192	.147	.087
23	.988	.972	.952	.903	.849	.792	.756	.732	.704	.675	.631	.611	.571	.528	.462	.399	.327	.262	.181	.129
24	.990	.978	.960	.913	.869	.813	.770	.744	.728	.700	.645	.625	.587	.560	.512	.448	.375	.308	.248	.163
25	.992	.982	.968	.921	.889	.829	.784	.756	.742	.724	.667	.639	.603	.577	.546	.498	.421	.365	.292	.228
26	.994	.986	.974	.929	.901	.853	.796	.768	.752	.740	.692	.661	.623	.593	.560	.538	.468	.411	.355	.272
27	.996	.990	.980	.935	.913	.867	.821	.780	.762	.750	.710	.688	.645	.615	.575	.554	.510	.456	.403	.337
28	.998	.994	.986	.942	.921	.885	.831	.806	.772	.760	.720	.708	.675	.635	.597	.569	.532	.496	.446	.387
29	1.00	.996	.992	.950	.920	.897	.847	.819	.794	.770	.730	.718	.698	.669	.615	.593	.548	.522	.482	.429
30	1.00	1.00	.994	.960	.940	.909	.855	.835	.806	.790	.740	.728	.708	.694	.651	.609	.575	.542	.508	.464
31	1.00	1.00	1.00	.966	.950	.921	.865	.843	.821	.804	.758	.738	.718	.704	.679	.645	.593	.569	.534	.488
32	1.00	1.00	1.00	.978	.958	.931	.873	.853	.827	.810	.774	.754	.728	.714	.692	.675	.629	.585	.563	.520
33	1.00	1.00	1.00	.984	.972	.940	.881	.865	.833	.825	.788	.772	.744	.724	.704	.688	.663	.617	.579	.552
34	1.00	1.00	1.00	.988	.980	.956	.889	.873	.843	.831	.794	.786	.762	.740	.716	.700	.677	.651	.609	.573
35	1.00	1.00	1.00	.990	.986	.968	.905	.881	.851	.830	.800	.792	.776	.758	.734	.712	.692	.663	.645	.603
36	1.00	1.00	1.00	.992	.988	.976	.923	.893	.859	.845	.808	.798	.784	.770	.754	.730	.706	.675	.657	.639
37	1.00	1.00	1.00	.994	.990	.980	.938	.907	.873	.851	.815	.806	.792	.778	.764	.750	.726	.688	.669	.651
38	1.00	1.00	1.00	.996	.992	.984	.944	.923	.897	.863	.821	.813	.802	.786	.772	.760	.746	.708	.681	.663
39	1.00	1.00	1.00	.998	.994	.988	.950	.927	.907	.875	.833	.819	.810	.796	.782	.768	.756	.728	.702	.675
40	1.00	1.00	1.00	1.00	.996	.992	.956	.931	.913	.895	.845	.831	.817	.806	.792	.778	.764	.740	.722	.694

TOTAL OBSERVATIONS 446

TABLE 5. 4.b. P(W < W\*) I LAUNCH OPPORTUNITIES IN J PERIODS (W\* = 25 M/SEC).  
BASED ON MAXIMUM WIND SPEEDS IN THE 10-15 KM LAYER OVER CAPE KENNEDY, FLORIDA.

PERIOD OF RECORD JANUARY 1956 - DECEMBER 1963.



CAPE KENNEDY, FLORIDA MAY  
SPEEDS LESS THAN 030 MPS

PC ( I CONSECUTIVE SUCCESSES IN J PERIODS )

	I																			
J	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
1	.639																			
2	.718	.567																		
3	.772	.623	.516																	
4	.813	.677	.567	.474																
5	.843	.724	.617	.520	.435															
6	.871	.762	.667	.567	.478	.401														
7	.893	.794	.712	.613	.520	.438	.373													
8	.913	.821	.748	.661	.563	.474	.403	.351												
9	.929	.843	.780	.702	.607	.510	.433	.379	.331											
10	.946	.861	.806	.734	.651	.548	.464	.407	.359	.308										
11	.960	.875	.827	.762	.690	.587	.496	.435	.387	.335	.286									
12	.974	.889	.845	.784	.720	.625	.528	.466	.415	.361	.310	.266								
13	.986	.899	.861	.804	.746	.655	.560	.496	.446	.387	.335	.290	.246							
14	.992	.909	.875	.823	.768	.677	.593	.526	.476	.415	.359	.315	.270	.228						
15	.996	.919	.889	.839	.788	.698	.619	.556	.506	.444	.385	.339	.294	.250	.212					
16	1.00	.929	.903	.855	.806	.716	.643	.587	.536	.472	.411	.365	.319	.272	.232	.198				
17	1.00	.938	.917	.871	.825	.734	.667	.611	.567	.500	.438	.391	.345	.294	.252	.218	.183			
18	1.00	.946	.929	.885	.843	.750	.690	.633	.597	.528	.464	.417	.371	.319	.272	.238	.204	.169		
19	1.00	.952	.938	.899	.859	.766	.712	.655	.621	.556	.490	.444	.397	.343	.294	.258	.224	.188	.157	
20	1.00	.958	.946	.911	.875	.780	.732	.675	.643	.587	.516	.470	.423	.367	.317	.280	.244	.206	.175	.145
21	1.00	.964	.952	.919	.889	.796	.750	.696	.665	.613	.544	.496	.450	.391	.339	.302	.266	.224	.194	.161
22	1.00	.968	.958	.927	.903	.810	.766	.712	.685	.637	.573	.524	.476	.415	.361	.325	.288	.244	.212	.177
23	1.00	.972	.964	.933	.913	.825	.780	.726	.704	.661	.597	.552	.504	.440	.383	.347	.310	.264	.232	.194
24	1.00	.976	.968	.940	.923	.839	.794	.738	.718	.681	.619	.581	.532	.466	.405	.369	.333	.284	.252	.210
25	1.00	.980	.972	.946	.931	.849	.808	.750	.730	.700	.639	.605	.560	.492	.429	.391	.355	.304	.272	.226
26	1.00	.984	.976	.950	.940	.855	.823	.762	.742	.714	.657	.625	.589	.518	.454	.415	.377	.325	.292	.242
27	1.00	.988	.980	.954	.948	.861	.833	.774	.754	.728	.673	.643	.611	.544	.478	.440	.399	.345	.313	.258
28	1.00	.992	.984	.958	.952	.867	.841	.786	.766	.742	.688	.659	.629	.569	.502	.464	.421	.365	.333	.274
29	1.00	.996	.988	.962	.956	.873	.849	.796	.778	.756	.702	.675	.645	.587	.526	.488	.444	.385	.353	.290
30	1.00	1.00	.992	.966	.960	.879	.857	.804	.790	.770	.716	.690	.661	.601	.548	.512	.466	.405	.373	.306
31	1.00	1.00	.996	.970	.964	.885	.865	.813	.800	.782	.730	.704	.677	.615	.565	.534	.488	.425	.393	.323
32	1.00	1.00	1.00	.974	.968	.891	.873	.821	.808	.794	.742	.718	.692	.629	.579	.554	.508	.446	.413	.339
33	1.00	1.00	1.00	.978	.972	.897	.883	.829	.817	.804	.752	.730	.706	.643	.593	.571	.526	.464	.433	.355
34	1.00	1.00	1.00	.982	.976	.903	.893	.839	.825	.813	.762	.742	.718	.655	.607	.585	.544	.482	.452	.371
35	1.00	1.00	1.00	.984	.980	.909	.901	.849	.835	.821	.770	.752	.730	.665	.621	.599	.558	.500	.470	.387
36	1.00	1.00	1.00	.986	.984	.915	.907	.859	.845	.831	.780	.762	.742	.675	.633	.613	.571	.518	.488	.403
37	1.00	1.00	1.00	.988	.986	.921	.913	.865	.855	.841	.790	.772	.752	.685	.645	.625	.583	.534	.506	.419
38	1.00	1.00	1.00	.990	.988	.927	.919	.871	.863	.851	.800	.784	.764	.696	.657	.637	.593	.548	.524	.435
39	1.00	1.00	1.00	.992	.990	.931	.925	.877	.869	.859	.810	.794	.774	.706	.669	.649	.603	.560	.540	.452
40	1.00	1.00	1.00	.994	.992	.935	.931	.883	.875	.867	.821	.804	.784	.716	.683	.661	.613	.573	.552	.468

TOTAL OBSERVATIONS 496

TABLE 5. 5.a. P(W < W\*) I CONSECUTIVE LAUNCH OPPORTUNITIES IN J PERIODS (W\* = 30 M/SEC).  
BASED ON MAXIMUM WIND SPEEDS IN THE 10-15 KM LAYER OVER CAPE KENNEDY, FLORIDA.  
PERIOD OF RECORD JANUARY 1956 - DECEMBER 1963.

CAPE KENNEDY, FLORIDA MAY  
SPEEDS LESS THAN 030 MPS

P ( I SUCCESSES IN J PERIODS )

J	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
1	.639																			
2	.718	.567																		
3	.772	.645	.516																	
4	.813	.708	.595	.474																
5	.843	.756	.665	.554	.435															
6	.871	.790	.716	.629	.520	.401														
7	.893	.819	.756	.679	.603	.484	.373													
8	.913	.841	.792	.718	.655	.571	.452	.351												
9	.929	.861	.819	.758	.694	.625	.536	.429	.331											
10	.946	.873	.841	.788	.738	.665	.591	.512	.411	.308										
11	.960	.887	.855	.815	.770	.714	.627	.573	.490	.393	.286									
12	.974	.897	.871	.831	.798	.752	.675	.609	.554	.468	.373	.266								
13	.986	.909	.883	.847	.819	.782	.716	.653	.593	.530	.448	.357	.246							
14	.992	.925	.897	.859	.837	.808	.746	.692	.635	.571	.508	.433	.341	.229						
15	.996	.940	.911	.875	.849	.829	.780	.716	.675	.611	.550	.490	.421	.325	.212					
16	1.00	.948	.927	.891	.865	.841	.810	.752	.696	.655	.599	.530	.474	.407	.310	.198				
17	1.00	.960	.935	.911	.879	.859	.825	.786	.730	.675	.641	.563	.514	.456	.393	.300	.183			
18	1.00	.964	.952	.921	.899	.873	.847	.798	.770	.708	.661	.619	.546	.494	.438	.385	.290	.169		
19	1.00	.968	.958	.940	.907	.895	.861	.823	.784	.750	.694	.637	.609	.526	.472	.425	.379	.278	.157	
20	1.00	.972	.962	.950	.925	.903	.885	.837	.810	.764	.740	.667	.627	.595	.500	.458	.417	.371	.268	.145
21	1.00	.976	.966	.956	.935	.921	.893	.863	.825	.790	.756	.720	.653	.615	.569	.482	.448	.411	.363	.256
22	1.00	.980	.970	.962	.940	.933	.911	.875	.851	.804	.782	.740	.706	.639	.593	.546	.468	.442	.405	.353
23	1.00	.984	.974	.966	.946	.938	.927	.891	.867	.831	.794	.770	.730	.688	.621	.565	.534	.458	.435	.399
24	1.00	.988	.978	.970	.950	.944	.933	.909	.883	.840	.819	.782	.762	.714	.671	.589	.550	.522	.452	.429
25	1.00	.992	.982	.974	.954	.948	.942	.917	.901	.865	.837	.806	.774	.750	.700	.635	.573	.536	.516	.446
26	1.00	.996	.986	.978	.958	.952	.946	.929	.909	.885	.849	.827	.798	.762	.742	.661	.617	.556	.530	.510
27	1.00	.998	.992	.982	.962	.956	.950	.935	.923	.895	.867	.839	.823	.788	.752	.706	.641	.601	.548	.524
28	1.00	1.00	.996	.988	.966	.960	.954	.942	.931	.911	.875	.857	.835	.819	.776	.718	.692	.617	.593	.542
29	1.00	1.00	1.00	.994	.972	.964	.958	.948	.938	.919	.893	.865	.853	.831	.810	.744	.706	.665	.607	.589
30	1.00	1.00	1.00	1.00	.980	.970	.962	.954	.944	.927	.897	.885	.861	.844	.823	.784	.732	.683	.651	.601
31	1.00	1.00	1.00	1.00	.986	.980	.968	.960	.950	.935	.901	.891	.881	.857	.841	.798	.774	.714	.667	.643
32	1.00	1.00	1.00	1.00	.988	.984	.980	.966	.958	.944	.905	.897	.887	.877	.849	.819	.786	.760	.698	.659
33	1.00	1.00	1.00	1.00	.990	.986	.982	.980	.964	.954	.911	.903	.893	.883	.869	.829	.804	.774	.750	.688
34	1.00	1.00	1.00	1.00	.992	.988	.984	.982	.980	.960	.923	.907	.901	.889	.875	.851	.813	.794	.766	.742
35	1.00	1.00	1.00	1.00	.994	.990	.986	.984	.982	.978	.931	.917	.905	.899	.881	.859	.833	.804	.786	.758
36	1.00	1.00	1.00	1.00	.996	.992	.988	.986	.984	.980	.954	.923	.915	.903	.893	.867	.841	.823	.796	.778
37	1.00	1.00	1.00	1.00	.998	.994	.990	.988	.986	.982	.958	.946	.921	.913	.897	.883	.849	.831	.815	.788
38	1.00	1.00	1.00	1.00	1.00	.996	.992	.990	.988	.984	.962	.948	.946	.919	.907	.891	.863	.841	.823	.804
39	1.00	1.00	1.00	1.00	1.00	1.00	.994	.992	.990	.986	.966	.950	.948	.946	.913	.905	.869	.859	.833	.815
40	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.994	.992	.988	.970	.952	.950	.948	.944	.909	.885	.865	.855	.825

TOTAL OBSERVATIONS 496

TABLE 5.5.b. P(N < W\*) I LAUNCH OPPORTUNITIES IN J PERIODS (W\* = 30 M/SEC).  
BASED ON MAXIMUM WIND SPEEDS IN THE 10-15 KM LAYER OVER CAPE KENNEDY, FLORIDA.

PERIOD OF RECORD JANUARY 1956 - DECEMBER 1963.

CAPF KENNEDY, FLORIDA MAY  
SPEEDS LESS THAN 035 MPS

PC ( 1 CONSECUTIVE SUCCESSES IN J PERIODS )

	I																			
J	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
1	.726																			
2	.790	.665																		
3	.833	.720	.615																	
4	.865	.776	.661	.575																
5	.893	.815	.710	.619	.536															
6	.917	.845	.758	.665	.575	.502														
7	.938	.873	.796	.712	.615	.536	.476													
8	.954	.897	.829	.758	.655	.573	.504	.456												
9	.966	.919	.857	.794	.696	.609	.534	.482	.438											
10	.976	.935	.881	.823	.736	.645	.565	.510	.464	.419										
11	.984	.952	.897	.849	.764	.681	.595	.538	.492	.444	.401									
12	.992	.966	.911	.867	.792	.718	.625	.567	.520	.470	.423	.385								
13	.996	.976	.925	.881	.815	.744	.655	.595	.548	.476	.448	.407	.369							
14	.998	.986	.938	.893	.835	.766	.685	.623	.577	.527	.472	.431	.389	.357						
15	1.00	.992	.948	.905	.851	.788	.710	.651	.605	.548	.496	.456	.411	.375	.347					
16	1.00	.996	.958	.917	.865	.810	.734	.677	.633	.575	.520	.480	.433	.395	.361	.341				
17	1.00	1.00	.966	.927	.879	.831	.758	.702	.659	.601	.544	.504	.456	.415	.377	.355	.335			
18	1.00	1.00	.972	.938	.893	.849	.782	.726	.685	.625	.569	.528	.478	.435	.393	.371	.349	.329		
19	1.00	1.00	.978	.946	.907	.867	.806	.750	.710	.649	.591	.552	.500	.456	.409	.387	.365	.343	.323	
20	1.00	1.00	.980	.952	.921	.883	.829	.774	.734	.673	.613	.575	.522	.476	.425	.403	.381	.359	.337	.317
21	1.00	1.00	.982	.958	.933	.901	.847	.798	.758	.696	.635	.597	.542	.496	.442	.419	.397	.375	.353	.331
22	1.00	1.00	.984	.962	.944	.917	.865	.817	.782	.718	.657	.619	.563	.516	.458	.435	.413	.391	.369	.347
23	1.00	1.00	.986	.966	.954	.931	.883	.833	.802	.740	.677	.641	.583	.536	.474	.452	.429	.407	.385	.363
24	1.00	1.00	.988	.970	.962	.944	.894	.849	.819	.758	.698	.663	.603	.556	.490	.468	.446	.423	.401	.379
25	1.00	1.00	.990	.974	.968	.956	.913	.865	.835	.774	.714	.683	.623	.577	.506	.484	.462	.440	.417	.395
26	1.00	1.00	.992	.978	.972	.964	.925	.881	.851	.788	.728	.700	.643	.597	.522	.500	.478	.456	.433	.411
27	1.00	1.00	.994	.982	.976	.970	.935	.895	.867	.807	.742	.714	.659	.617	.538	.516	.494	.472	.450	.427
28	1.00	1.00	.996	.986	.980	.974	.944	.907	.883	.817	.754	.728	.673	.633	.554	.532	.510	.488	.466	.444
29	1.00	1.00	.998	.990	.984	.978	.950	.919	.897	.831	.766	.742	.688	.647	.569	.548	.526	.504	.482	.460
30	1.00	1.00	1.00	.994	.988	.982	.954	.929	.909	.845	.778	.754	.702	.661	.581	.563	.542	.520	.498	.476
31	1.00	1.00	1.00	.998	.992	.986	.958	.940	.921	.857	.790	.766	.716	.675	.593	.575	.556	.536	.514	.492
32	1.00	1.00	1.00	1.00	.996	.990	.962	.948	.933	.867	.800	.778	.728	.690	.605	.587	.569	.550	.530	.508
33	1.00	1.00	1.00	1.00	.998	.994	.966	.956	.944	.879	.813	.788	.740	.704	.617	.599	.581	.563	.544	.524
34	1.00	1.00	1.00	1.00	1.00	.996	.970	.962	.952	.889	.823	.800	.750	.716	.629	.611	.593	.575	.556	.538
35	1.00	1.00	1.00	1.00	1.00	.998	.974	.968	.960	.899	.833	.815	.762	.726	.641	.623	.605	.587	.569	.550
36	1.00	1.00	1.00	1.00	1.00	1.00	.978	.972	.966	.907	.843	.825	.776	.738	.651	.635	.617	.599	.581	.563
37	1.00	1.00	1.00	1.00	1.00	1.00	.982	.976	.970	.915	.853	.835	.790	.752	.663	.645	.629	.611	.593	.575
38	1.00	1.00	1.00	1.00	1.00	1.00	.986	.980	.974	.919	.843	.845	.800	.766	.677	.657	.639	.623	.605	.587
39	1.00	1.00	1.00	1.00	1.00	1.00	.988	.984	.978	.923	.871	.855	.810	.778	.692	.671	.651	.633	.617	.599
40	1.00	1.00	1.00	1.00	1.00	1.00	.990	.988	.982	.927	.877	.863	.821	.788	.706	.685	.665	.645	.627	.611

TOTAL OBSERVATIONS 436

TABLE 5, 6, a, P(W < W\*) I CONSECUTIVE LAUNCH OPPORTUNITIES IN J PERIODS (W\* = 35 M/SEC).  
BASED ON MAXIMUM WIND SPEEDS IN THE 10-15 KM LAYER OVER CAPE KENNEDY, FLORIDA.

CAPE KENNEDY, FLORIDA MAY

SPEEDS LESS THAN 035 M/S

P ( I SUCCESSFUL J PERIODS )

I

J	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
1	.726																			
2	.790	.665																		
3	.833	.742	.615																	
4	.865	.790	.702	.575																
5	.893	.825	.758	.669	.536															
6	.917	.857	.794	.732	.635	.502														
7	.938	.883	.827	.772	.702	.603	.476													
8	.954	.909	.853	.806	.750	.665	.577	.456												
9	.966	.929	.879	.835	.786	.716	.641	.556	.434											
10	.976	.948	.897	.863	.815	.756	.694	.621	.538	.419										
11	.984	.962	.917	.881	.843	.788	.736	.675	.601	.518	.401									
12	.992	.972	.931	.895	.859	.823	.768	.724	.653	.583	.498	.385								
13	.996	.984	.944	.921	.883	.841	.806	.754	.706	.635	.560	.480	.369							
14	.998	.992	.956	.940	.897	.869	.827	.794	.736	.692	.611	.540	.462	.357						
15	1.00	.996	.966	.950	.919	.887	.857	.815	.778	.722	.669	.589	.520	.444	.347					
16	1.00	1.00	.974	.960	.929	.915	.879	.843	.800	.766	.702	.649	.567	.502	.427	.341				
17	1.00	1.00	.982	.970	.940	.925	.913	.869	.827	.790	.750	.683	.627	.546	.478	.417	.335			
18	1.00	1.00	.984	.980	.950	.935	.923	.909	.857	.815	.778	.734	.665	.607	.516	.466	.407	.329		
19	1.00	1.00	.986	.982	.964	.944	.933	.919	.905	.845	.804	.764	.720	.651	.573	.500	.452	.399	.323	
20	1.00	1.00	.988	.984	.968	.960	.940	.929	.917	.899	.835	.790	.752	.710	.621	.554	.478	.444	.391	.317
21	1.00	1.00	.990	.986	.972	.964	.956	.935	.927	.915	.893	.821	.780	.742	.683	.603	.528	.464	.438	.383
22	1.00	1.00	.992	.988	.976	.968	.960	.952	.933	.925	.911	.885	.810	.770	.722	.669	.573	.510	.454	.429
23	1.00	1.00	.994	.990	.980	.972	.964	.955	.948	.931	.921	.905	.881	.798	.754	.710	.639	.554	.494	.444
24	1.00	1.00	.996	.992	.984	.976	.968	.962	.956	.944	.927	.917	.901	.875	.782	.744	.679	.623	.536	.478
25	1.00	1.00	.998	.994	.988	.980	.972	.966	.960	.954	.938	.925	.911	.897	.865	.774	.714	.665	.607	.516
26	1.00	1.00	1.00	.996	.992	.984	.976	.970	.964	.958	.950	.933	.919	.909	.889	.859	.746	.700	.651	.587
27	1.00	1.00	1.00	1.00	.994	.990	.980	.974	.968	.962	.954	.948	.925	.917	.907	.881	.833	.732	.688	.633
28	1.00	1.00	1.00	1.00	1.00	.992	.988	.978	.972	.966	.958	.952	.942	.923	.915	.905	.853	.819	.724	.671
29	1.00	1.00	1.00	1.00	1.00	1.00	.990	.986	.976	.970	.962	.956	.946	.940	.921	.913	.881	.839	.813	.710
30	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.988	.984	.974	.966	.960	.950	.944	.938	.919	.893	.869	.831	.800
31	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.986	.982	.970	.964	.954	.948	.942	.935	.901	.887	.859	.819
32	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.984	.978	.968	.958	.952	.946	.940	.919	.897	.879	.849
33	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.982	.974	.962	.956	.950	.944	.925	.915	.889	.873
34	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.980	.966	.960	.954	.948	.931	.921	.905	.885
35	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.974	.964	.958	.952	.938	.927	.909	.901
36	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.998	.970	.962	.956	.944	.933	.913
37	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.996	.966	.960	.950	.940	.917
38	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.994	.964	.956	.946	.921
39	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.994	.960	.954	.925
40	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.992	.958	.933	.923

TOTAL OBSERVATIONS 496

TABLE 5. 6. b. P(W < W\*) I LAUNCH OPPORTUNITIES IN J PERIODS (W\* = 35 M/SEC).  
 BASED ON MAXIMUM WIND SPEEDS IN THE 10-15 KM LAYER OVER CAPE KENNEDY, FLORIDA.  
 PERIOD OF RECORD JANUARY 1956 - DECEMBER 1963.

CAPE KENNEDY, FLORIDA MAY  
SPEEDS LESS THAN 40 MPS

PC ( I CONSECUTIVE SUCCESSES IN J PERIODS )

	I																			
J	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
1	.808																			
2	.865	.756																		
3	.897	.802	.716																	
4	.917	.949	.762	.675																
5	.933	.881	.808	.714	.643															
6	.948	.905	.855	.752	.681	.613														
7	.962	.923	.887	.790	.720	.649	.599													
8	.974	.947	.907	.829	.758	.685	.625	.563												
9	.982	.954	.925	.851	.796	.722	.661	.591	.546											
10	.986	.968	.940	.867	.831	.758	.698	.619	.575	.528										
11	.990	.980	.954	.881	.853	.790	.734	.647	.603	.552	.514									
12	.994	.986	.968	.893	.867	.823	.766	.675	.631	.577	.538	.498								
13	.996	.990	.980	.905	.881	.843	.798	.702	.659	.601	.563	.520	.484							
14	.998	.994	.986	.917	.893	.859	.827	.728	.685	.625	.587	.542	.506	.470						
15	1.00	.994	.990	.927	.905	.875	.847	.750	.712	.647	.611	.565	.528	.492	.458					
16	1.00	.998	.994	.933	.917	.889	.863	.772	.734	.669	.633	.587	.550	.514	.480	.446				
17	1.00	1.00	.996	.940	.927	.903	.879	.792	.756	.688	.655	.607	.573	.536	.502	.468	.433			
18	1.00	1.00	.998	.946	.933	.917	.893	.810	.778	.706	.673	.627	.593	.558	.524	.490	.452	.425		
19	1.00	1.00	1.00	.952	.940	.929	.907	.829	.798	.724	.692	.643	.613	.579	.546	.512	.470	.444	.417	
20	1.00	1.00	1.00	.958	.946	.935	.921	.847	.817	.747	.710	.659	.629	.599	.567	.534	.488	.462	.433	.411
21	1.00	1.00	1.00	.964	.952	.942	.933	.863	.835	.767	.728	.675	.645	.615	.587	.554	.506	.480	.450	.427
22	1.00	1.00	1.00	.968	.956	.948	.940	.879	.851	.776	.748	.692	.661	.631	.603	.575	.524	.498	.466	.444
23	1.00	1.00	1.00	.972	.964	.954	.946	.895	.867	.790	.766	.710	.677	.647	.619	.591	.542	.516	.482	.460
24	1.00	1.00	1.00	.976	.968	.960	.952	.907	.883	.804	.780	.728	.696	.663	.635	.607	.556	.534	.498	.476
25	1.00	1.00	1.00	.980	.972	.966	.958	.919	.899	.819	.794	.742	.714	.681	.651	.623	.571	.548	.514	.492
26	1.00	1.00	1.00	.984	.976	.970	.964	.931	.911	.833	.808	.754	.730	.700	.669	.639	.585	.563	.526	.508
27	1.00	1.00	1.00	.988	.980	.974	.968	.944	.923	.847	.823	.768	.744	.716	.688	.657	.599	.577	.538	.520
28	1.00	1.00	1.00	.992	.984	.978	.972	.956	.935	.857	.837	.780	.758	.732	.704	.675	.615	.591	.550	.532
29	1.00	1.00	1.00	.996	.988	.982	.976	.964	.948	.867	.851	.792	.772	.748	.720	.692	.631	.607	.563	.544
30	1.00	1.00	1.00	1.00	.992	.986	.980	.972	.958	.877	.861	.804	.784	.762	.738	.708	.647	.623	.577	.556
31	1.00	1.00	1.00	1.00	.996	.990	.984	.978	.966	.885	.871	.817	.796	.776	.754	.726	.663	.639	.591	.571
32	1.00	1.00	1.00	1.00	1.00	.994	.988	.982	.974	.893	.879	.827	.808	.788	.768	.744	.681	.655	.605	.585
33	1.00	1.00	1.00	1.00	1.00	.998	.992	.986	.980	.899	.887	.835	.821	.800	.782	.760	.700	.673	.619	.599
34	1.00	1.00	1.00	1.00	1.00	1.00	.996	.990	.984	.905	.895	.843	.829	.813	.794	.774	.718	.692	.635	.613
35	1.00	1.00	1.00	1.00	1.00	1.00	.998	.994	.988	.911	.901	.851	.837	.823	.804	.788	.736	.710	.651	.629
36	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.996	.992	.915	.907	.859	.845	.831	.813	.798	.752	.728	.667	.645
37	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.998	.994	.919	.913	.865	.853	.839	.819	.806	.766	.746	.683	.661
38	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.996	.923	.917	.871	.861	.847	.825	.813	.776	.760	.700	.677
39	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.998	.927	.921	.877	.867	.855	.831	.819	.784	.772	.714	.694
40	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.931	.925	.883	.873	.863	.837	.825	.792	.780	.724	.708

TOTAL OBSERVATIONS 496

TABLE 5.7.a. P(W < W<sub>0</sub>) I CONSECUTIVE LAUNCH OPPORTUNITIES IN J PERIODS (W<sub>0</sub> = 40 M/SEC).  
BASED ON MAXIMUM WIND SPEEDS IN THE 10-15 KM LAYER OVER CAPE KENNEDY, FLORIDA.  
PERIOD OF RECORD JANUARY 1956 - DECEMBER 1963.

CAPE KENNEDY, FLORIDA MAY  
 SPFFDS LESS THAN 040 MPS

P ( I SUCCESSSES IN J PERIODS )

	I																			
J	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
1	.808																			
2	.965	.756																		
3	.897	.925	.716																	
4	.917	.869	.796	.675																
5	.933	.893	.851	.762	.643															
6	.948	.913	.877	.823	.738	.613														
7	.962	.929	.899	.851	.802	.716	.589													
8	.974	.946	.915	.877	.829	.786	.698	.563												
9	.982	.964	.931	.895	.855	.815	.770	.673	.546											
10	.986	.978	.954	.911	.873	.843	.798	.750	.659	.528										
11	.990	.982	.974	.938	.887	.863	.827	.782	.738	.637	.514									
12	.994	.986	.978	.964	.915	.877	.847	.813	.772	.722	.621	.498								
13	.996	.992	.982	.972	.942	.909	.859	.837	.802	.760	.708	.601	.484							
14	.998	.994	.990	.976	.954	.933	.893	.851	.829	.788	.750	.690	.583	.470						
15	1.00	.996	.992	.986	.958	.950	.913	.889	.845	.817	.778	.736	.671	.567	.458					
16	1.00	1.00	.994	.990	.968	.954	.931	.909	.885	.835	.808	.766	.720	.655	.550	.446				
17	1.00	1.00	1.00	.992	.974	.964	.938	.927	.907	.877	.829	.798	.754	.704	.639	.536	.433			
18	1.00	1.00	1.00	1.00	.978	.970	.950	.933	.923	.901	.873	.823	.788	.742	.668	.625	.518	.425		
19	1.00	1.00	1.00	1.00	.990	.974	.958	.946	.929	.917	.897	.869	.817	.778	.728	.675	.607	.504	.417	
20	1.00	1.00	1.00	1.00	.992	.988	.964	.954	.942	.925	.911	.893	.865	.808	.766	.720	.659	.591	.490	.411
21	1.00	1.00	1.00	1.00	.994	.990	.980	.960	.950	.938	.921	.907	.889	.861	.800	.758	.708	.645	.571	.482
22	1.00	1.00	1.00	1.00	.996	.992	.984	.976	.956	.946	.933	.919	.901	.887	.857	.794	.746	.700	.621	.563
23	1.00	1.00	1.00	1.00	.998	.994	.988	.980	.972	.952	.942	.931	.915	.897	.885	.853	.784	.738	.679	.611
24	1.00	1.00	1.00	1.00	1.00	.996	.992	.984	.976	.968	.948	.940	.929	.911	.893	.883	.845	.778	.718	.671
25	1.00	1.00	1.00	1.00	1.00	1.00	.994	.990	.980	.972	.964	.946	.938	.927	.907	.889	.877	.841	.758	.712
26	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.992	.988	.976	.968	.962	.944	.935	.925	.901	.885	.873	.823	.752
27	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.990	.986	.972	.966	.960	.942	.933	.919	.899	.881	.857	.815
28	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.988	.984	.970	.964	.958	.940	.927	.917	.897	.867	.847
29	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.986	.982	.968	.962	.956	.933	.925	.915	.887	.857
30	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.984	.980	.966	.960	.950	.931	.923	.909	.877
31	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.982	.978	.964	.954	.948	.929	.919	.901
32	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.980	.976	.958	.952	.946	.927	.911
33	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.978	.970	.956	.950	.944	.921
34	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.974	.966	.954	.948	.942
35	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.970	.962	.952	.946
36	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.966	.958	.950
37	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.962	.954
38	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.958
39	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
40	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00

TOTAL OBSERVATIONS 496

TABLE 5. 7.b. P(W < W\*) I LAUNCH OPPORTUNITIES IN J PERIODS (W\* = 40 M/SEC).  
 BASED ON MAXIMUM WIND SPEEDS IN THE 10-15 KM LAYER OVER CAPE KENNEDY, FLORIDA.  
 PERIOD OF RECORD JANUARY 1956 - DECEMBER 1963.

CAPE KENNEDY, FLORIDA MAY  
SPEEDS LESS THAN 045 MPH

PC ( 1 CONSECUTIVE SUCCESSSES IN J PERIODS )

J	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
1	.893																			
2	.940	.849																		
3	.956	.891	.810																	
4	.968	.931	.845	.780																
5	.974	.948	.879	.815	.750															
6	.980	.962	.913	.849	.782	.724														
7	.986	.972	.931	.883	.815	.750	.706													
8	.990	.980	.948	.917	.847	.776	.730	.692												
9	.992	.986	.960	.933	.879	.802	.754	.716	.677											
10	.994	.990	.972	.948	.909	.829	.778	.740	.702	.663										
11	.996	.992	.982	.960	.923	.853	.802	.764	.726	.685	.651									
12	.998	.994	.990	.972	.938	.875	.825	.788	.750	.708	.673	.639								
13	1.00	.996	.992	.982	.950	.889	.845	.810	.774	.730	.696	.661	.623							
14	1.00	.998	.994	.990	.962	.903	.863	.831	.796	.752	.718	.683	.645	.607						
15	1.00	1.00	.996	.992	.972	.917	.875	.849	.817	.772	.740	.706	.667	.629	.591					
16	1.00	1.00	.998	.994	.980	.931	.887	.867	.835	.790	.760	.728	.690	.651	.613	.575				
17	1.00	1.00	1.00	.996	.984	.944	.899	.879	.853	.806	.778	.748	.712	.673	.635	.597	.560			
18	1.00	1.00	1.00	.998	.988	.956	.911	.891	.871	.823	.794	.766	.732	.696	.657	.619	.583	.546		
19	1.00	1.00	1.00	1.00	.992	.962	.921	.903	.883	.836	.810	.782	.750	.716	.679	.641	.605	.569	.532	
20	1.00	1.00	1.00	1.00	.996	.968	.931	.915	.895	.855	.827	.798	.766	.734	.700	.663	.627	.591	.552	.520
21	1.00	1.00	1.00	1.00	1.00	.972	.938	.925	.907	.867	.843	.815	.782	.750	.718	.683	.649	.613	.573	.538
22	1.00	1.00	1.00	1.00	1.00	.976	.944	.935	.919	.879	.859	.831	.798	.766	.734	.702	.669	.635	.591	.556
23	1.00	1.00	1.00	1.00	1.00	.980	.950	.942	.929	.891	.871	.847	.815	.782	.750	.718	.688	.655	.613	.575
24	1.00	1.00	1.00	1.00	1.00	.982	.956	.948	.940	.903	.883	.863	.831	.798	.766	.734	.704	.673	.631	.593
25	1.00	1.00	1.00	1.00	1.00	.984	.962	.954	.946	.913	.895	.875	.847	.815	.782	.750	.720	.690	.647	.609
26	1.00	1.00	1.00	1.00	1.00	.986	.966	.960	.952	.923	.907	.887	.863	.831	.798	.766	.736	.706	.661	.623
27	1.00	1.00	1.00	1.00	1.00	.988	.970	.964	.958	.929	.917	.899	.877	.847	.815	.782	.752	.722	.675	.635
28	1.00	1.00	1.00	1.00	1.00	.990	.974	.968	.962	.935	.927	.911	.889	.865	.831	.798	.768	.738	.690	.647
29	1.00	1.00	1.00	1.00	1.00	.992	.978	.972	.966	.940	.933	.921	.903	.879	.849	.815	.784	.754	.704	.659
30	1.00	1.00	1.00	1.00	1.00	.994	.982	.976	.970	.944	.938	.931	.915	.893	.867	.833	.800	.770	.718	.671
31	1.00	1.00	1.00	1.00	1.00	.996	.986	.980	.974	.948	.942	.935	.925	.907	.883	.851	.819	.786	.732	.683
32	1.00	1.00	1.00	1.00	1.00	.998	.990	.984	.978	.952	.946	.940	.933	.919	.897	.871	.837	.804	.746	.696
33	1.00	1.00	1.00	1.00	1.00	.994	.988	.982	.976	.950	.944	.938	.927	.911	.887	.857	.823	.762	.708	
34	1.00	1.00	1.00	1.00	1.00	.992	.992	.986	.980	.954	.948	.942	.935	.921	.901	.877	.843	.778	.722	
35	1.00	1.00	1.00	1.00	1.00	1.00	.996	.990	.984	.958	.952	.946	.940	.929	.913	.893	.863	.796	.736	
36	1.00	1.00	1.00	1.00	1.00	1.00	.998	.994	.988	.962	.956	.950	.944	.938	.923	.905	.883	.815	.752	
37	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.996	.972	.966	.960	.954	.948	.942	.931	.917	.897	.833	.768	
38	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.998	.976	.970	.964	.958	.952	.946	.940	.925	.909	.849	.784	
39	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.980	.974	.968	.962	.956	.950	.944	.933	.919	.861	.798	
40	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.984	.978	.972	.966	.960	.954	.948	.942	.927	.869	.813	

TOTAL OBSERVATIONS 496

TABLE 5. 8.a. P(W < W\*) 1 CONSECUTIVE LAUNCH OPPORTUNITIES IN J PERIODS (W\* = 45 M/SEC).  
BASED ON MAXIMUM WIND SPEEDS IN THE 10-15 KM LAYER OVER CAPE KENNEDY, FLORIDA.  
PERIOD OF RECORD JANUARY 1956 - DECEMBER 1963.

CAPE KENNEDY, FLORIDA MAY  
 SPEEDS LESS THAN 45 MPH

P W < W\* I LAUNCH OPPORTUNITIES IN J PERIODS

	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
1	.893																			
2	.740	.849																		
3	.956	.919	.810																	
4	.968	.947	.895	.780																
5	.974	.967	.921	.877	.750															
6	.980	.968	.948	.905	.861	.724														
7	.986	.974	.960	.935	.899	.843	.706													
8	.990	.987	.988	.952	.921	.873	.827	.692												
9	.992	.988	.978	.962	.942	.907	.857	.817	.677											
10	.994	.990	.986	.974	.954	.933	.891	.847	.806	.663										
11	.996	.992	.988	.984	.968	.948	.925	.877	.839	.794	.651									
12	.998	.994	.990	.986	.980	.962	.944	.917	.865	.827	.786	.639								
13	1.00	.996	.992	.988	.984	.976	.956	.940	.911	.847	.821	.778	.623							
14	1.00	1.00	.994	.990	.986	.982	.972	.952	.935	.895	.839	.815	.766	.607						
15	1.00	1.00	1.00	.992	.988	.984	.980	.970	.948	.919	.891	.831	.808	.754	.591					
16	1.00	1.00	1.00	1.00	.990	.986	.982	.980	.968	.929	.917	.885	.825	.800	.742	.575				
17	1.00	1.00	1.00	1.00	1.00	.988	.984	.982	.980	.952	.927	.913	.881	.819	.792	.730	.560			
18	1.00	1.00	1.00	1.00	1.00	1.00	.986	.984	.982	.968	.948	.925	.909	.877	.813	.784	.720	.546		
19	1.00	1.00	1.00	1.00	1.00	1.00	.986	.984	.972	.946	.944	.921	.907	.873	.806	.778	.710	.532		
20	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.986	.976	.970	.964	.940	.917	.905	.869	.800	.772	.698	.520	
21	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.980	.974	.968	.962	.935	.913	.903	.865	.796	.764	.685	
22	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.994	.978	.972	.966	.958	.933	.911	.901	.861	.792	.756	
23	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.998	.994	.976	.970	.964	.956	.931	.909	.899	.857	.788
24	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.996	.992	.974	.968	.964	.954	.929	.907	.897	.853
25	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.994	.990	.972	.968	.964	.952	.927	.905	.895
26	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.992	.988	.972	.968	.964	.950	.925	.903
27	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.990	.988	.972	.968	.964	.948	.923
28	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.990	.988	.972	.968	.962	.948
29	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.990	.988	.972	.966	.962
30	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.990	.988	.970	.966
31	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.990	.986	.970
32	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.988	.986
33	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.998	.988
34	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.996
35	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
36	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
37	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
38	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
39	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
40	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00

TOTAL OBSERVATIONS 496

TABLE 3. 8.b. P(W < W\*) I LAUNCH OPPORTUNITIES IN J PERIODS (W\* = 45 M/SEC).  
 BASED ON MAXIMUM WIND SPEEDS IN THE 10-15 KM LAYER OVER CAPE KENNEDY, FLORIDA.  
 PERIOD OF RECORD JANUARY 1956 - DECEMBER 1963.



CAPE KENNEDY, FLORIDA MAY  
SPEEDS LESS THAN 050 MPS

PC ( I CONSECUTIVE SUCCESSES IN J PERIODS )

	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
1	.931																			
2	.956	.909																		
3	.966	.933	.887																	
4	.974	.956	.909	.867																
5	.980	.966	.929	.889	.847															
6	.986	.974	.950	.909	.867	.831														
7	.992	.980	.960	.929	.885	.847	.821													
8	.996	.986	.968	.950	.903	.861	.835	.815												
9	.998	.992	.974	.960	.921	.875	.847	.829	.808											
10	1.00	.996	.980	.968	.940	.889	.859	.841	.823	.802										
11	1.00	.978	.986	.974	.950	.903	.871	.853	.835	.817	.796									
12	1.00	1.00	.990	.980	.958	.917	.883	.865	.847	.829	.810	.790								
13	1.00	1.00	.992	.986	.964	.925	.895	.877	.859	.841	.823	.804	.784							
14	1.00	1.00	.994	.990	.970	.931	.905	.889	.871	.853	.835	.817	.798	.778						
15	1.00	1.00	.996	.997	.976	.938	.913	.899	.883	.865	.847	.829	.810	.792	.772					
16	1.00	1.00	.998	.994	.980	.944	.919	.909	.893	.877	.859	.841	.823	.804	.786	.766				
17	1.00	1.00	1.00	.996	.984	.950	.925	.917	.903	.887	.871	.853	.835	.817	.798	.780	.762			
18	1.00	1.00	1.00	.998	.988	.956	.931	.923	.913	.897	.881	.865	.847	.829	.810	.792	.776	.758		
19	1.00	1.00	1.00	1.00	.992	.962	.938	.929	.921	.907	.891	.875	.859	.841	.823	.804	.786	.772	.754	
20	1.00	1.00	1.00	1.00	.996	.968	.944	.935	.927	.917	.901	.885	.869	.853	.835	.817	.800	.784	.768	.750
21	1.00	1.00	1.00	1.00	1.00	.972	.950	.942	.933	.925	.911	.895	.879	.863	.847	.829	.813	.796	.780	.764
22	1.00	1.00	1.00	1.00	1.00	.976	.956	.948	.940	.931	.921	.905	.889	.873	.857	.841	.825	.808	.792	.776
23	1.00	1.00	1.00	1.00	1.00	.980	.962	.954	.946	.938	.929	.915	.899	.883	.867	.851	.837	.821	.804	.788
24	1.00	1.00	1.00	1.00	1.00	.982	.968	.960	.952	.944	.935	.925	.909	.893	.877	.861	.847	.831	.817	.800
25	1.00	1.00	1.00	1.00	1.00	.984	.974	.966	.958	.950	.942	.933	.919	.903	.887	.871	.857	.843	.829	.813
26	1.00	1.00	1.00	1.00	1.00	.986	.978	.972	.964	.956	.948	.940	.929	.913	.897	.881	.867	.853	.839	.825
27	1.00	1.00	1.00	1.00	1.00	.988	.982	.976	.970	.962	.954	.946	.938	.923	.907	.891	.877	.863	.849	.835
28	1.00	1.00	1.00	1.00	1.00	.990	.984	.980	.974	.968	.960	.952	.944	.933	.917	.901	.887	.873	.859	.845
29	1.00	1.00	1.00	1.00	1.00	.992	.990	.984	.978	.972	.966	.958	.950	.942	.927	.911	.897	.883	.869	.855
30	1.00	1.00	1.00	1.00	1.00	.994	.992	.988	.982	.976	.970	.964	.956	.948	.938	.921	.907	.893	.879	.865
31	1.00	1.00	1.00	1.00	1.00	.996	.994	.992	.986	.980	.974	.968	.962	.954	.946	.931	.917	.903	.889	.875
32	1.00	1.00	1.00	1.00	1.00	.998	.996	.994	.990	.984	.978	.972	.966	.960	.952	.942	.927	.913	.899	.885
33	1.00	1.00	1.00	1.00	1.00	1.00	.998	.994	.994	.988	.982	.976	.970	.964	.958	.950	.938	.923	.909	.895
34	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.998	.996	.992	.986	.980	.974	.968	.962	.956	.946	.933	.919	.905
35	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.998	.994	.990	.984	.978	.972	.966	.960	.954	.942	.929	.915
36	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.998	.994	.988	.982	.976	.970	.964	.958	.950	.938	.925
37	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.998	.992	.986	.980	.974	.966	.962	.956	.946	.933
38	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.996	.990	.984	.978	.972	.966	.960	.952	.942
39	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.994	.988	.982	.976	.970	.964	.958	.948
40	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.998	.992	.986	.980	.974	.968	.962	.954

TABLE 5. J.a. P(W < W\*) I CONSECUTIVE LAUNCH OPPORTUNITIES IN J PERIODS (W\* = 50 M/SEC).  
BASED ON MAXIMUM WIND SPEEDS IN THE 10-15 KM LAYER OVER CAPE KENNEDY, FLORIDA.  
PERIOD OF RECORD JANUARY 1956 - DECEMBER 1963.

CAPE KENNEDY, FLORIDA MAY  
SPEEDS LESS THAN 050 MPS

P ( I SUCCESSES IN J PERIODS )

	I																			
J	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
1	.931																			
2	.956	.909																		
3	.966	.946	.887																	
4	.974	.958	.933	.867																
5	.980	.968	.948	.923	.847															
6	.986	.974	.960	.940	.911	.831														
7	.992	.980	.966	.954	.924	.899	.821													
8	.996	.988	.972	.960	.946	.919	.889	.815												
9	.998	.994	.982	.966	.952	.938	.911	.881	.808											
10	1.00	.996	.990	.978	.958	.946	.929	.905	.873	.802										
11	1.00	1.00	.992	.988	.972	.952	.942	.921	.899	.867	.796									
12	1.00	1.00	.998	.990	.984	.966	.948	.938	.913	.893	.863	.790								
13	1.00	1.00	1.00	.996	.988	.980	.960	.944	.933	.903	.891	.859	.784							
14	1.00	1.00	1.00	1.00	.994	.986	.976	.954	.940	.925	.899	.889	.855	.778						
15	1.00	1.00	1.00	1.00	1.00	.992	.984	.972	.948	.929	.925	.895	.887	.851	.772					
16	1.00	1.00	1.00	1.00	1.00	1.00	.990	.982	.968	.933	.929	.923	.893	.885	.847	.766				
17	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.988	.980	.954	.933	.929	.921	.891	.883	.843	.762			
18	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.986	.968	.952	.933	.929	.919	.889	.881	.839	.758		
19	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.976	.966	.950	.933	.929	.917	.887	.879	.835	.754	
20	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.992	.974	.964	.948	.933	.929	.915	.885	.877	.831	.750
21	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.994	.990	.972	.962	.946	.933	.929	.913	.883	.875	.827
22	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.996	.992	.988	.970	.960	.946	.933	.929	.911	.881	.873
23	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.998	.994	.990	.986	.968	.960	.946	.933	.929	.909	.879
24	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.996	.992	.988	.984	.968	.960	.946	.933	.929	.907
25	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.994	.990	.986	.984	.968	.960	.946	.933	.929
26	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.992	.988	.986	.984	.968	.960	.946	.933
27	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.990	.988	.986	.984	.968	.960	.946
28	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.990	.988	.986	.984	.968	.960
29	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.990	.988	.986	.984	.968
30	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.990	.988	.986	.984
31	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.990	.988	.986
32	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.990	.988
33	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.990
34	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
35	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
36	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
37	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
38	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
39	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
40	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00

TOTAL OBSERVATIONS 496

TABLE 5.9.b. P(W < W\*) I LAUNCH OPPORTUNITIES IN J PERIODS (W\* = 50 M/SEC).  
BASED ON MAXIMUM WIND SPEEDS IN THE 10-15 KM LAYER OVER CAPE KENNEDY, FLORIDA.  
PERIOD OF RECORD JANUARY 1956 - DECEMBER 1963.

CAPE KENNEDY, FLORIDA MAY  
SPEEDS LESS THAN 055 MPS

PC ( I CONSECUTIVE SUCCESSES IN J PERIODS )

	I																			
J	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
1	.968																			
2	.988	.950																		
3	.994	.966	.935																	
4	.998	.980	.952	.921																
5	1.00	.985	.966	.935	.909															
6	1.00	.992	.980	.948	.923	.897														
7	1.00	.996	.986	.960	.935	.907	.889													
8	1.00	.998	.992	.972	.948	.915	.899	.883												
9	1.00	1.00	.996	.978	.960	.923	.907	.893	.879											
10	1.00	1.00	.998	.984	.972	.931	.915	.901	.889	.875										
11	1.00	1.00	1.00	.988	.978	.940	.923	.909	.897	.885	.871									
12	1.00	1.00	1.00	.992	.984	.948	.931	.917	.905	.893	.881	.867								
13	1.00	1.00	1.00	.996	.988	.952	.940	.925	.913	.901	.889	.877	.863							
14	1.00	1.00	1.00	.998	.992	.956	.948	.933	.921	.909	.897	.885	.873	.859						
15	1.00	1.00	1.00	1.00	.996	.960	.952	.942	.929	.917	.905	.893	.881	.869	.855					
16	1.00	1.00	1.00	1.00	.998	.964	.956	.950	.938	.925	.913	.901	.889	.877	.865	.851				
17	1.00	1.00	1.00	1.00	1.00	.968	.960	.954	.946	.933	.921	.909	.897	.885	.873	.861	.849			
18	1.00	1.00	1.00	1.00	1.00	.972	.964	.958	.954	.942	.929	.917	.905	.893	.881	.869	.859	.847		
19	1.00	1.00	1.00	1.00	1.00	.976	.968	.962	.958	.950	.938	.925	.913	.901	.889	.877	.867	.857	.845	
20	1.00	1.00	1.00	1.00	1.00	.978	.972	.966	.962	.958	.946	.933	.921	.909	.897	.885	.875	.865	.855	.843
21	1.00	1.00	1.00	1.00	1.00	.980	.976	.970	.966	.962	.954	.942	.929	.917	.905	.893	.883	.873	.863	.853
22	1.00	1.00	1.00	1.00	1.00	.982	.978	.974	.970	.966	.962	.950	.938	.925	.913	.901	.891	.881	.871	.861
23	1.00	1.00	1.00	1.00	1.00	.984	.980	.976	.974	.970	.966	.958	.946	.933	.921	.909	.899	.889	.879	.869
24	1.00	1.00	1.00	1.00	1.00	.986	.982	.978	.976	.974	.970	.966	.954	.942	.929	.917	.907	.897	.887	.877
25	1.00	1.00	1.00	1.00	1.00	.988	.984	.980	.978	.976	.974	.970	.962	.950	.938	.925	.915	.905	.895	.885
26	1.00	1.00	1.00	1.00	1.00	.990	.986	.982	.980	.978	.976	.974	.970	.958	.946	.933	.923	.913	.903	.893
27	1.00	1.00	1.00	1.00	1.00	.992	.988	.984	.982	.980	.978	.976	.974	.966	.954	.942	.931	.921	.911	.901
28	1.00	1.00	1.00	1.00	1.00	.994	.990	.986	.984	.982	.980	.978	.976	.974	.962	.950	.940	.929	.919	.909
29	1.00	1.00	1.00	1.00	1.00	.996	.992	.988	.986	.984	.982	.980	.978	.976	.970	.958	.948	.938	.927	.917
30	1.00	1.00	1.00	1.00	1.00	.998	.994	.990	.988	.986	.984	.982	.980	.978	.976	.966	.956	.946	.935	.925
31	1.00	1.00	1.00	1.00	1.00	1.00	.996	.992	.990	.988	.986	.984	.982	.980	.978	.972	.964	.954	.944	.933
32	1.00	1.00	1.00	1.00	1.00	1.00	.998	.994	.992	.990	.988	.986	.984	.982	.980	.978	.970	.962	.952	.942
33	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.996	.994	.992	.990	.988	.986	.984	.982	.980	.976	.968	.960	.950
34	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.998	.996	.994	.992	.990	.988	.986	.984	.982	.980	.974	.966	.958
35	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.998	.996	.994	.992	.990	.988	.986	.984	.982	.978	.972	.964
36	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.998	.996	.994	.992	.990	.988	.986	.984	.982	.976	.970
37	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.998	.996	.994	.992	.990	.988	.986	.984	.980	.974
38	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.998	.996	.994	.992	.990	.988	.986	.984	.978
39	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.998	.996	.994	.992	.990	.988	.986	.982
40	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.998	.996	.994	.992	.990	.988	.986

TOTAL OBSERVATIONS 496

TABLE 5.10.a. P(W < W\*) I CONSECUTIVE LAUNCH OPPORTUNITIES IN J PERIODS (W\* = 55 M/SEC).  
BASED ON MAXIMUM WIND SPEEDS IN THE 10-15 KM LAYER OVER CAPE KENNEDY, FLORIDA.  
PERIOD OF RECORD JANUARY 1956 - DECEMBER 1963.

CAPE KENNEDY, FLORIDA MAY  
SPEEDS LESS THAN 055 MPS

P ( I SUCCESSES IN J PERIODS )

	I																			
J	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
1	.968																			
2	.988	.950																		
3	.994	.978	.935																	
4	.998	.986	.972	.921																
5	1.00	.994	.980	.964	.909															
6	1.00	.998	.992	.974	.956	.897														
7	1.00	1.00	.996	.990	.966	.946	.889													
8	1.00	1.00	1.00	.994	.986	.958	.938	.883												
9	1.00	1.00	1.00	1.00	.992	.980	.950	.931	.879											
10	1.00	1.00	1.00	1.00	1.00	.990	.972	.944	.927	.875										
11	1.00	1.00	1.00	1.00	1.00	1.00	.986	.966	.940	.923	.871									
12	1.00	1.00	1.00	1.00	1.00	1.00	.998	.984	.960	.935	.921	.867								
13	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.996	.982	.954	.929	.921	.863							
14	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.994	.980	.946	.927	.921	.859						
15	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.992	.976	.940	.927	.921	.855					
16	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.990	.968	.938	.927	.921	.851				
17	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.982	.966	.938	.927	.921	.849			
18	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.994	.980	.964	.938	.927	.921	.847		
19	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.996	.992	.978	.962	.938	.927	.921	.845	
20	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.998	.994	.990	.976	.960	.938	.927	.921	.843
21	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.996	.992	.988	.974	.958	.938	.927	.921
22	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.994	.990	.986	.972	.956	.938	.927
23	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.992	.988	.984	.970	.956	.938
24	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.990	.986	.982	.968	.956
25	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.988	.984	.980	.968
26	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.986	.982	.980
27	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.984	.982
28	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.984
29	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
30	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
31	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
32	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
33	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
34	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
35	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
36	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
37	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
38	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
39	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
40	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00

TOTAL OBSERVATIONS 496

TABLE 5.10.b. P(W < W\*) I LAUNCH OPPORTUNITIES IN J PERIODS (W\* = 55 M/SEC).  
BASED ON MAXIMUM WIND SPEEDS IN THE 10-15 KM LAYER OVER CAPE KENNEDY, FLORIDA.

PERIOD OF RECORD JANUARY 1956 - DECEMBER 1963.

CAPF KENNEDY . FLORIDA JUNE  
SPEEDS LESS THAN 010 MPS

PC ( I CONSECUTIVE SUCCESSES IN J PERIODS )

	I																			
J	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
1	.125																			
2	.190	.058																		
3	.235	.094	.021																	
4	.277	.129	.035	.006																
5	.310	.156	.050	.010	.002															
6	.342	.183	.065	.015	.004	.000														
7	.371	.208	.079	.019	.006	.000	.000													
8	.398	.225	.094	.023	.008	.000	.000	.000												
9	.427	.242	.106	.027	.010	.000	.000	.000	.000											
10	.452	.258	.119	.031	.013	.000	.000	.000	.000	.000										
11	.477	.275	.131	.035	.015	.000	.000	.000	.000	.000	.000									
12	.506	.292	.144	.040	.017	.000	.000	.000	.000	.000	.000	.000								
13	.533	.310	.154	.04	.019	.000	.000	.000	.000	.000	.000	.000	.000							
14	.565	.327	.165	.048	.021	.000	.000	.000	.000	.000	.000	.000	.000	.000						
15	.594	.348	.173	.052	.023	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000					
16	.623	.369	.185	.056	.025	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000				
17	.644	.390	.198	.063	.027	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000			
18	.665	.410	.210	.069	.029	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000		
19	.683	.431	.221	.075	.031	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	
20	.698	.452	.231	.079	.033	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
21	.704	.473	.242	.083	.033	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
22	.713	.494	.252	.088	.033	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
23	.721	.513	.263	.092	.035	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
24	.729	.529	.273	.096	.038	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
25	.738	.546	.283	.100	.040	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
26	.746	.560	.292	.104	.042	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
27	.754	.575	.298	.108	.044	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
28	.763	.590	.306	.113	.046	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
29	.771	.602	.315	.117	.048	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
30	.779	.615	.323	.121	.050	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
31	.788	.627	.331	.125	.052	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
32	.796	.640	.340	.129	.054	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
33	.804	.652	.348	.133	.056	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
34	.813	.663	.356	.138	.058	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
35	.821	.673	.365	.142	.060	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
36	.829	.683	.371	.146	.063	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
37	.838	.696	.375	.150	.065	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
38	.846	.708	.381	.154	.067	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
39	.854	.723	.388	.158	.069	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
40	.863	.738	.396	.163	.071	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000

TOTAL OBSERVATIONS 480

TABLE 6. 1.a. P(W < W\*) I CONSECUTIVE LAUNCH OPPORTUNITIES IN J PERIODS (W\* = 10 M/SEC).  
BASED ON MAXIMUM WIND SPEEDS IN THE 10-15 KM LAYER OVER CAPE KENNEDY, FLORIDA.  
PERIOD OF RECORD JANUARY 1956 - DECEMBER 1963.

CAPE KENNEDY, FLORIDA JUNE  
 SPEEDS LESS THAN 10 MPS

P ( I SUCCESSSES IN J PERIODS )

J	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
1	.125																			
2	.190	.058																		
3	.235	.113	.021																	
4	.277	.146	.058	.006																
5	.310	.173	.090	.023	.002															
6	.342	.210	.123	.042	.008	.000														
7	.371	.231	.154	.071	.019	.000	.000													
8	.398	.252	.173	.098	.035	.004	.000	.000												
9	.425	.271	.204	.125	.054	.008	.002	.000	.000											
10	.452	.290	.225	.152	.073	.017	.004	.000	.000	.000										
11	.477	.310	.244	.175	.092	.031	.006	.000	.000	.000	.000									
12	.506	.331	.263	.196	.113	.042	.015	.000	.000	.000	.000	.000								
13	.533	.352	.283	.213	.133	.056	.019	.004	.000	.000	.000	.000	.000							
14	.565	.373	.302	.231	.152	.071	.025	.006	.002	.000	.000	.000	.000	.000						
15	.594	.396	.321	.250	.173	.085	.031	.008	.004	.000	.000	.000	.000	.000	.000					
16	.623	.419	.342	.271	.194	.102	.038	.010	.006	.000	.000	.000	.000	.000	.000	.000				
17	.644	.448	.363	.292	.213	.117	.048	.013	.008	.000	.000	.000	.000	.000	.000	.000	.000			
18	.665	.471	.392	.313	.231	.127	.060	.017	.010	.000	.000	.000	.000	.000	.000	.000	.000	.000		
19	.683	.494	.417	.335	.252	.138	.067	.025	.015	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	
20	.698	.523	.440	.360	.273	.148	.073	.031	.019	.002	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
21	.704	.554	.467	.383	.296	.158	.079	.038	.023	.004	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
22	.713	.575	.500	.410	.319	.169	.085	.046	.027	.006	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
23	.721	.594	.525	.444	.346	.181	.092	.054	.033	.008	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
24	.729	.610	.548	.469	.383	.196	.098	.063	.040	.010	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
25	.738	.627	.567	.494	.413	.219	.106	.071	.046	.013	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
26	.746	.642	.588	.515	.440	.242	.121	.079	.052	.015	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
27	.754	.654	.606	.535	.465	.265	.138	.090	.058	.017	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
28	.763	.671	.621	.556	.485	.292	.158	.104	.065	.019	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
29	.771	.685	.640	.571	.506	.317	.183	.117	.075	.021	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
30	.779	.700	.656	.585	.523	.338	.210	.135	.085	.025	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
31	.788	.715	.673	.600	.538	.363	.227	.160	.098	.031	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
32	.796	.727	.692	.613	.554	.383	.250	.173	.121	.038	.002	.000	.000	.000	.000	.000	.000	.000	.000	.000
33	.804	.740	.704	.631	.567	.404	.275	.185	.135	.052	.006	.000	.000	.000	.000	.000	.000	.000	.000	.000
34	.813	.750	.717	.644	.585	.417	.302	.206	.146	.069	.013	.002	.000	.000	.000	.000	.000	.000	.000	.000
35	.821	.760	.729	.656	.598	.435	.321	.229	.165	.077	.025	.008	.000	.000	.000	.000	.000	.000	.000	.000
36	.829	.771	.742	.669	.610	.452	.340	.250	.185	.090	.031	.017	.004	.000	.000	.000	.000	.000	.000	.000
37	.838	.779	.756	.681	.623	.469	.353	.267	.208	.106	.038	.023	.010	.002	.000	.000	.000	.000	.000	.000
38	.846	.788	.771	.696	.633	.488	.377	.283	.227	.129	.046	.027	.017	.006	.000	.000	.000	.000	.000	.000
39	.854	.796	.783	.715	.644	.502	.400	.296	.246	.150	.060	.031	.021	.010	.002	.000	.000	.000	.000	.000
40	.863	.804	.792	.729	.663	.517	.417	.315	.258	.171	.081	.035	.025	.015	.004	.000	.000	.000	.000	.000

TOTAL OBSERVATIONS 480

TABLE 6. I. b. P(W < W\*) I LAUNCH OPPORTUNITIES IN J PERIODS (W\* = 10 M/SEC).  
 BASED ON MAXIMUM WIND SPEEDS IN THE 10-15 KM LAYER OVER CAPE KENNEDY, FLORIDA.  
 PERIOD OF RECORD JANUARY 1956 - DECEMBER 1963.

CAPE KENNEDY, FLORIDA JUNE  
SPEEDS LESS THAN 015 MPS

PC ( I CONSECUTIVE SUCCESSSES IN J PERIODS )

	I																			
J	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
1	.406																			
2	.525	.288																		
3	.600	.346	.227																	
4	.660	.406	.273	.179																
5	.710	.460	.321	.210	.146															
6	.756	.508	.369	.244	.173	.117														
7	.796	.552	.410	.277	.202	.140	.096													
8	.833	.594	.452	.310	.231	.165	.115	.077												
9	.865	.631	.488	.344	.260	.190	.135	.094	.060											
10	.890	.665	.523	.375	.292	.215	.156	.113	.077	.044										
11	.910	.699	.556	.406	.321	.242	.177	.131	.096	.056	.031									
12	.929	.727	.590	.435	.350	.269	.200	.150	.115	.071	.038	.025								
13	.944	.758	.621	.467	.377	.294	.223	.171	.133	.085	.046	.031	.019							
14	.956	.788	.654	.496	.406	.319	.246	.192	.154	.100	.054	.040	.023	.015						
15	.967	.813	.683	.529	.435	.346	.267	.213	.175	.117	.063	.048	.027	.017	.013					
16	.975	.838	.710	.558	.469	.373	.290	.233	.196	.133	.073	.056	.031	.019	.015	.010				
17	.981	.858	.735	.583	.500	.406	.313	.254	.217	.150	.083	.067	.035	.021	.017	.013	.008			
18	.985	.879	.760	.608	.527	.435	.338	.275	.240	.167	.094	.077	.042	.023	.019	.015	.010	.006		
19	.990	.894	.785	.631	.552	.463	.360	.298	.260	.185	.104	.088	.048	.025	.021	.017	.013	.008	.004	
20	.992	.902	.810	.652	.577	.490	.379	.319	.283	.204	.117	.098	.054	.027	.023	.019	.015	.010	.006	.002
21	.994	.910	.827	.673	.598	.517	.398	.338	.304	.225	.129	.108	.060	.029	.025	.021	.017	.013	.008	.004
22	.996	.917	.842	.694	.619	.542	.417	.354	.323	.246	.144	.119	.067	.031	.027	.023	.019	.015	.010	.006
23	.998	.923	.854	.708	.640	.567	.433	.371	.342	.265	.158	.131	.073	.033	.029	.025	.021	.017	.013	.008
24	1.00	.929	.867	.723	.660	.592	.450	.385	.358	.283	.173	.144	.081	.035	.031	.027	.023	.019	.015	.010
25	1.00	.935	.879	.738	.677	.617	.467	.400	.373	.302	.188	.156	.090	.040	.033	.029	.025	.021	.017	.013
26	1.00	.942	.892	.752	.694	.642	.483	.415	.388	.317	.202	.169	.098	.044	.035	.031	.027	.023	.019	.015
27	1.00	.948	.904	.767	.710	.660	.502	.429	.402	.331	.215	.181	.106	.048	.038	.033	.029	.025	.021	.017
28	1.00	.954	.917	.781	.727	.679	.519	.446	.417	.346	.225	.192	.115	.052	.040	.035	.031	.027	.023	.019
29	1.00	.960	.929	.796	.744	.698	.533	.460	.433	.360	.235	.202	.121	.056	.042	.038	.033	.029	.025	.021
30	1.00	.967	.942	.810	.760	.717	.548	.475	.448	.375	.246	.213	.127	.060	.044	.040	.035	.031	.027	.023
31	1.00	.971	.952	.825	.775	.735	.563	.488	.463	.388	.256	.223	.133	.065	.046	.042	.038	.033	.029	.025
32	1.00	.975	.960	.840	.790	.754	.577	.500	.477	.400	.267	.233	.140	.069	.048	.044	.040	.035	.031	.027
33	1.00	.979	.967	.852	.804	.771	.592	.513	.490	.413	.277	.244	.146	.073	.050	.046	.042	.038	.033	.029
34	1.00	.983	.973	.865	.819	.788	.606	.525	.502	.425	.288	.254	.152	.077	.052	.048	.044	.040	.035	.031
35	1.00	.988	.979	.877	.829	.804	.621	.538	.515	.435	.298	.265	.158	.081	.054	.050	.046	.042	.038	.033
36	1.00	.990	.983	.888	.840	.819	.635	.550	.527	.446	.308	.275	.165	.085	.056	.052	.048	.044	.040	.035
37	1.00	.992	.988	.896	.850	.829	.650	.563	.540	.456	.317	.285	.171	.092	.058	.054	.050	.046	.042	.038
38	1.00	.994	.990	.904	.858	.840	.663	.575	.552	.467	.325	.296	.177	.098	.063	.056	.052	.048	.044	.040
39	1.00	.996	.992	.913	.867	.848	.673	.588	.565	.477	.333	.304	.183	.104	.067	.060	.054	.050	.046	.042
40	1.00	.998	.994	.921	.875	.856	.681	.598	.577	.488	.342	.313	.190	.110	.071	.065	.056	.052	.048	.044

TOTAL OBSERVATIONS 480

TABLE 6. 2.a. P(W < W\*) I CONSECUTIVE LAUNCH OPPORTUNITIES IN J PERIODS (W\* = 15 M/SEC).  
BASED ON MAXIMUM WIND SPEEDS IN THE 10-15 KM LAYER OVER CAPE KENNEDY, FLORIDA.  
PERIOD OF RECORD JANUARY 1956 - DECEMBER 1963.

CAPE KENNEDY - FLORIDA JUNE  
SPEEDS LESS THAN 015 MPS

P ( I SUCCESSSES IN J PERIODS )

	I																			
J	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
1	.406																			
2	.525	.289																		
3	.600	.390	.227																	
4	.560	.473	.308	.179																
5	.710	.529	.394	.246	.146															
6	.756	.577	.458	.321	.204	.117														
7	.796	.621	.506	.383	.273	.171	.096													
8	.833	.660	.554	.433	.329	.231	.144	.077												
9	.865	.704	.594	.479	.373	.285	.198	.121	.060											
10	.890	.746	.640	.519	.421	.321	.250	.171	.102	.044										
11	.910	.781	.679	.565	.456	.369	.283	.225	.146	.081	.031									
12	.929	.810	.723	.606	.496	.404	.329	.260	.196	.121	.060	.025								
13	.944	.840	.758	.658	.527	.444	.360	.308	.229	.171	.088	.054	.019							
14	.956	.867	.788	.700	.581	.473	.400	.335	.255	.200	.133	.073	.046	.015						
15	.967	.888	.815	.738	.627	.521	.431	.369	.310	.256	.195	.113	.060	.038	.013					
16	.975	.906	.840	.765	.677	.560	.481	.396	.344	.283	.213	.137	.050	.033	.010					
17	.981	.921	.863	.794	.708	.610	.525	.440	.371	.317	.240	.190	.115	.075	.042	.031	.008			
18	.985	.931	.883	.819	.742	.652	.567	.481	.410	.344	.275	.208	.171	.096	.058	.038	.029	.006		
19	.990	.940	.894	.848	.769	.690	.608	.519	.450	.383	.300	.240	.188	.150	.079	.048	.033	.027	.004	
20	.992	.950	.900	.863	.804	.721	.652	.554	.490	.427	.333	.267	.213	.165	.135	.065	.040	.029	.025	.002
21	.994	.956	.910	.871	.827	.760	.685	.600	.525	.469	.375	.298	.235	.188	.148	.119	.092	.033	.027	.023
22	.996	.963	.917	.883	.842	.792	.777	.627	.575	.504	.417	.338	.267	.208	.167	.133	.100	.042	.029	.025
23	.998	.967	.925	.892	.856	.815	.765	.663	.608	.550	.458	.371	.308	.233	.188	.152	.113	.081	.038	.027
24	1.00	.971	.931	.902	.867	.835	.796	.696	.644	.590	.504	.406	.342	.277	.206	.175	.129	.092	.073	.031
25	1.00	.977	.938	.910	.877	.852	.817	.735	.673	.625	.550	.448	.375	.308	.246	.194	.154	.104	.081	.063
26	1.00	.981	.946	.919	.885	.867	.838	.763	.708	.658	.588	.496	.410	.342	.271	.235	.173	.125	.092	.071
27	1.00	.985	.952	.929	.894	.877	.856	.790	.731	.696	.625	.542	.452	.373	.304	.254	.219	.144	.106	.079
28	1.00	.990	.958	.940	.902	.888	.867	.821	.750	.719	.669	.585	.498	.408	.338	.281	.238	.188	.123	.094
29	1.00	.992	.967	.948	.913	.896	.879	.838	.781	.735	.698	.638	.544	.448	.375	.308	.260	.208	.165	.110
30	1.00	.994	.971	.960	.921	.906	.888	.856	.798	.767	.717	.675	.600	.496	.410	.344	.283	.229	.181	.152
31	1.00	.996	.975	.967	.933	.915	.898	.869	.817	.783	.752	.698	.648	.548	.460	.377	.315	.248	.198	.169
32	1.00	.998	.979	.971	.942	.927	.906	.883	.829	.802	.771	.738	.675	.602	.508	.429	.368	.273	.215	.183
33	1.00	1.00	.983	.975	.948	.935	.919	.892	.846	.817	.792	.758	.719	.640	.556	.477	.404	.300	.235	.200
34	1.00	1.00	.990	.979	.952	.942	.927	.904	.860	.829	.808	.781	.742	.692	.596	.523	.446	.360	.258	.219
35	1.00	1.00	.992	.988	.956	.946	.933	.915	.875	.842	.825	.800	.767	.719	.650	.567	.481	.402	.317	.238
36	1.00	1.00	.994	.990	.967	.950	.938	.923	.885	.858	.838	.819	.788	.748	.681	.621	.529	.438	.360	.290
37	1.00	1.00	.996	.992	.973	.958	.942	.929	.894	.873	.852	.833	.810	.773	.713	.658	.585	.479	.396	.329
38	1.00	1.00	.998	.994	.977	.967	.948	.935	.900	.883	.865	.850	.827	.804	.738	.692	.627	.533	.444	.360
39	1.00	1.00	1.00	.996	.981	.971	.958	.942	.906	.890	.875	.863	.846	.823	.775	.719	.658	.579	.500	.408
40	1.00	1.00	1.00	1.00	.985	.973	.963	.952	.915	.894	.881	.875	.856	.844	.798	.763	.683	.621	.540	.465

TOTAL OBSERVATIONS 480

TABLE 6. 2.b. P(W < W\*) I LAUNCH OPPORTUNITIES IN J PERIODS (W\* = 15 M/SEC).  
BASED ON MAXIMUM WIND SPEEDS IN THE 10-15 KM LAYER OVER CAPE KENNEDY, FLORIDA.  
PERIOD OF RECORD JANUARY 1956 - DECEMBER 1963.



CAPE KENNEDY, FLORIDA JMF  
 SPEEDS LESS THAN 20 MPS

PC ( I CONSECUTIVE SUCCESSSES IN J PERIODS )

	I																			
J	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
1	.627																			
2	.729	.529																		
3	.785	.596	.465																	
4	.827	.665	.527	.402																
5	.860	.717	.592	.452	.354															
6	.888	.760	.656	.506	.400	.310														
7	.913	.798	.706	.563	.450	.346	.277													
8	.935	.829	.748	.619	.502	.385	.308	.248												
9	.950	.860	.781	.665	.554	.427	.344	.275	.223											
10	.960	.888	.813	.702	.606	.489	.381	.306	.246	.202										
11	.969	.910	.842	.735	.648	.510	.419	.340	.273	.223	.185									
12	.977	.927	.869	.767	.681	.550	.456	.373	.302	.248	.204	.169								
13	.983	.942	.892	.796	.713	.583	.492	.406	.331	.275	.227	.183	.156							
14	.988	.956	.910	.823	.742	.613	.525	.438	.360	.302	.252	.202	.169	.146						
15	.992	.967	.927	.846	.769	.632	.556	.469	.388	.320	.277	.223	.185	.158	.135					
16	.996	.975	.944	.863	.794	.669	.588	.502	.415	.354	.302	.244	.204	.175	.148	.125				
17	1.00	.983	.956	.879	.815	.696	.619	.533	.444	.379	.325	.265	.223	.194	.165	.138	.115			
18	1.00	.992	.967	.896	.831	.723	.648	.565	.473	.404	.348	.283	.242	.213	.183	.152	.123	.100		
19	1.00	.998	.977	.913	.848	.744	.677	.596	.500	.429	.371	.302	.258	.231	.202	.169	.133	.117	.102	
20	1.00	1.00	.985	.929	.865	.763	.704	.627	.527	.454	.394	.321	.275	.248	.221	.185	.146	.127	.110	.096
21	1.00	1.00	.992	.946	.881	.781	.727	.656	.554	.477	.417	.340	.292	.265	.238	.202	.158	.138	.121	.104
22	1.00	1.00	.994	.960	.898	.798	.748	.685	.579	.500	.440	.358	.308	.281	.254	.217	.171	.148	.131	.115
23	1.00	1.00	.996	.973	.915	.815	.769	.708	.604	.521	.460	.377	.325	.298	.271	.231	.183	.158	.142	.125
24	1.00	1.00	.998	.979	.929	.829	.788	.731	.627	.542	.479	.396	.342	.315	.288	.246	.196	.169	.152	.135
25	1.00	1.00	1.00	.983	.944	.844	.804	.756	.646	.560	.498	.413	.358	.331	.304	.260	.208	.179	.163	.146
26	1.00	1.00	1.00	.983	.954	.856	.819	.779	.667	.579	.515	.429	.375	.348	.321	.275	.221	.190	.173	.156
27	1.00	1.00	1.00	.992	.963	.869	.833	.800	.688	.600	.531	.444	.390	.365	.338	.290	.233	.200	.183	.167
28	1.00	1.00	1.00	.994	.971	.881	.846	.817	.706	.621	.550	.458	.402	.381	.354	.304	.246	.210	.194	.177
29	1.00	1.00	1.00	.996	.979	.894	.858	.833	.723	.644	.569	.475	.415	.394	.371	.319	.258	.221	.204	.188
30	1.00	1.00	1.00	.998	.983	.906	.871	.848	.735	.665	.590	.492	.429	.406	.385	.333	.271	.231	.215	.198
31	1.00	1.00	1.00	1.00	.988	.919	.883	.863	.748	.683	.610	.510	.444	.421	.398	.346	.283	.242	.225	.208
32	1.00	1.00	1.00	1.00	.992	.929	.896	.877	.758	.700	.631	.529	.460	.435	.413	.358	.296	.252	.235	.219
33	1.00	1.00	1.00	1.00	.994	.940	.908	.890	.769	.717	.652	.548	.477	.452	.427	.371	.308	.263	.246	.229
34	1.00	1.00	1.00	1.00	.996	.948	.921	.902	.779	.731	.671	.567	.494	.469	.444	.383	.323	.273	.256	.240
35	1.00	1.00	1.00	1.00	.998	.954	.931	.915	.790	.746	.690	.585	.510	.485	.460	.398	.335	.285	.267	.250
36	1.00	1.00	1.00	1.00	1.00	.960	.942	.925	.800	.760	.706	.602	.527	.502	.477	.413	.348	.298	.279	.260
37	1.00	1.00	1.00	1.00	1.00	.967	.950	.935	.810	.775	.723	.619	.544	.519	.494	.427	.360	.308	.292	.273
38	1.00	1.00	1.00	1.00	1.00	.971	.958	.946	.821	.790	.740	.635	.558	.535	.510	.442	.373	.319	.304	.285
39	1.00	1.00	1.00	1.00	1.00	.975	.965	.954	.831	.804	.756	.652	.573	.552	.527	.456	.385	.329	.315	.298
40	1.00	1.00	1.00	1.00	1.00	.979	.971	.960	.842	.819	.773	.669	.588	.567	.544	.471	.398	.340	.325	.310

TOTAL OBSERVATIONS 480

TABLE 6. 3.a. P(W < W\*) I CONSECUTIVE LAUNCH OPPORTUNITIES IN J PERIODS (W\* = 20 M/SEC).

BASED ON MAXIMUM WIND SPEEDS IN THE 10-15 KM LAYER OVER CAPE KENNEDY, FLORIDA.

PERIOD OF RECORD JANUARY 1956 - DECEMBER 1963.

CAPE KENNEDY, FLORIDA JUNE  
SPEEDS LESS THAN 20 MPS

P ( I SUCCESSSES IN J PERIODS )

J	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
1	.627																			
2	.729	.529																		
3	.785	.644	.465																	
4	.827	.721	.581	.402																
5	.860	.767	.669	.521	.354															
6	.888	.806	.723	.613	.477	.310														
7	.913	.835	.764	.669	.577	.429	.277													
8	.935	.863	.804	.719	.633	.531	.392	.248												
9	.950	.892	.838	.754	.688	.588	.498	.358	.223											
10	.960	.910	.875	.792	.727	.640	.560	.465	.327	.202										
11	.969	.927	.894	.833	.769	.679	.619	.529	.435	.298	.185									
12	.977	.940	.915	.850	.819	.727	.654	.594	.502	.404	.275	.169								
13	.983	.954	.927	.873	.838	.783	.702	.631	.569	.475	.377	.250	.156							
14	.988	.967	.944	.908	.860	.804	.767	.677	.602	.548	.450	.344	.233	.146						
15	.992	.975	.958	.908	.875	.827	.788	.748	.648	.570	.511	.415	.321	.221	.135					
16	.996	.983	.967	.927	.898	.840	.810	.775	.719	.627	.560	.504	.388	.304	.208	.125				
17	1.00	.990	.977	.940	.915	.863	.825	.796	.748	.704	.608	.533	.479	.369	.285	.198	.115			
18	1.00	1.00	.983	.954	.929	.875	.850	.810	.773	.735	.692	.577	.508	.463	.350	.265	.183	.108		
19	1.00	1.00	1.00	.963	.946	.890	.860	.840	.790	.758	.723	.667	.548	.490	.450	.327	.244	.171	.102	
20	1.00	1.00	1.00	.988	.954	.906	.877	.850	.821	.777	.746	.706	.635	.527	.477	.438	.298	.225	.163	.096
21	1.00	1.00	1.00	.992	.983	.915	.894	.869	.831	.813	.765	.731	.679	.615	.510	.467	.415	.271	.215	.152
22	1.00	1.00	1.00	.994	.990	.946	.908	.885	.850	.823	.804	.750	.713	.658	.596	.498	.446	.388	.256	.204
23	1.00	1.00	1.00	.996	.992	.956	.940	.900	.867	.842	.817	.792	.733	.696	.642	.581	.473	.425	.373	.242
24	1.00	1.00	1.00	.998	.994	.960	.952	.933	.885	.856	.835	.806	.779	.719	.681	.627	.554	.456	.404	.363
25	1.00	1.00	1.00	1.00	.996	.965	.956	.950	.919	.877	.848	.827	.794	.771	.702	.671	.602	.538	.435	.394
26	1.00	1.00	1.00	1.00	1.00	.969	.960	.954	.942	.908	.869	.840	.817	.785	.756	.694	.648	.590	.513	.425
27	1.00	1.00	1.00	1.00	1.00	.977	.965	.958	.950	.933	.898	.860	.831	.810	.769	.750	.675	.638	.571	.494
28	1.00	1.00	1.00	1.00	1.00	.979	.975	.963	.956	.946	.925	.883	.854	.825	.794	.763	.738	.665	.621	.556
29	1.00	1.00	1.00	1.00	1.00	.981	.977	.973	.960	.954	.942	.910	.877	.848	.813	.783	.752	.727	.650	.613
30	1.00	1.00	1.00	1.00	1.00	.983	.979	.975	.971	.958	.952	.933	.902	.873	.838	.800	.775	.744	.710	.644
31	1.00	1.00	1.00	1.00	1.00	.985	.981	.977	.973	.969	.956	.946	.929	.896	.867	.823	.794	.767	.727	.706
32	1.00	1.00	1.00	1.00	1.00	.988	.983	.979	.975	.971	.967	.952	.944	.925	.890	.852	.817	.768	.752	.721
33	1.00	1.00	1.00	1.00	1.00	.990	.985	.981	.977	.973	.969	.963	.950	.942	.921	.877	.844	.810	.777	.744
34	1.00	1.00	1.00	1.00	1.00	.992	.988	.983	.979	.975	.971	.967	.958	.948	.940	.913	.869	.835	.802	.767
35	1.00	1.00	1.00	1.00	1.00	.994	.990	.985	.981	.977	.973	.969	.965	.954	.946	.933	.910	.858	.827	.790
36	1.00	1.00	1.00	1.00	1.00	.996	.992	.988	.983	.979	.975	.971	.969	.960	.950	.940	.933	.906	.846	.815
37	1.00	1.00	1.00	1.00	1.00	.998	.994	.990	.985	.981	.977	.973	.971	.967	.956	.944	.940	.933	.898	.831
38	1.00	1.00	1.00	1.00	1.00	.996	.992	.988	.983	.979	.975	.973	.971	.963	.948	.944	.940	.929	.883	
39	1.00	1.00	1.00	1.00	1.00	1.00	.994	.990	.985	.981	.977	.975	.973	.969	.954	.948	.944	.938	.917	
40	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.992	.988	.983	.979	.977	.975	.973	.960	.952	.948	.942	.927

TOTAL OBSERVATIONS 480

TABLE 6.3.b. P(W < W\*) I LAUNCH OPPORTUNITIES IN J PERIODS (W\* = 20 M/SEC).  
BASED ON MAXIMUM WIND SPEEDS IN THE 10-15 KM LAYER OVER CAPE KENNEDY, FLORIDA.

PERIOD OF RECORD JANUARY 1956 - DECEMBER 1963.

CAPE KENNEDY, FLORIDA JUNE  
SPEEDS LESS THAN 025 MPS

PC ( I CONSECUTIVE SUCCESSES IN J PERIODS )

	I																			
J	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
1	.781																			
2	.863	.706																		
3	.892	.765	.554																	
4	.915	.821	.708	.606																
5	.933	.856	.760	.652	.567															
6	.950	.883	.813	.698	.610	.531														
7	.965	.906	.844	.744	.654	.573	.498													
8	.975	.925	.871	.788	.698	.615	.535	.471												
9	.981	.942	.892	.819	.740	.656	.573	.504	.448											
10	.988	.954	.910	.846	.781	.696	.610	.538	.479	.427										
11	.992	.963	.925	.869	.808	.735	.666	.571	.510	.458	.408									
12	.994	.971	.938	.890	.835	.775	.681	.602	.542	.490	.438	.392								
13	.996	.977	.948	.908	.858	.800	.717	.633	.571	.521	.467	.419	.375							
14	.998	.981	.958	.921	.879	.825	.752	.665	.600	.550	.496	.446	.400	.360						
15	1.00	.985	.967	.933	.896	.846	.775	.696	.629	.579	.523	.473	.425	.385	.346					
16	1.00	.990	.973	.946	.910	.860	.798	.727	.658	.608	.550	.498	.450	.410	.367	.335				
17	1.00	.994	.979	.954	.925	.875	.813	.748	.688	.638	.577	.523	.473	.435	.388	.354	.327			
18	1.00	.998	.985	.965	.940	.890	.827	.767	.717	.667	.604	.548	.496	.458	.408	.373	.346	.317		
19	1.00	1.00	.992	.973	.952	.904	.842	.781	.738	.696	.631	.573	.519	.481	.427	.392	.365	.335	.306	
20	1.00	1.00	.998	.981	.963	.919	.856	.796	.758	.723	.658	.598	.542	.504	.446	.408	.383	.354	.325	.296
21	1.00	1.00	1.00	.990	.973	.931	.871	.810	.775	.744	.683	.623	.565	.527	.465	.425	.400	.373	.344	.310
22	1.00	1.00	1.00	.998	.981	.944	.885	.825	.792	.765	.708	.646	.588	.550	.483	.442	.417	.390	.363	.325
23	1.00	1.00	1.00	1.00	.990	.956	.898	.840	.808	.781	.727	.669	.608	.573	.502	.458	.433	.406	.379	.340
24	1.00	1.00	1.00	1.00	.998	.967	.910	.854	.825	.798	.746	.692	.629	.594	.521	.475	.450	.423	.396	.354
25	1.00	1.00	1.00	1.00	1.00	.977	.921	.869	.842	.815	.760	.710	.650	.615	.540	.492	.467	.440	.413	.369
26	1.00	1.00	1.00	1.00	1.00	.988	.929	.883	.858	.831	.775	.729	.671	.635	.558	.508	.483	.456	.429	.383
27	1.00	1.00	1.00	1.00	1.00	.992	.938	.896	.875	.848	.790	.744	.690	.656	.577	.525	.500	.473	.446	.398
28	1.00	1.00	1.00	1.00	1.00	.994	.946	.906	.890	.865	.804	.758	.706	.679	.596	.542	.517	.490	.463	.413
29	1.00	1.00	1.00	1.00	1.00	.996	.950	.917	.902	.881	.819	.773	.721	.698	.617	.558	.533	.506	.479	.427
30	1.00	1.00	1.00	1.00	1.00	.998	.954	.927	.913	.894	.833	.788	.735	.715	.638	.577	.550	.523	.496	.442
31	1.00	1.00	1.00	1.00	1.00	1.00	.958	.935	.923	.908	.848	.802	.750	.729	.654	.596	.569	.540	.513	.456
32	1.00	1.00	1.00	1.00	1.00	1.00	.963	.944	.933	.919	.860	.817	.765	.744	.669	.615	.588	.558	.529	.471
33	1.00	1.00	1.00	1.00	1.00	1.00	.965	.950	.942	.929	.871	.831	.779	.758	.683	.631	.606	.577	.546	.485
34	1.00	1.00	1.00	1.00	1.00	1.00	.967	.954	.950	.940	.879	.844	.794	.773	.698	.646	.625	.596	.563	.500
35	1.00	1.00	1.00	1.00	1.00	1.00	.969	.958	.954	.948	.888	.854	.808	.788	.713	.660	.642	.615	.579	.515
36	1.00	1.00	1.00	1.00	1.00	1.00	.971	.963	.958	.954	.894	.863	.821	.802	.727	.675	.656	.635	.596	.529
37	1.00	1.00	1.00	1.00	1.00	1.00	.973	.967	.963	.958	.900	.871	.831	.817	.742	.690	.671	.652	.615	.544
38	1.00	1.00	1.00	1.00	1.00	1.00	.975	.971	.967	.963	.906	.879	.840	.829	.756	.704	.685	.667	.633	.560
39	1.00	1.00	1.00	1.00	1.00	1.00	.977	.975	.971	.967	.913	.888	.848	.840	.771	.719	.700	.681	.648	.577
40	1.00	1.00	1.00	1.00	1.00	1.00	.979	.977	.975	.971	.919	.896	.856	.848	.785	.733	.715	.696	.663	.594

TOTAL OBSERVATIONS 490

TABLE 6. 4.- P(W < W\*) I CONSECUTIVE LAUNCH OPPORTUNITIES IN J PERIODS (W\* = 25 M/SEC).  
BASED ON MAXIMUM WIND SPEEDS IN THE 10-15 KM LAYER OVER CAPE KENNEDY, FLORIDA.

PERIOD OF RECORD JANUARY 1956 - DECEMBER 1963.

CAPE KENNEDY, FLORIDA JUNE  
SPEEDS LESS THAN 025 MPS

P ( I SUCCESSSES IN J PERIODS )

	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
1	.781																			
2	.863	.706																		
3	.892	.813	.654																	
4	.915	.865	.767	.606																
5	.923	.881	.829	.729	.567															
6	.950	.903	.865	.798	.696	.531														
7	.965	.923	.883	.844	.769	.667	.498													
8	.975	.942	.898	.869	.823	.738	.642	.471												
9	.981	.956	.919	.883	.854	.795	.710	.621	.448											
10	.988	.963	.938	.906	.871	.833	.777	.690	.602	.427										
11	.992	.971	.946	.927	.896	.850	.817	.758	.673	.585	.408									
12	.994	.979	.956	.938	.917	.875	.838	.798	.748	.656	.569	.392								
13	.996	.983	.969	.948	.929	.896	.863	.823	.788	.733	.642	.554	.375							
14	.998	.988	.975	.963	.940	.910	.883	.846	.810	.777	.717	.627	.540	.360						
15	1.00	.992	.981	.969	.956	.921	.900	.865	.842	.815	.760	.615	.527	.346						
16	1.00	.998	.988	.975	.963	.938	.913	.879	.860	.838	.810	.750	.683	.606	.510	.335				
17	1.00	1.00	.996	.983	.969	.946	.929	.890	.875	.856	.833	.802	.735	.671	.598	.494	.327			
18	1.00	1.00	1.00	.994	.979	.954	.938	.902	.888	.871	.842	.825	.796	.719	.665	.585	.481	.317		
19	1.00	1.00	1.00	1.00	.992	.969	.946	.910	.896	.885	.867	.846	.817	.785	.708	.656	.573	.471	.306	
20	1.00	1.00	1.00	1.00	1.00	.985	.963	.919	.902	.892	.883	.863	.840	.804	.779	.700	.646	.563	.460	.296
21	1.00	1.00	1.00	1.00	1.00	.998	.981	.938	.908	.899	.890	.881	.858	.827	.798	.771	.694	.638	.552	.446
22	1.00	1.00	1.00	1.00	1.00	1.00	.996	.956	.927	.904	.896	.888	.881	.846	.821	.792	.767	.688	.627	.540
23	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.975	.944	.925	.902	.894	.888	.873	.840	.813	.790	.763	.679	.617
24	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.983	.960	.942	.925	.900	.894	.883	.867	.831	.808	.788	.758	.669
25	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.985	.971	.956	.942	.925	.900	.892	.879	.858	.825	.806	.783	.754
26	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.988	.973	.969	.954	.942	.925	.898	.892	.871	.852	.821	.802	.783
27	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.990	.975	.971	.967	.952	.942	.923	.898	.888	.865	.846	.817	.802
28	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.992	.977	.973	.969	.965	.950	.942	.921	.896	.883	.858	.840	.817
29	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.994	.979	.975	.971	.967	.963	.948	.942	.917	.894	.879	.850	.840
30	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.996	.981	.977	.973	.967	.965	.960	.948	.940	.913	.892	.873	.848
31	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.998	.983	.979	.975	.971	.967	.963	.960	.946	.938	.908	.888	.871
32	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.985	.981	.977	.973	.969	.965	.963	.958	.944	.935	.904	.885	
33	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.990	.983	.979	.975	.971	.967	.965	.963	.954	.942	.933	.900	
34	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.992	.988	.981	.977	.973	.969	.967	.965	.960	.950	.940	.931	
35	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.994	.990	.985	.979	.975	.971	.969	.967	.965	.956	.946	.938	
36	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.996	.992	.988	.983	.977	.973	.971	.969	.967	.963	.952	.942	
37	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.998	.994	.990	.985	.981	.975	.973	.971	.969	.967	.958	.948	
38	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.996	.992	.988	.983	.979	.975	.973	.971	.969	.965	.954	
39	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.994	.990	.985	.981	.977	.975	.973	.971	.969	.960	
40	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.992	.988	.983	.979	.977	.975	.973	.971	.967	
TOTAL OBSERVATIONS	480																			

TABLE 6.4.b. P(W < W\*) I LAUNCH OPPORTUNITIES IN J PERIODS (W\* = 25 M/SEC).  
BASED ON MAXIMUM WIND SPEEDS IN THE 10-.5 KM LAYER OVER CAPE KENNEDY, FLORIDA.  
PERIOD OF RECORD JANUARY 1956 - DECEMBER 1963.

CAPE KENNEDY, FLORIDA JUNE  
SPEEDS LESS THAN 030 MPS

PC ( I CONSECUTIVE SUCCESSES IN J PERIODS )

	I																			
J	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
1	.267																			
2	.908	.827																		
3	.929	.865	.792																	
4	.946	.902	.827	.752																
5	.958	.923	.863	.790	.729															
6	.971	.938	.898	.821	.758	.704														
7	.981	.950	.917	.852	.788	.733	.679													
8	.985	.963	.933	.881	.817	.763	.706	.658												
9	.988	.973	.948	.902	.844	.792	.733	.685	.638											
10	.990	.979	.963	.921	.871	.819	.760	.713	.665	.619										
11	.992	.983	.973	.938	.890	.846	.785	.740	.692	.646	.602									
12	.994	.988	.979	.954	.906	.873	.810	.765	.719	.673	.627	.588								
13	.996	.992	.983	.965	.921	.892	.835	.790	.744	.700	.652	.613	.573							
14	.998	.994	.988	.971	.935	.908	.860	.815	.769	.725	.677	.638	.596	.560						
15	1.00	.996	.992	.977	.946	.923	.877	.840	.794	.750	.700	.663	.619	.583	.548					
16	1.00	.998	.994	.983	.954	.938	.892	.865	.819	.775	.723	.685	.642	.606	.571	.535				
17	1.00	1.00	.996	.990	.963	.948	.904	.881	.844	.800	.746	.708	.663	.629	.594	.558	.523			
18	1.00	1.00	.998	.994	.971	.956	.917	.896	.869	.825	.769	.731	.683	.650	.617	.581	.544	.513		
19	1.00	1.00	1.00	.996	.979	.965	.927	.908	.885	.850	.792	.754	.704	.671	.638	.604	.565	.531	.504	
20	1.00	1.00	1.00	.998	.985	.973	.935	.921	.900	.873	.815	.777	.725	.692	.658	.625	.585	.550	.523	.496
21	1.00	1.00	1.00	1.00	.990	.979	.944	.931	.913	.890	.833	.800	.746	.713	.679	.646	.604	.569	.542	.513
22	1.00	1.00	1.00	1.00	.994	.985	.952	.940	.925	.904	.856	.821	.767	.733	.700	.667	.623	.585	.560	.529
23	1.00	1.00	1.00	1.00	.998	.990	.960	.948	.935	.917	.871	.842	.785	.754	.721	.688	.642	.602	.577	.546
24	1.00	1.00	1.00	1.00	1.00	.994	.969	.956	.944	.929	.883	.863	.804	.773	.742	.708	.660	.619	.594	.563
25	1.00	1.00	1.00	1.00	1.00	.998	.975	.965	.952	.940	.894	.877	.823	.792	.760	.729	.679	.635	.610	.579
26	1.00	1.00	1.00	1.00	1.00	1.00	.981	.973	.960	.948	.904	.890	.842	.810	.779	.748	.698	.652	.627	.596
27	1.00	1.00	1.00	1.00	1.00	1.00	.988	.979	.961	.956	.913	.900	.854	.829	.798	.767	.717	.669	.644	.613
28	1.00	1.00	1.00	1.00	1.00	1.00	.992	.985	.977	.965	.919	.910	.865	.848	.817	.785	.735	.685	.660	.629
29	1.00	1.00	1.00	1.00	1.00	1.00	.994	.990	.983	.973	.925	.919	.873	.860	.835	.804	.754	.702	.677	.646
30	1.00	1.00	1.00	1.00	1.00	1.00	.996	.994	.988	.981	.931	.925	.881	.871	.854	.823	.773	.719	.694	.663
31	1.00	1.00	1.00	1.00	1.00	1.00	.998	.996	.992	.985	.938	.931	.890	.879	.867	.842	.792	.735	.710	.679
32	1.00	1.00	1.00	1.00	1.00	1.00	.998	.996	.990	.944	.938	.896	.888	.877	.860	.810	.752	.727	.696	
33	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.998	.994	.950	.944	.902	.896	.885	.873	.829	.769	.744	.713	
34	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.998	.956	.950	.908	.902	.894	.883	.848	.785	.760	.729	
35	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.963	.956	.915	.908	.902	.892	.860	.802	.777	.746	
36	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.967	.963	.921	.915	.908	.900	.871	.819	.794	.763	
37	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.969	.967	.927	.921	.915	.908	.879	.833	.810	.779	
38	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.971	.969	.931	.927	.921	.915	.888	.846	.827	.796	
39	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.973	.971	.935	.931	.927	.921	.896	.856	.842	.813	
40	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.975	.973	.940	.935	.931	.927	.904	.867	.854	.829	

TOTAL OBSERVATIONS 480

TABLE 3. 5.2. P(W < W0) I CONSECUTIVE LAUNCH OPPORTUNITIES IN J PERIODS (W0 = 30 M/SEC).  
BASED ON MAXIMUM WIND SPEEDS IN THE 10-15 KM LAYER OVER CAPE KENNEDY, FLORIDA.  
PERIOD OF RECORD JANUARY 1956 - DECEMBER 1963.

CAPE KENNEDY, FLORIDA JUNE  
SPEEDS LESS THAN 030 MPS

P ( I SUCCESSES IN J PERIODS )

	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
1	.867																			
2	.908	.827																		
3	.929	.883	.792																	
4	.946	.908	.863	.758																
5	.958	.927	.892	.840	.729															
6	.971	.940	.915	.873	.817	.704														
7	.981	.954	.927	.900	.852	.800	.679													
8	.985	.971	.944	.913	.883	.838	.781	.658												
9	.988	.979	.965	.931	.896	.873	.819	.769	.638											
10	.990	.983	.975	.956	.917	.885	.854	.810	.756	.619										
11	.992	.988	.979	.969	.946	.908	.867	.846	.802	.744	.602									
12	.994	.990	.985	.975	.960	.938	.892	.856	.840	.794	.731	.588								
13	.996	.992	.988	.983	.971	.952	.925	.879	.850	.833	.783	.723	.573							
14	.998	.994	.990	.985	.981	.967	.942	.913	.873	.844	.823	.779	.713	.560						
15	1.00	.996	.992	.988	.983	.979	.963	.927	.908	.867	.831	.821	.773	.704	.548					
16	1.00	1.00	.994	.990	.985	.981	.977	.950	.923	.904	.852	.829	.817	.769	.696	.535				
17	1.00	1.00	1.00	.992	.988	.983	.979	.967	.948	.914	.888	.850	.825	.815	.765	.688	.523			
18	1.00	1.00	1.00	1.00	.990	.985	.981	.971	.965	.946	.900	.885	.846	.823	.813	.758	.679	.513		
19	1.00	1.00	1.00	1.00	1.00	.988	.983	.975	.969	.963	.929	.896	.883	.842	.821	.808	.752	.671	.504	
20	1.00	1.00	1.00	1.00	1.00	1.00	.985	.979	.973	.967	.946	.927	.892	.881	.838	.817	.804	.748	.663	.496
21	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.983	.977	.971	.950	.944	.925	.888	.881	.831	.813	.802	.744	.652
22	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.981	.975	.954	.948	.944	.921	.888	.879	.823	.810	.800	.740
23	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.979	.958	.952	.948	.942	.919	.888	.875	.821	.808	.798
24	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.963	.956	.952	.946	.942	.917	.888	.871	.817	.806
25	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.985	.960	.956	.950	.946	.942	.917	.888	.865	.815
26	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.988	.983	.960	.954	.950	.946	.942	.917	.885	.860
27	1.00	.990	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.990	.985	.981	.958	.954	.950	.946	.942	.915	.885
28	1.00	.990	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.992	.988	.983	.977	.958	.954	.950	.946	.942	.913
29	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.994	.990	.985	.979	.975	.958	.954	.950	.946	.940
30	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.996	.992	.988	.981	.977	.973	.958	.954	.950	.944
31	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.998	.994	.990	.983	.979	.975	.971	.958	.954	.948
32	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.996	.992	.985	.981	.977	.973	.971	.958	.952	.942
33	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.994	.989	.983	.979	.975	.973	.971	.956	.946
34	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.990	.985	.981	.977	.975	.973	.969	.959	.949
35	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.998	.988	.983	.979	.977	.975	.973	.963	.953
36	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.996	.985	.981	.979	.977	.975	.965	.955
37	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.994	.983	.981	.979	.977	.967	.957
38	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.992	.983	.981	.979	.969	.959
39	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.990	.983	.981	.971	.961
40	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.988	.983	.973	.963

TOTAL OBSERVATIONS 480

TABLE 6.5.b. P(W < W\*) : LAUNCH OPPORTUNITIES IN J PERIODS (W\* = 30 M/SEC).  
BASED ON MAXIMUM WIND SPEEDS IN THE 10-15 KM LAYER OVER CAPE KENNEDY, FLORIDA.  
PERIOD OF RECORD JANUARY 1956 - DECEMBER 1963.

CAPE KENNEDY, FLORIDA JUNE  
SPEEDS LESS THAN 035 MPS

PC ( I CONSECUTIVE SUCCESSES IN J PERIODS )

J	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
1	.927																			
2	.967	.890																		
3	.983	.921	.860																	
4	.990	.950	.883	.840																
5	.994	.963	.904	.843	.819															
6	.998	.971	.925	.883	.842	.800														
7	1.00	.979	.938	.904	.863	.821	.783													
8	1.00	.985	.948	.925	.883	.840	.804	.769												
9	1.00	.990	.958	.938	.904	.859	.823	.784	.756											
10	1.00	.992	.967	.948	.925	.877	.842	.804	.775	.744										
11	1.00	.994	.973	.958	.938	.896	.860	.821	.792	.763	.733									
12	1.00	.996	.979	.967	.948	.915	.879	.838	.808	.779	.750	.723								
13	1.00	.998	.983	.973	.958	.925	.898	.854	.825	.796	.765	.742	.717							
14	1.00	1.00	.988	.979	.967	.935	.917	.871	.842	.813	.779	.756	.733	.708						
15	1.00	1.00	.992	.983	.973	.946	.927	.888	.858	.829	.794	.771	.748	.725	.700					
16	1.00	1.00	.994	.988	.979	.954	.938	.904	.875	.846	.808	.785	.763	.740	.717	.692				
17	1.00	1.00	.996	.992	.983	.963	.948	.915	.892	.863	.823	.800	.777	.754	.731	.708	.683			
18	1.00	1.00	.998	.994	.988	.971	.956	.925	.908	.879	.838	.815	.792	.769	.746	.723	.700	.675		
19	1.00	1.00	1.00	.996	.992	.977	.965	.935	.919	.896	.852	.829	.806	.783	.760	.738	.715	.692	.667	
20	1.00	1.00	1.00	.998	.994	.983	.973	.944	.929	.913	.867	.844	.821	.798	.775	.752	.729	.706	.683	.658
21	1.00	1.00	1.00	1.00	.996	.988	.979	.952	.940	.923	.881	.858	.835	.813	.790	.767	.744	.721	.698	.675
22	1.00	1.00	1.00	1.00	.998	.992	.983	.960	.948	.933	.896	.873	.850	.827	.804	.781	.758	.735	.713	.690
23	1.00	1.00	1.00	1.00	1.00	.996	.988	.967	.956	.944	.904	.888	.865	.842	.819	.796	.773	.750	.727	.704
24	1.00	1.00	1.00	1.00	1.00	.998	.992	.973	.965	.952	.913	.902	.879	.856	.833	.810	.788	.765	.742	.719
25	1.00	1.00	1.00	1.00	1.00	1.00	.996	.979	.971	.960	.921	.910	.894	.871	.848	.825	.802	.779	.756	.733
26	1.00	1.00	1.00	1.00	1.00	1.00	.998	.985	.977	.969	.927	.919	.908	.885	.863	.840	.817	.794	.771	.748
27	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.992	.983	.975	.933	.927	.917	.900	.877	.854	.831	.808	.785	.763
28	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.996	.990	.981	.940	.933	.925	.915	.892	.869	.846	.823	.800	.777
29	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.998	.996	.988	.946	.940	.933	.923	.906	.883	.860	.838	.815	.792
30	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.998	.994	.952	.946	.940	.931	.921	.898	.875	.852	.829	.806
31	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.998	.958	.952	.946	.940	.929	.913	.890	.867	.844	.821
32	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.965	.958	.952	.946	.938	.927	.904	.881	.858	.835
33	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.969	.965	.958	.952	.946	.935	.919	.896	.873	.850
34	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.971	.969	.965	.958	.952	.944	.933	.910	.888	.865
35	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.973	.971	.969	.965	.958	.952	.942	.925	.902	.879
36	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.975	.973	.971	.969	.965	.958	.950	.940	.917	.894
37	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.977	.975	.973	.971	.969	.965	.958	.948	.931	.908
38	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.979	.977	.975	.973	.971	.969	.965	.956	.946	.923
39	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.981	.979	.977	.975	.973	.971	.969	.965	.954	.938
40	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.983	.981	.979	.977	.975	.973	.971	.969	.963	.952
TOTAL OBSERVATIONS 490																				

TABLE 6. 6.a. P(W < W\*) I CONSECUTIVE LAUNCH OPPORTUNITIES IN J PERIODS (W\* = 35 M/SEC).  
BASED ON MAXIMUM WIND SPEEDS IN THE 10-15 KM LAYER OVER CAPE KENNEDY, FLORIDA.  
PERIOD OF RECORD JANUARY 1956 - DECEMBER 1963.

CAPE KENNEDY, FLORIDA JUNE  
 SPFFDS LESS THAN 035 MPS

P ( I ) ACCESSSES IN J PERIODS )

	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
1	.927																			
2	.967	.890																		
3	.983	.942	.867																	
4	.990	.965	.921	.840																
5	.994	.975	.950	.906	.819															
6	.998	.981	.967	.935	.894	.800														
7	1.00	.990	.975	.952	.927	.881	.783													
8	1.00	.994	.988	.963	.944	.915	.873	.769												
9	1.00	.998	.990	.979	.956	.931	.906	.863	.756											
10	1.00	1.00	.994	.983	.975	.946	.923	.898	.854	.744										
11	1.00	1.00	.998	.990	.979	.967	.940	.915	.892	.848	.733									
12	1.00	1.00	1.00	.996	.985	.973	.960	.933	.906	.885	.842	.725								
13	1.00	1.00	1.00	1.00	.992	.983	.967	.954	.927	.900	.881	.838	.717							
14	1.00	1.00	1.00	1.00	.998	.990	.981	.960	.948	.923	.898	.877	.833	.708						
15	1.00	1.00	1.00	1.00	1.00	.996	.988	.979	.956	.942	.923	.894	.873	.831	.700					
16	1.00	1.00	1.00	1.00	1.00	1.00	.994	.985	.977	.952	.938	.921	.898	.873	.829	.692				
17	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.992	.983	.975	.948	.933	.919	.883	.873	.827	.683			
18	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.990	.981	.973	.944	.931	.913	.883	.873	.825	.675		
19	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.988	.979	.969	.942	.923	.913	.883	.873	.823	.667	
20	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.985	.977	.967	.935	.919	.913	.883	.873	.821	.658
21	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.985	.975	.960	.931	.919	.913	.883	.873	.819
22	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.983	.971	.956	.931	.919	.913	.883	.873
23	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.977	.969	.956	.931	.919	.913	.883
24	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.998	.971	.969	.956	.931	.919
25	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.990	.971	.969	.956	.931
26	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.996	.985	.971	.969	.956
27	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.992	.981	.971	.967	.956
28	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.998	.988	.979	.971	.969
29	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.994	.985	.977	.971
30	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.990	.983	.975
31	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.998	.988
32	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.996
33	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.994
34	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
35	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
36	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
37	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
38	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
39	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
40	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00

TOTAL OBSERVATIONS 480

TABLE 6.8.b. P(W < W\*) I LAUNCH OPPORTUNITIES IN J PERIODS (W\* = .35 M/SEC).  
 BASED ON MAXIMUM WIND SPEEDS IN THE 10-15 KM LAYER OVER CAPE KENNEDY, FLORIDA.  
 PERIOD OF RECORD JANUARY 1956 - DECEMBER 1963.



CAPE KENNEDY, FLORIDA JULY  
SPEEDS LESS THAN 640 MPS

PC ( I CONSECUTIVE SUCCESSSES IN J PERIODS )

	I																			
J	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
1	.965																			
2	.988	.942																		
3	.996	.960	.923																	
4	.998	.979	.935	.910																
5	1.00	.985	.948	.923	.898															
6	1.00	.990	.960	.935	.910	.885														
7	1.00	.994	.969	.948	.923	.899	.873													
8	1.00	.996	.975	.960	.935	.910	.885	.863												
9	1.00	.998	.981	.969	.948	.923	.898	.875	.852											
10	1.00	1.00	.983	.975	.960	.935	.910	.888	.865	.844										
11	1.00	1.00	.985	.981	.969	.948	.923	.900	.877	.854	.835									
12	1.00	1.00	.988	.983	.975	.960	.935	.913	.890	.869	.848	.829								
13	1.00	1.00	.990	.985	.981	.969	.948	.925	.902	.881	.860	.842	.823							
14	1.00	1.00	.992	.988	.983	.975	.960	.938	.915	.894	.873	.854	.835	.817						
15	1.00	1.00	.994	.990	.985	.981	.969	.950	.927	.906	.885	.867	.848	.829	.810					
16	1.00	1.00	.996	.992	.986	.983	.975	.963	.940	.919	.898	.879	.860	.842	.821	.806				
17	1.00	1.00	.998	.994	.990	.985	.981	.971	.952	.931	.910	.892	.873	.854	.831	.817	.802			
18	1.00	1.00	1.00	.996	.992	.988	.983	.977	.965	.944	.923	.904	.885	.867	.842	.827	.813	.798		
19	1.00	1.00	1.00	.998	.994	.990	.985	.983	.973	.956	.935	.917	.898	.879	.852	.838	.823	.808	.794	
20	1.00	1.00	1.00	1.00	.996	.992	.988	.985	.969	.948	.929	.910	.892	.863	.848	.833	.819	.804	.790	
21	1.00	1.00	1.00	1.00	.998	.994	.990	.988	.985	.975	.960	.942	.923	.904	.873	.858	.844	.829	.815	.800
22	1.00	1.00	1.00	1.00	1.00	.996	.992	.990	.988	.981	.971	.954	.935	.917	.883	.869	.854	.840	.825	.810
23	1.00	1.00	1.00	1.00	1.00	.998	.994	.992	.990	.988	.977	.965	.948	.929	.894	.879	.865	.850	.835	.821
24	1.00	1.00	1.00	1.00	1.00	1.00	.996	.994	.992	.990	.983	.975	.958	.942	.904	.890	.875	.860	.846	.831
25	1.00	1.00	1.00	1.00	1.00	1.00	.998	.996	.994	.992	.990	.981	.969	.952	.915	.900	.885	.871	.856	.842
26	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.998	.996	.994	.992	.988	.979	.963	.923	.910	.896	.881	.867	.852
27	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.998	.996	.994	.992	.985	.973	.931	.919	.906	.892	.877	.863
28	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.998	.996	.994	.990	.983	.940	.927	.915	.902	.888	.873
29	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.998	.996	.994	.988	.948	.935	.923	.910	.898	.883
30	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.998	.996	.992	.954	.944	.931	.919	.906	.894
31	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.998	.996	.956	.950	.940	.927	.915	.902
32	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.998	.958	.956	.946	.935	.923	.910
33	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.960	.958	.952	.942	.931	.919
34	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.963	.960	.958	.948	.938	.927
35	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.965	.963	.960	.954	.944	.933
36	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.967	.965	.963	.960	.950	.940
37	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.969	.967	.965	.963	.956	.946
38	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.971	.969	.967	.965	.963	.952
39	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.973	.971	.969	.967	.965	.958
40	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.975	.973	.971	.969	.967	.965

TOTAL OBSERVATIONS 480

TABLE 6. 7.a. P(W < W\*) I CONSECUTIVE LAUNCH OPPORTUNITIES IN J PERIODS (W\* = 40 M/SEC).  
BASED ON MAXIMUM WIND SPEEDS IN THE 10-15 KM LAYER OVER CAPE KENNEDY, FLORIDA.  
PERIOD OF RECORD JANUARY 1956 - DECEMBER 1969.

CAPE KENNEDY, FLORIDA JUNE  
SPEEDS LESS THAN 040 MPS

P ( I SUCCESSES IN J PERIODS )

J	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
1	.965																			
2	.988	.942																		
3	.996	.975	.923																	
4	.998	.988	.963	.910																
5	1.00	.994	.979	.952	.898															
6	1.00	1.00	.988	.971	.944	.885														
7	1.00	1.00	.998	.979	.967	.935	.873													
8	1.00	1.00	1.00	.994	.973	.963	.927	.863												
9	1.00	1.00	1.00	1.00	.988	.969	.958	.919	.852											
10	1.00	1.00	1.00	1.00	.996	.985	.965	.954	.910	.844										
11	1.00	1.00	1.00	1.00	1.00	.992	.983	.960	.950	.906	.835									
12	1.00	1.00	1.00	1.00	1.00	1.00	.988	.981	.956	.946	.902	.829								
13	1.00	1.00	1.00	1.00	1.00	1.00	.998	.985	.979	.952	.944	.900	.823							
14	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.996	.983	.977	.950	.944	.898	.817						
15	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.994	.981	.975	.950	.944	.896	.810					
16	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.992	.979	.975	.950	.944	.892	.806				
17	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.990	.979	.975	.950	.944	.888	.802			
18	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.988	.979	.975	.950	.944	.883	.798		
19	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.985	.979	.975	.950	.940	.883	.794	
20	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.985	.979	.975	.948	.938	.883	.790
21	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.985	.979	.975	.946	.935	.883
22	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.985	.979	.973	.944	.935
23	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.985	.977	.971	.944
24	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.985	.975	.969
25	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.983	.973
26	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.979
27	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
28	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
29	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
30	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
31	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
32	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
33	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
34	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
35	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
36	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
37	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
38	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
39	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
40	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00

TOTAL OBSERVATIONS 480

TABLE 6. 7.b. P(W < W\*) I LAUNCH OPPORTUNITIES IN J PERIODS (W\* = 40 M/S\*<sup>2</sup>).  
BASED ON MAXIMUM WIND SPEEDS IN THE 10-15 KM LAYER OVER CAPE KENNEDY, FLORIDA.  
PERIOD OF RECORD JANUARY 1956 - DECEMBER 1963.

CAPE KENNEDY, FLORIDA JULY  
SPEEDS LESS THAN 010 MPS

PC ( I CONSECUTIVE SUCCESSSES IN J PERIODS )

	I																			
J	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
1	.165																			
2	.254	.079																		
3	.323	.119	.038																	
4	.387	.159	.056	.020																
5	.446	.190	.075	.028	.012															
6	.496	.218	.093	.036	.018	.006														
7	.542	.244	.107	.044	.024	.010	.002													
8	.589	.270	.119	.052	.030	.014	.004	.000												
9	.631	.298	.131	.056	.036	.018	.006	.000	.000											
10	.669	.329	.143	.060	.042	.022	.008	.000	.000	.000										
11	.706	.359	.157	.065	.046	.026	.010	.000	.000	.000	.000									
12	.738	.391	.171	.071	.050	.030	.012	.000	.000	.000	.000	.000								
13	.766	.423	.185	.077	.054	.032	.014	.000	.000	.000	.000	.000	.000							
14	.794	.456	.200	.083	.058	.034	.016	.000	.000	.000	.000	.000	.000	.000						
15	.823	.488	.214	.089	.063	.036	.018	.000	.000	.000	.000	.000	.000	.000	.000					
16	.845	.518	.226	.095	.067	.038	.020	.000	.000	.000	.000	.000	.000	.000	.000	.000				
17	.867	.548	.238	.101	.071	.040	.022	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000			
18	.885	.573	.250	.107	.077	.042	.024	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000		
19	.901	.597	.264	.113	.083	.046	.026	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	
20	.915	.619	.278	.121	.089	.050	.028	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
21	.929	.639	.292	.131	.097	.054	.030	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
22	.942	.661	.306	.141	.107	.058	.032	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
23	.954	.681	.321	.151	.115	.065	.034	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
24	.964	.702	.335	.161	.123	.071	.036	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
25	.972	.722	.349	.171	.131	.077	.038	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
26	.978	.742	.363	.181	.139	.083	.040	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
27	.982	.758	.377	.190	.147	.089	.042	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
28	.986	.774	.389	.198	.155	.095	.044	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
29	.990	.788	.399	.206	.163	.101	.046	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
30	.992	.802	.409	.214	.171	.107	.048	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
31	.994	.817	.419	.222	.179	.113	.050	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
32	.996	.831	.429	.230	.188	.119	.052	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
33	.998	.845	.440	.238	.196	.125	.054	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
34	1.00	.859	.450	.246	.204	.131	.056	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
35	1.00	.873	.460	.254	.214	.137	.058	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
36	1.00	.887	.470	.262	.224	.145	.060	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
37	1.00	.899	.482	.270	.234	.153	.065	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
38	1.00	.911	.492	.278	.244	.161	.069	.002	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
39	1.00	.919	.502	.286	.254	.169	.073	.004	.002	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
40	1.00	.927	.510	.294	.264	.177	.077	.006	.004	.002	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000

TOTAL OBSERVATIONS 496

TABLE 7. 1.a. P(W < W\*) I CONSECUTIVE LUNCH OPPORTUNITIES IN J PERIODS (W\* = 10 M/SEC).  
BASED ON MAXIMUM WIND SPEEDS IN THE 10-15 KM LAYER OVER CAPE KENNEDY, FLORIDA.  
PERIOD OF RECORD JANUARY 1956 - DECEMBER 1963.

CAPE KENNEDY, FLORIDA JULY

SPEEDS LESS THAN 10 M/SEC

P (I < W\*) I LAUNCH OPPORTUNITIES (IN J PERIODS)

	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
1	.165																			
2	.254	.073																		
3	.323	.139	.038																	
4	.387	.177	.085	.020																
5	.446	.216	.115	.050	.012															
6	.496	.256	.141	.075	.034	.006														
7	.542	.294	.171	.089	.050	.028	.007													
8	.589	.327	.206	.107	.060	.038	.022	.000												
9	.631	.363	.238	.131	.071	.042	.032	.014	.000											
10	.669	.403	.266	.157	.085	.046	.036	.026	.012	.007										
11	.706	.444	.298	.179	.104	.050	.040	.032	.020	.008	.000									
12	.738	.484	.327	.210	.123	.058	.044	.036	.028	.012	.006	.000								
13	.766	.526	.353	.238	.147	.069	.048	.040	.032	.020	.008	.004	.000							
14	.794	.560	.385	.262	.173	.079	.054	.044	.036	.022	.016	.006	.002	.000						
15	.823	.597	.411	.286	.196	.095	.060	.048	.040	.024	.018	.014	.004	.000	.000					
16	.845	.637	.442	.308	.216	.109	.071	.052	.044	.024	.020	.016	.012	.000	.000	.000				
17	.867	.667	.480	.333	.238	.119	.085	.056	.048	.028	.022	.014	.014	.006	.000	.000	.000			
18	.885	.698	.512	.359	.268	.129	.095	.067	.052	.030	.024	.020	.016	.008	.004	.000	.000	.000		
19	.901	.722	.544	.391	.294	.149	.103	.077	.060	.032	.026	.022	.018	.010	.006	.002	.000	.000	.000	
20	.915	.740	.579	.415	.327	.169	.117	.087	.067	.036	.028	.024	.020	.012	.008	.004	.000	.000	.000	.000
21	.929	.758	.609	.444	.351	.198	.129	.101	.073	.038	.032	.026	.022	.014	.010	.006	.000	.000	.000	.000
22	.942	.776	.637	.476	.369	.226	.149	.113	.081	.040	.034	.030	.024	.016	.012	.008	.000	.000	.000	.000
23	.954	.794	.663	.506	.389	.244	.169	.133	.089	.044	.036	.032	.028	.018	.014	.010	.000	.000	.000	.000
24	.964	.815	.685	.542	.409	.260	.185	.149	.105	.048	.040	.034	.030	.022	.016	.012	.000	.000	.000	.000
25	.972	.833	.710	.575	.438	.278	.198	.165	.115	.063	.044	.036	.032	.026	.018	.014	.000	.000	.000	.000
26	.978	.849	.730	.607	.470	.300	.208	.175	.133	.071	.054	.040	.034	.030	.020	.016	.000	.000	.000	.000
27	.982	.865	.748	.631	.500	.329	.220	.183	.147	.087	.056	.050	.038	.032	.024	.018	.000	.000	.000	.000
28	.986	.877	.762	.653	.528	.359	.236	.192	.157	.103	.065	.054	.046	.036	.026	.022	.000	.000	.000	.000
29	.990	.889	.774	.671	.554	.389	.252	.206	.167	.115	.075	.058	.052	.042	.030	.024	.002	.000	.000	.000
30	.992	.903	.786	.690	.577	.415	.276	.212	.183	.127	.085	.063	.056	.050	.034	.028	.004	.000	.000	.000
31	.994	.915	.800	.708	.595	.435	.306	.218	.196	.141	.093	.071	.060	.054	.044	.030	.008	.000	.000	.000
32	.996	.925	.817	.726	.611	.460	.329	.232	.206	.155	.105	.075	.069	.058	.048	.040	.012	.000	.000	.000
33	.998	.935	.831	.746	.627	.482	.357	.244	.220	.171	.117	.079	.073	.067	.054	.042	.024	.000	.000	.000
34	1.00	.946	.845	.764	.643	.504	.385	.260	.228	.188	.133	.083	.077	.071	.065	.046	.028	.008	.000	.000
35	1.00	.956	.861	.780	.657	.528	.413	.278	.234	.200	.147	.093	.081	.075	.069	.058	.032	.010	.006	.000
36	1.00	.964	.877	.798	.669	.550	.442	.298	.240	.212	.159	.105	.089	.079	.073	.063	.046	.012	.008	.004
37	1.00	.970	.895	.817	.681	.569	.472	.319	.246	.222	.173	.115	.097	.085	.077	.067	.054	.022	.010	.006
38	1.00	.974	.909	.835	.698	.587	.496	.343	.252	.228	.188	.123	.109	.091	.081	.071	.060	.032	.016	.008
39	1.00	.978	.921	.849	.718	.607	.518	.363	.264	.234	.200	.131	.115	.105	.085	.075	.067	.038	.024	.014
40	1.00	.982	.931	.865	.734	.629	.542	.383	.274	.242	.210	.141	.119	.109	.101	.079	.073	.044	.028	.022

TOTAL OBSERVATIONS 496

TABLE 7.1.b. P(W < W\*) I LAUNCH OPPORTUNITIES IN J PERIODS (W\* = 10 M/SEC).  
 BASED ON MAXIMUM WIND SPEEDS IN THE 10-15 KM LAYER OVER CAPE KENNEDY, FLORIDA.  
 PERIOD OF RECORD JANUARY 1956 - DECEMBER 1963.

CAPE KENNEDY, FLORIDA JULY  
SPEEDS LESS THAN 015 MPS

PC ( I CONSECUTIVE SUCCESSES IN J PERIODS )

	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
1	.552																			
2	.696	.409																		
3	.780	.486	.335																	
4	.845	.560	.399	.272																
5	.889	.619	.462	.329	.218															
6	.921	.673	.524	.383	.260	.175														
7	.944	.714	.579	.438	.300	.210	.141													
8	.958	.752	.629	.492	.341	.242	.164	.115												
9	.970	.786	.671	.540	.381	.274	.196	.135	.097											
10	.980	.817	.710	.585	.419	.306	.222	.153	.117	.079										
11	.988	.845	.744	.625	.456	.337	.248	.171	.135	.097	.063									
12	.994	.869	.778	.659	.492	.367	.272	.190	.15	.081	.046									
13	.996	.889	.810	.692	.524	.397	.296	.206	.171	.126	.097	.060	.034							
14	.998	.907	.833	.774	.552	.427	.323	.222	.148	.145	.113	.073	.046	.024						
15	1.00	.921	.855	.746	.581	.454	.340	.240	.204	.150	.129	.085	.058	.030	.018					
16	1.00	.931	.875	.766	.601	.478	.375	.258	.222	.173	.143	.097	.071	.036	.022	.014				
17	1.00	.940	.891	.786	.621	.494	.401	.276	.240	.190	.157	.107	.083	.042	.026	.018	.010			
18	1.00	.946	.905	.804	.641	.508	.423	.294	.258	.204	.173	.117	.093	.048	.030	.022	.012	.008		
19	1.00	.952	.915	.819	.661	.522	.444	.310	.276	.227	.190	.129	.103	.054	.034	.026	.014	.010	.006	
20	1.00	.960	.923	.831	.681	.536	.462	.327	.292	.238	.206	.141	.115	.060	.038	.030	.016	.012	.008	.004
21	1.00	.966	.933	.841	.698	.552	.480	.341	.308	.252	.222	.155	.127	.069	.042	.034	.018	.014	.010	.006
22	1.00	.970	.942	.851	.712	.567	.500	.353	.325	.266	.236	.169	.139	.077	.046	.038	.020	.016	.012	.008
23	1.00	.974	.948	.861	.728	.577	.520	.367	.339	.280	.250	.181	.151	.085	.050	.042	.022	.018	.014	.010
24	1.00	.978	.952	.871	.742	.589	.536	.381	.353	.294	.264	.194	.161	.093	.054	.046	.024	.020	.016	.012
25	1.00	.982	.956	.879	.760	.601	.552	.395	.367	.308	.278	.206	.171	.099	.058	.050	.026	.022	.018	.014
26	1.00	.986	.960	.887	.778	.617	.560	.409	.381	.321	.292	.218	.181	.105	.063	.054	.028	.024	.020	.016
27	1.00	.990	.964	.895	.796	.633	.583	.423	.397	.333	.304	.230	.192	.111	.067	.058	.030	.026	.022	.018
28	1.00	.992	.968	.903	.815	.649	.597	.435	.411	.347	.315	.242	.202	.117	.071	.063	.032	.028	.024	.020
29	1.00	.994	.972	.911	.829	.665	.611	.448	.423	.361	.327	.252	.212	.123	.075	.067	.034	.030	.026	.022
30	1.00	.996	.974	.919	.841	.683	.625	.460	.435	.373	.339	.260	.222	.129	.079	.071	.036	.032	.028	.024
31	1.00	.998	.976	.927	.853	.700	.639	.472	.448	.385	.351	.269	.230	.135	.083	.075	.038	.034	.030	.026
32	1.00	1.00	.978	.935	.865	.716	.653	.484	.460	.397	.361	.276	.236	.141	.087	.079	.040	.036	.032	.028
33	1.00	1.00	.980	.944	.877	.732	.665	.496	.472	.400	.371	.284	.242	.147	.091	.083	.042	.038	.034	.030
34	1.00	1.00	.982	.950	.887	.748	.677	.508	.484	.421	.381	.292	.248	.153	.095	.087	.044	.040	.036	.032
35	1.00	1.00	.984	.956	.895	.764	.688	.518	.496	.433	.391	.300	.254	.159	.099	.091	.046	.042	.038	.034
36	1.00	1.00	.986	.960	.903	.780	.700	.528	.508	.444	.401	.308	.260	.165	.103	.095	.048	.044	.040	.036
37	1.00	1.00	.988	.964	.911	.794	.712	.540	.518	.455	.411	.317	.266	.169	.107	.099	.050	.046	.042	.038
38	1.00	1.00	.990	.968	.919	.808	.724	.552	.530	.470	.421	.325	.272	.175	.109	.103	.052	.048	.044	.040
39	1.00	1.00	.992	.972	.927	.821	.734	.565	.542	.482	.431	.333	.279	.181	.113	.105	.054	.050	.046	.042
40	1.00	1.00	.994	.976	.935	.833	.744	.577	.554	.494	.444	.341	.284	.188	.117	.109	.056	.052	.048	.044

TOTAL OBSERVATIONS 496

TABLE 7. 2-2. P(W < W\*) I CONSECUTIVE LAUNCH OPPORTUNITIES IN J PERIODS (W\* = 15 M/SEC).  
BASED ON MAXIMUM WIND SPEEDS IN THE 10-15 KM LAYER OVER CAPE KENNEDY, FLORIDA.  
PERIOD OF RECORD JANUARY 1956 - DECEMBER 1963.

CAPE KENNEDY, FLORIDA JULY  
SPEEDS LESS THAN 015 MPS

P ( I SUCCESSSES IN J PERIODS )

	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
1	.552																			
2	.696	.409																		
3	.780	.542	.335																	
4	.845	.639	.462	.272																
5	.889	.720	.560	.391	.218															
6	.921	.786	.635	.496	.325	.175														
7	.944	.841	.702	.581	.425	.264	.141													
8	.956	.889	.754	.651	.508	.367	.220	.115												
9	.970	.923	.800	.712	.593	.446	.319	.177	.097											
10	.980	.946	.841	.760	.651	.520	.397	.260	.153	.070										
11	.988	.960	.877	.801	.712	.593	.468	.333	.232	.127	.063									
12	.994	.972	.909	.825	.758	.663	.536	.411	.294	.198	.109	.046								
13	.996	.986	.931	.853	.786	.716	.609	.486	.367	.258	.169	.089	.034							
14	.998	.992	.956	.873	.819	.750	.665	.563	.442	.321	.228	.143	.071	.024						
15	1.00	.996	.970	.903	.837	.788	.700	.627	.512	.403	.284	.196	.119	.052	.018					
16	1.00	1.00	.980	.921	.871	.806	.742	.665	.583	.477	.363	.252	.161	.093	.042	.014				
17	1.00	1.00	.992	.931	.893	.845	.762	.708	.629	.538	.435	.329	.208	.129	.081	.034	.010			
18	1.00	1.00	.994	.952	.905	.865	.806	.726	.679	.583	.500	.401	.288	.163	.115	.071	.024	.008		
19	1.00	1.00	.998	.960	.927	.883	.827	.770	.702	.631	.548	.460	.367	.240	.143	.105	.058	.016	.006	
20	1.00	1.00	1.00	.970	.940	.907	.849	.792	.742	.653	.599	.508	.419	.327	.212	.127	.095	.048	.008	.004
21	1.00	1.00	1.00	.976	.954	.923	.879	.815	.760	.698	.611	.567	.462	.381	.302	.188	.111	.087	.032	.006
22	1.00	1.00	1.00	.980	.966	.935	.901	.847	.778	.720	.647	.595	.520	.425	.355	.274	.163	.101	.071	.026
23	1.00	1.00	1.00	.984	.974	.948	.915	.873	.810	.744	.685	.643	.550	.490	.397	.327	.244	.147	.081	.063
24	1.00	1.00	1.00	.988	.978	.958	.931	.869	.837	.780	.706	.667	.599	.524	.464	.365	.296	.220	.121	.075
25	1.00	1.00	1.00	.990	.984	.964	.942	.909	.855	.806	.746	.690	.627	.571	.502	.429	.337	.266	.192	.109
26	1.00	1.00	1.00	.992	.988	.968	.952	.921	.879	.823	.774	.734	.653	.595	.552	.472	.399	.302	.240	.173
27	1.00	1.00	1.00	.994	.990	.972	.958	.938	.889	.849	.796	.762	.702	.617	.577	.524	.444	.359	.270	.222
28	1.00	1.00	1.00	.996	.992	.974	.964	.946	.909	.859	.827	.782	.738	.659	.603	.550	.494	.403	.321	.244
29	1.00	1.00	1.00	.998	.994	.976	.968	.954	.923	.877	.841	.810	.764	.696	.643	.575	.522	.456	.367	.278
30	1.00	1.00	1.00	1.00	.996	.978	.972	.958	.940	.889	.861	.827	.792	.726	.677	.615	.550	.486	.421	.321
31	1.00	1.00	1.00	1.00	1.00	.980	.976	.962	.950	.903	.877	.845	.810	.762	.704	.655	.587	.514	.454	.377
32	1.00	1.00	1.00	1.00	1.00	.986	.978	.968	.958	.917	.887	.865	.827	.790	.734	.685	.625	.548	.492	.409
33	1.00	1.00	1.00	1.00	1.00	.988	.984	.972	.964	.931	.899	.877	.845	.810	.764	.716	.657	.585	.528	.452
34	1.00	1.00	1.00	1.00	1.00	.990	.986	.980	.968	.944	.913	.889	.855	.833	.784	.750	.690	.615	.565	.486
35	1.00	1.00	1.00	1.00	1.00	.992	.988	.984	.976	.954	.923	.901	.867	.847	.808	.768	.726	.649	.595	.516
36	1.00	1.00	1.00	1.00	1.00	.994	.990	.986	.982	.970	.945	.909	.879	.859	.827	.792	.746	.688	.627	.554
37	1.00	1.00	1.00	1.00	1.00	.996	.992	.988	.984	.980	.952	.921	.891	.867	.843	.808	.772	.708	.669	.587
38	1.00	1.00	1.00	1.00	1.00	.998	.994	.990	.986	.982	.968	.935	.907	.877	.855	.823	.792	.734	.690	.631
39	1.00	1.00	1.00	1.00	1.00	1.00	.996	.992	.988	.984	.974	.952	.925	.891	.867	.835	.808	.758	.714	.657
40	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.994	.990	.986	.978	.960	.944	.911	.879	.851	.821	.780	.738	.688

TOTAL OBSERVATIONS 436

TABLE 2. P(W < W\*) I LAUNCH OPPORTUNITIES IN J PERIODS (W\* = 35 M/SEC),  
BASED ON MAXIMUM WIND SPEEDS IN THE 10-15 KM LAYER OVER CAPE KENNEDY, FLORIDA.  
PERIOD OF RECORD JANUARY 1956 - DECEMBER 1963.

CAPE KENNEDY, FLORIDA JULY  
SPEEDS LESS THAN 20 MPS

PC ( I CONSECUTIVE SUCCESSES IN J PERIODS )

	I																			
J	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
1	.815																			
2	.895	.736																		
3	.929	.796	.677																	
4	.950	.853	.736	.623																
5	.964	.887	.790	.673	.575															
6	.972	.915	.845	.720	.621	.532														
7	.976	.938	.877	.766	.663	.577	.492													
8	.980	.952	.905	.813	.704	.617	.532	.452												
9	.984	.962	.927	.849	.744	.655	.571	.486	.421											
10	.988	.972	.942	.881	.786	.694	.607	.516	.456	.391										
11	.992	.980	.952	.907	.823	.734	.643	.544	.486	.421	.365									
12	.996	.988	.962	.925	.853	.776	.681	.573	.514	.448	.395	.341								
13	.998	.992	.970	.940	.875	.810	.722	.603	.542	.472	.421	.371	.317							
14	1.00	.996	.978	.954	.891	.837	.762	.635	.573	.496	.446	.397	.345	.292						
15	1.00	.998	.984	.966	.905	.857	.792	.667	.605	.522	.470	.421	.369	.319	.270					
16	1.00	1.00	.990	.976	.917	.873	.815	.696	.637	.550	.496	.446	.391	.341	.296	.248				
17	1.00	1.00	.994	.984	.927	.887	.833	.724	.665	.579	.524	.472	.413	.361	.319	.272	.228			
18	1.00	1.00	.998	.990	.935	.899	.847	.749	.694	.605	.552	.500	.438	.381	.339	.294	.248	.212		
19	1.00	1.00	1.00	.994	.942	.911	.859	.768	.722	.651	.579	.528	.464	.403	.359	.313	.266	.230	.196	
20	1.00	1.00	1.00	.998	.946	.921	.869	.786	.746	.657	.605	.554	.490	.427	.381	.335	.282	.246	.214	.179
21	1.00	1.00	1.00	1.00	.948	.929	.879	.802	.766	.683	.631	.581	.514	.452	.405	.357	.298	.262	.230	.198
22	1.00	1.00	1.00	1.00	.952	.935	.897	.817	.784	.708	.657	.607	.538	.474	.429	.379	.317	.278	.246	.214
23	1.00	1.00	1.00	1.00	.954	.942	.893	.831	.800	.728	.683	.633	.563	.496	.452	.401	.335	.296	.262	.230
24	1.00	1.00	1.00	1.00	.956	.948	.899	.845	.812	.744	.708	.659	.587	.518	.474	.421	.353	.315	.278	.246
25	1.00	1.00	1.00	1.00	.958	.952	.903	.857	.829	.762	.728	.685	.611	.540	.496	.442	.369	.333	.294	.262
26	1.00	1.00	1.00	1.00	.960	.956	.907	.865	.843	.778	.746	.710	.635	.563	.518	.462	.385	.349	.310	.278
27	1.00	1.00	1.00	1.00	.962	.958	.913	.871	.855	.790	.762	.730	.661	.585	.540	.482	.401	.365	.325	.294
28	1.00	1.00	1.00	1.00	.964	.960	.917	.877	.863	.804	.776	.748	.685	.609	.563	.502	.417	.381	.339	.308
29	1.00	1.00	1.00	1.00	.966	.962	.921	.883	.869	.817	.790	.764	.706	.633	.585	.522	.433	.397	.353	.323
30	1.00	1.00	1.00	1.00	.968	.964	.925	.889	.873	.827	.802	.778	.724	.655	.607	.542	.450	.413	.367	.337
31	1.00	1.00	1.00	1.00	.970	.966	.929	.895	.877	.835	.815	.790	.742	.673	.629	.563	.466	.429	.381	.351
32	1.00	1.00	1.00	1.00	.972	.968	.933	.901	.881	.841	.825	.802	.756	.690	.649	.583	.482	.446	.395	.365
33	1.00	1.00	1.00	1.00	.974	.970	.936	.907	.885	.847	.833	.815	.770	.704	.665	.603	.498	.462	.409	.379
34	1.00	1.00	1.00	1.00	.976	.972	.942	.913	.889	.853	.839	.825	.784	.716	.677	.623	.514	.478	.423	.393
35	1.00	1.00	1.00	1.00	.978	.974	.946	.919	.893	.859	.845	.833	.798	.728	.690	.637	.530	.494	.438	.407
36	1.00	1.00	1.00	1.00	.980	.976	.950	.925	.897	.865	.851	.839	.810	.740	.700	.649	.546	.510	.452	.421
37	1.00	1.00	1.00	1.00	.982	.978	.954	.931	.901	.871	.857	.845	.821	.752	.710	.661	.558	.526	.466	.435
38	1.00	1.00	1.00	1.00	.984	.980	.958	.938	.905	.877	.863	.851	.829	.762	.720	.671	.571	.542	.480	.450
39	1.00	1.00	1.00	1.00	.985	.982	.962	.944	.909	.883	.869	.857	.837	.770	.730	.681	.583	.556	.494	.464
40	1.00	1.00	1.00	1.00	.988	.984	.966	.950	.915	.889	.875	.863	.845	.776	.738	.692	.593	.571	.508	.478

TOTAL OBSERVATIONS 496

TABLE 7. 3.a. P(W < W\*) I CONSECUTIVE LAUNCH (OPPORTUNITIES IN J PERIODS (W\* = 20 M/SEC).

BASED ON MAXIMUM WIND SPEEDS IN THE 10-15 KM LAYER OVER CAPE KENNEDY, FLORIDA.

PERIOD OF RECORD JANUARY 1956 - DECEMBER 1963.

CAPE KENNEDY, FLORIDA JULY  
SPEEDS LESS THAN 20 MPH

P ( I SUCCESSES IN J PERIODS )

J	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
1	.815																			
2	.895	.736																		
3	.929	.830	.677																	
4	.950	.849	.800	.623																
5	.964	.917	.863	.758	.575															
6	.972	.938	.901	.835	.716	.532														
7	.976	.954	.923	.887	.806	.675	.490													
8	.980	.964	.944	.909	.871	.776	.633	.452												
9	.984	.972	.956	.929	.897	.851	.744	.591	.421											
10	.988	.980	.964	.946	.917	.877	.827	.712	.556	.391										
11	.992	.984	.976	.954	.935	.897	.861	.800	.693	.520	.365									
12	.996	.980	.977	.970	.944	.919	.879	.839	.780	.653	.490	.361								
13	.998	.994	.984	.976	.962	.929	.901	.857	.827	.754	.627	.464	.317							
14	1.00	.996	.992	.980	.970	.952	.911	.877	.847	.810	.728	.607	.435	.292						
15	1.00	1.00	.994	.990	.976	.962	.933	.889	.865	.833	.702	.710	.585	.407	.270					
16	1.00	1.00	1.00	.992	.988	.972	.946	.913	.875	.853	.815	.776	.690	.365	.381	.248				
17	1.00	1.00	1.00	1.00	.990	.986	.960	.923	.901	.865	.837	.798	.758	.675	.546	.353	.228			
18	1.00	1.00	1.00	1.00	1.00	.988	.980	.942	.905	.895	.853	.821	.782	.744	.663	.524	.327	.212		
19	1.00	1.00	1.00	1.00	1.00	1.00	.984	.968	.919	.890	.847	.841	.804	.762	.736	.649	.498	.306	.196	
20	1.00	1.00	1.00	1.00	1.00	1.00	.998	.976	.950	.900	.893	.879	.825	.787	.750	.724	.633	.476	.286	.179
21	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.992	.940	.942	.971	.987	.967	.902	.768	.736	.710	.619	.458	.268
22	0	1.00	1.00	1.00	1.00	1.00	1.00	.998	.978	.952	.935	.893	.877	.847	.790	.752	.720	.702	.605	.440
23	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.997	.972	.946	.920	.901	.850	.839	.776	.730	.712	.694	.591
24	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.994	.980	.966	.940	.917	.865	.851	.831	.752	.720	.704	.683
25	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.996	.990	.976	.960	.927	.901	.859	.843	.810	.738	.712	.696
26	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.998	.992	.988	.972	.948	.909	.897	.853	.825	.796	.730	.704
27	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.994	.990	.984	.962	.927	.905	.893	.837	.815	.784	.722
28	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.998	.992	.988	.978	.944	.921	.901	.881	.829	.802	.774
29	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.996	.990	.982	.960	.940	.915	.893	.873	.819	.792
30	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.994	.986	.964	.956	.935	.907	.887	.865	.808
31	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.990	.970	.960	.952	.929	.901	.881	.857
32	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.974	.966	.956	.948	.923	.895	.875
33	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.988	.970	.962	.947	.944	.917	.889
34	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.994	.982	.966	.958	.948	.940	.909
35	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.998	.998	.978	.962	.954	.944	.935
36	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.994	.984	.974	.958	.950	.940	
37	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.998	.992	.980	.970	.954	.946	
38	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.996	.990	.976	.966	.950	
39	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.994	.988	.972	.962	
40	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.992	.986	.968	

TOTAL OBSERVATIONS 496

TABLE 2 3.b. P(W < W\*) I LAUNCH OPPORTUNITIES IN J PERIODS (W\* = 20 M/SEC).  
BASED ON MAXIMUM WIND SPEEDS IN THE 10-15 KM LAYER OVER CAPE KENNEDY, FLORIDA.  
PERIOD OF RECORD JANUARY 1956 - DECEMBER 1963.



CAPE KENNEDY, FLORIDA JULY  
SPEEDS LESS THAN 25 MPS

PC : 1 (CONSECUTIVE SUCCESS IN J PERIODS)

	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
1	.931																			
2	.964	.897																		
3	.982	.929	.863																	
4	.990	.964	.893	.831																
5	.996	.992	.925	.859	.800															
6	1.00	.990	.958	.889	.827	.774														
7	1.00	.996	.974	.919	.855	.800	.746													
8	1.00	1.00	.982	.950	.883	.829	.772	.719												
9	1.00	1.00	.988	.964	.911	.857	.800	.740	.692											
10	1.00	1.00	.992	.974	.940	.885	.829	.764	.712	.667										
11	1.00	1.00	.994	.982	.952	.913	.857	.788	.734	.680	.643									
12	1.00	1.00	.996	.988	.960	.940	.885	.813	.756	.710	.663	.619								
13	1.00	1.00	.998	.992	.966	.952	.911	.837	.778	.732	.685	.637	.599							
14	1.00	1.00	1.00	.998	.972	.960	.938	.859	.800	.754	.708	.657	.617	.579						
15	1.00	1.00	1.00	.998	.978	.966	.950	.891	.821	.776	.730	.677	.637	.595	.560					
16	1.00	1.00	1.00	1.00	.984	.972	.958	.903	.841	.784	.742	.698	.657	.613	.577	.542				
17	1.00	1.00	1.00	1.00	.988	.978	.966	.913	.861	.817	.772	.718	.677	.631	.595	.558	.524			
18	1.00	1.00	1.00	1.00	.992	.984	.972	.921	.881	.837	.792	.736	.698	.667	.613	.577	.540	.508		
19	1.00	1.00	1.00	1.00	.994	.988	.978	.929	.893	.857	.817	.764	.716	.667	.613	.595	.558	.524	.492	
20	1.00	1.00	1.00	1.00	.996	.992	.984	.935	.901	.870	.833	.772	.734	.683	.649	.613	.577	.547	.506	.478
21	1.00	1.00	1.00	1.00	.998	.994	.988	.964	.939	.921	.885	.840	.792	.750	.695	.663	.625	.580	.527	.492
22	1.00	1.00	1.00	1.00	1.00	.996	.992	.952	.917	.890	.877	.817	.770	.714	.661	.627	.613	.579	.538	.508
23	1.00	1.00	1.00	1.00	1.00	.998	.994	.954	.925	.909	.889	.831	.780	.732	.698	.663	.629	.597	.554	.524
24	1.00	1.00	1.00	1.00	1.00	1.00	.996	.964	.933	.917	.889	.851	.810	.750	.714	.679	.645	.613	.571	.540
25	1.00	1.00	1.00	1.00	1.00	1.00	.998	.968	.940	.925	.899	.863	.831	.780	.732	.696	.661	.629	.585	.556
26	1.00	1.00	1.00	1.00	1.00	1.00	.992	.966	.933	.917	.873	.853	.816	.786	.750	.714	.677	.645	.599	.571
27	1.00	1.00	1.00	1.00	1.00	1.00	.976	.950	.940	.925	.883	.863	.816	.786	.732	.696	.661	.613	.585	
28	1.00	1.00	1.00	1.00	1.00	1.00	.960	.954	.946	.933	.893	.873	.825	.789	.750	.714	.679	.627	.599	
29	1.00	1.00	1.00	1.00	1.00	1.00	.982	.958	.950	.940	.903	.883	.835	.816	.770	.731	.698	.641	.613	
30	1.00	1.00	1.00	1.00	1.00	1.00	.984	.962	.954	.946	.913	.893	.845	.825	.788	.752	.716	.655	.627	
31	1.00	1.00	1.00	1.00	1.00	1.00	.986	.964	.957	.950	.921	.903	.855	.835	.806	.770	.736	.669	.641	
32	1.00	1.00	1.00	1.00	1.00	1.00	.988	.966	.962	.954	.925	.913	.865	.845	.825	.788	.754	.685	.655	
33	1.00	1.00	1.00	1.00	1.00	1.00	.990	.968	.964	.958	.935	.921	.876	.855	.835	.806	.772	.702	.671	
34	1.00	1.00	1.00	1.00	1.00	1.00	.992	.970	.966	.962	.942	.929	.885	.865	.845	.825	.790	.718	.688	
35	1.00	1.00	1.00	1.00	1.00	1.00	.994	.972	.968	.964	.946	.935	.893	.875	.855	.835	.808	.736	.704	
36	1.00	1.00	1.00	1.00	1.00	1.00	.996	.974	.970	.966	.954	.942	.901	.885	.865	.845	.825	.750	.720	
37	1.00	1.00	1.00	1.00	1.00	1.00	.998	.976	.972	.968	.958	.948	.908	.893	.875	.855	.835	.764	.736	
38	1.00	1.00	1.00	1.00	1.00	1.00	.998	.978	.974	.970	.962	.954	.913	.911	.885	.865	.845	.778	.750	
39	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.990	.976	.972	.966	.958	.919	.917	.893	.875	.855	.786	.764	
40	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.992	.978	.974	.970	.962	.925	.913	.901	.885	.865	.794	.778	

TOTAL OBSERVATIONS 436

TABLE 7. 4.a. P(W < W0) : CONSECUTIVE LAUNCH OPPORTUNITIES IN J PERIODS (W0 = 25 M/SEC).  
BASED ON MAXIMUM WIND SPEEDS IN THE 10-15 KM LAYER OVER CAPE KENNEDY, FLORIDA.  
PERIOD OF RECORD JANUARY 1966 - DECEMBER 1963.

CAPE KENNEDY, FLORIDA JULY  
SPEEDS LESS THAN 025 MPS

P ( I SUCCESSFUL IN J PERIODS )

	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
1	.931																			
2	.964	.897																		
3	.982	.946	.863																	
4	.990	.974	.925	.831																
5	.996	.984	.962	.907	.800															
6	1.00	.992	.974	.950	.891	.774														
7	1.00	1.00	.984	.966	.935	.879	.746													
8	1.00	1.00	.996	.980	.952	.927	.865	.718												
9	1.00	1.00	.998	.994	.968	.946	.917	.847	.692											
10	1.00	1.00	1.00	.996	.984	.964	.938	.903	.829	.667										
11	1.00	1.00	1.00	1.00	.988	.980	.960	.927	.889	.813	.647									
12	1.00	1.00	1.00	1.00	.996	.994	.976	.956	.915	.877	.706	.619								
13	1.00	1.00	1.00	1.00	.998	.994	.980	.972	.952	.901	.845	.778	.599							
14	1.00	1.00	1.00	1.00	1.00	.996	.992	.976	.968	.948	.887	.849	.766	.579						
15	1.00	1.00	1.00	1.00	1.00	1.00	.994	.990	.972	.964	.944	.869	.837	.752	.560					
16	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.992	.988	.969	.960	.935	.855	.823	.740	.542				
17	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.990	.984	.964	.954	.929	.839	.808	.730	.524			
18	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.988	.984	.950	.948	.921	.821	.798	.720	.508		
19	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.986	.982	.956	.940	.911	.806	.788	.710	.492	
20	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.984	.980	.952	.929	.901	.794	.778	.698	.478
21	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.982	.978	.948	.919	.889	.784	.764	.690
22	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.980	.976	.944	.907	.879	.770	.754
23	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.978	.974	.938	.897	.865	.760
24	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.976	.972	.929	.887	.853
25	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.974	.968	.923	.877
26	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.970	.966	.917
27	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.998	.968	.964
28	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.996	.966
29	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.994
30	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
31	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
32	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
33	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
34	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
35	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
36	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
37	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
38	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
39	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
40	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00

TOTAL OBSERVATIONS 496

TABLE 7.4.b. P(W < W\*) I LAUNCH OPPORTUNITIES IN J PERIODS (W\* = 25 M/SEC).  
BASED ON MAXIMUM WIND SPEEDS IN THE 10-15 KM LAYER OVER CAPE KENNEDY, FLORIDA.  
PERIOD OF RECORD JANUARY 1956 - DECEMBER 1963.

CAPE KENNEDY, FLORIDA JULY  
SPEEDS LESS THAN 030 MPS

PC ( I CONSECUTIVE SUCCESSES IN J PERIODS )

	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
1	.972																			
2	.984	.960																		
3	.990	.970	.950																	
4	.994	.980	.958	.942																
5	.998	.988	.966	.950	.933															
6	1.00	.994	.974	.958	.942	.925														
7	1.00	.998	.980	.964	.950	.933	.917													
8	1.00	1.00	.986	.974	.958	.942	.925	.909												
9	1.00	1.00	.990	.980	.966	.950	.933	.917	.897											
10	1.00	1.00	.992	.986	.974	.958	.942	.925	.905	.885										
11	1.00	1.00	.994	.990	.980	.966	.950	.933	.913	.893	.873									
12	1.00	1.00	.996	.992	.986	.974	.958	.942	.921	.901	.881	.861								
13	1.00	1.00	.998	.994	.990	.980	.966	.950	.929	.900	.889	.869	.849							
14	1.00	1.00	1.00	.996	.992	.986	.974	.958	.938	.917	.897	.877	.857	.837						
15	1.00	1.00	1.00	.998	.994	.990	.980	.966	.946	.925	.905	.885	.865	.845	.825					
16	1.00	1.00	1.00	1.00	.996	.992	.986	.974	.954	.933	.913	.893	.873	.853	.833	.813				
17	1.00	1.00	1.00	1.00	.998	.994	.990	.980	.962	.942	.921	.901	.881	.861	.841	.819	.802			
18	1.00	1.00	1.00	1.00	1.00	.996	.992	.986	.974	.950	.929	.909	.889	.869	.849	.825	.808	.792		
19	1.00	1.00	1.00	1.00	1.00	.998	.994	.990	.980	.962	.938	.917	.897	.877	.857	.831	.815	.798	.782	
20	1.00	1.00	1.00	1.00	1.00	1.00	.996	.992	.986	.974	.950	.925	.905	.885	.865	.837	.821	.804	.788	.772
21	1.00	1.00	1.00	1.00	1.00	1.00	.998	.994	.990	.980	.962	.938	.913	.893	.873	.843	.827	.810	.794	.778
22	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.996	.992	.986	.974	.950	.925	.901	.881	.849	.833	.817	.800	.784
23	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.998	.994	.990	.980	.962	.938	.913	.889	.855	.839	.823	.806	.790
24	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.996	.992	.986	.974	.950	.925	.901	.861	.845	.829	.813	.796
25	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.998	.994	.990	.980	.962	.938	.913	.871	.851	.835	.819	.802
26	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.996	.992	.986	.974	.950	.925	.881	.861	.841	.825	.808
27	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.998	.994	.990	.980	.962	.938	.891	.871	.851	.831	.815
28	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.996	.992	.986	.974	.950	.901	.881	.861	.841	.821
29	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.998	.994	.990	.980	.962	.911	.891	.871	.851	.829
30	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.996	.992	.986	.974	.921	.901	.881	.861	.837
31	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.998	.994	.990	.980	.931	.911	.891	.871	.845
32	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.996	.992	.986	.942	.921	.901	.881	.853
33	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.998	.994	.990	.948	.931	.911	.891	.861
34	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.996	.992	.954	.942	.921	.901	.869
35	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.998	.994	.960	.948	.931	.911	.877
36	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.996	.964	.954	.942	.921	.885
37	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.998	.968	.960	.948	.931	.893
38	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.972	.964	.954	.942	.901
39	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.976	.968	.960	.948	.909
40	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.980	.972	.964	.954	.917

TOTAL OBSERVATIONS 496

TABLE 7. 5. a. P(W < W\*) I CONSECUTIVE LAUNCH OPPORTUNITIES IN J PERIODS (W\* = 30 M/SEC).  
BASED ON MAXIMUM WIND SPEEDS IN THE 10-15 KM LAYER OVER CAPE KENNEDY, FLORIDA.

PERIOD OF RECORD JANUARY 1956 - DECEMBER 1963.

CAPE KENNEDY, FLORIDA JULY  
SPEEDS LESS THAN 030 MPS

P ( I SUCCESSES IN J PERIODS )

	I																			
J	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
1	.972																			
2	.984	.960																		
3	.990	.976	.950																	
4	.994	.986	.966	.942																
5	.998	.990	.978	.960	.933															
6	1.00	.996	.982	.974	.954	.925														
7	1.00	1.00	.990	.978	.970	.948	.917													
8	1.00	1.00	.996	.988	.974	.966	.942	.909												
9	1.00	1.00	.998	.994	.986	.970	.962	.935	.897											
10	1.00	1.00	1.00	.996	.992	.984	.966	.958	.929	.885										
11	1.00	1.00	1.00	1.00	.994	.990	.982	.962	.954	.923	.873									
12	1.00	1.00	1.00	1.00	1.00	.992	.988	.980	.958	.950	.917	.861								
13	1.00	1.00	1.00	1.00	1.00	1.00	.990	.986	.978	.954	.946	.911	.849							
14	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.988	.984	.976	.950	.942	.905	.837						
15	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.986	.982	.974	.946	.938	.899	.825					
16	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.984	.980	.972	.942	.933	.893	.813				
17	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.982	.978	.970	.938	.929	.885	.802			
18	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.980	.976	.968	.933	.925	.877	.752		
19	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.978	.974	.966	.929	.919	.871	.782	
20	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.976	.972	.964	.925	.913	.865	.772
21	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.974	.970	.962	.921	.907	.859
22	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.972	.968	.960	.917	.901
23	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.970	.966	.958	.913
24	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.968	.964	.956
25	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.966	.962
26	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.964
27	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
28	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
29	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
30	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
31	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
32	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
33	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
34	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
35	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
36	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
37	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
38	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
39	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
40	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00

TOTAL OBSERVATIONS 496

TABLE 7. S. D. P(W < W\*) I LAUNCH OPPORTUNITIES IN J PERIODS (W\* = 30 M/SEC).  
BASED ON MAXIMUM WIND SPEEDS IN THE 10-15 KM LAYER OVER CAPE KENNEDY, FLORIDA.  
PERIOD OF RECORD JANUARY 1956 - DECEMBER 1963.

CAPE KENNEDY, FLORIDA AUGUST  
SPEEDS LESS THAN 010 MPS

P(I CONSECUTIVE SUCCESSSES IN J PERIODS)

J	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
1	.246																			
2	.357	.139																		
3	.442	.208	.073																	
4	.520	.276	.097	.048																
5	.585	.339	.121	.067	.030															
6	.643	.397	.145	.085	.040	.020														
7	.696	.454	.169	.103	.050	.028	.012													
8	.732	.508	.194	.121	.060	.036	.016	.008												
9	.760	.552	.216	.139	.071	.044	.020	.010	.006											
10	.786	.593	.238	.157	.081	.052	.024	.012	.008	.004										
11	.810	.631	.260	.175	.091	.060	.028	.014	.010	.006	.002									
12	.835	.663	.282	.194	.101	.069	.032	.016	.012	.008	.004	.000								
13	.857	.692	.304	.212	.111	.077	.036	.018	.014	.010	.006	.000	.000							
14	.875	.720	.327	.230	.121	.085	.040	.020	.016	.012	.008	.000	.000	.000						
15	.889	.742	.349	.248	.131	.093	.044	.022	.018	.014	.010	.000	.000	.000	.000					
16	.901	.762	.369	.266	.141	.101	.048	.024	.020	.016	.012	.000	.000	.000	.000	.000				
17	.913	.778	.389	.282	.151	.109	.052	.026	.022	.018	.014	.000	.000	.000	.000	.000	.000			
18	.923	.792	.409	.298	.159	.117	.056	.028	.024	.020	.016	.000	.000	.000	.000	.000	.000	.000		
19	.933	.806	.421	.315	.167	.123	.060	.030	.026	.022	.018	.000	.000	.000	.000	.000	.000	.000	.000	
20	.940	.821	.431	.329	.175	.129	.065	.032	.028	.024	.020	.000	.000	.000	.000	.000	.000	.000	.000	.000
21	.944	.835	.442	.337	.181	.135	.069	.034	.030	.026	.022	.000	.000	.000	.000	.000	.000	.000	.000	.000
22	.948	.845	.452	.345	.185	.141	.073	.036	.032	.028	.024	.000	.000	.000	.000	.000	.000	.000	.000	.000
23	.952	.853	.462	.353	.190	.145	.077	.038	.034	.030	.026	.000	.000	.000	.000	.000	.000	.000	.000	.000
24	.956	.861	.472	.361	.194	.149	.081	.040	.036	.032	.028	.000	.000	.000	.000	.000	.000	.000	.000	.000
25	.960	.869	.482	.369	.198	.153	.085	.042	.038	.034	.030	.000	.000	.000	.000	.000	.000	.000	.000	.000
26	.964	.877	.492	.375	.202	.157	.089	.044	.040	.036	.032	.000	.000	.000	.000	.000	.000	.000	.000	.000
27	.968	.885	.502	.381	.206	.161	.093	.046	.042	.038	.034	.000	.000	.000	.000	.000	.000	.000	.000	.000
28	.972	.893	.512	.387	.210	.165	.097	.048	.044	.040	.036	.000	.000	.000	.000	.000	.000	.000	.000	.000
29	.978	.899	.522	.393	.214	.169	.101	.050	.046	.042	.038	.000	.000	.000	.000	.000	.000	.000	.000	.000
30	.982	.907	.532	.399	.218	.173	.105	.052	.048	.044	.040	.000	.000	.000	.000	.000	.000	.000	.000	.000
31	.986	.915	.544	.405	.222	.177	.109	.054	.050	.046	.042	.000	.000	.000	.000	.000	.000	.000	.000	.000
32	.990	.923	.554	.413	.226	.181	.113	.056	.052	.048	.044	.000	.000	.000	.000	.000	.000	.000	.000	.000
33	.994	.931	.565	.421	.232	.185	.117	.058	.054	.050	.046	.000	.000	.000	.000	.000	.000	.000	.000	.000
34	.996	.940	.575	.429	.238	.192	.121	.060	.056	.052	.048	.000	.000	.000	.000	.000	.000	.000	.000	.000
35	.998	.948	.585	.438	.242	.198	.125	.063	.058	.054	.050	.000	.000	.000	.000	.000	.000	.000	.000	.000
36	1.00	.956	.595	.446	.246	.202	.129	.065	.060	.056	.052	.000	.000	.000	.000	.000	.000	.000	.000	.000
37	1.00	.964	.603	.454	.250	.206	.131	.067	.063	.058	.054	.000	.000	.000	.000	.000	.000	.000	.000	.000
38	1.00	.972	.611	.462	.254	.210	.133	.067	.063	.060	.056	.000	.000	.000	.000	.000	.000	.000	.000	.000
39	1.00	.978	.619	.470	.258	.214	.135	.067	.063	.063	.058	.000	.000	.000	.000	.000	.000	.000	.000	.000
40	1.00	.984	.627	.478	.262	.218	.137	.067	.063	.063	.060	.000	.000	.000	.000	.000	.000	.000	.000	.000

TOTAL OBSERVATIONS 496

TABLE 8. 1.a. P(W < W\*) I CONSECUTIVE LAUNCH OPPORTUNITIES IN J PERIODS (W\* = 10 M/SEC).  
BASED ON MAXIMUM WIND SPEEDS IN THE 10-15 KM LAYER OVER CAPE KENNEDY, FLORIDA.  
PERIOD OF RECORD JANUARY 1956 - DECEMBER 1963.

CAPE KENNEDY, FLORIDA AUGUST  
SPEEDS LESS THAN 110 M/S

P ( 1 SUCCESSFUL LAUNCHES )

J	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
1	.246																			
2	.357	.137																		
3	.442	.236	.073																	
4	.520	.315	.121	.048																
5	.585	.391	.173	.083	.030															
6	.643	.460	.218	.129	.052	.020														
7	.696	.520	.268	.171	.083	.036	.017													
8	.732	.583	.313	.218	.119	.056	.022	.008												
9	.760	.629	.367	.258	.161	.077	.040	.012	.006											
10	.786	.665	.419	.304	.198	.105	.056	.026	.008	.004										
11	.810	.696	.466	.351	.240	.133	.075	.038	.020	.006	.002									
12	.835	.722	.506	.387	.280	.175	.089	.052	.030	.014	.004	.000								
13	.857	.750	.542	.417	.310	.218	.117	.060	.044	.024	.012	.000	.000							
14	.875	.774	.579	.448	.337	.258	.145	.079	.052	.034	.016	.004	.000	.000						
15	.889	.798	.613	.472	.360	.290	.179	.097	.065	.044	.026	.008	.004	.000	.000					
16	.901	.815	.651	.498	.391	.327	.206	.125	.075	.052	.038	.012	.006	.002	.000	.000				
17	.913	.829	.673	.534	.415	.353	.238	.147	.097	.059	.046	.022	.008	.004	.000	.000	.000			
18	.923	.845	.696	.552	.454	.375	.260	.175	.115	.077	.050	.032	.014	.006	.000	.000	.000	.000		
19	.933	.859	.716	.575	.474	.411	.280	.192	.141	.097	.067	.038	.024	.008	.000	.000	.000	.000	.000	
20	.940	.877	.734	.599	.494	.431	.313	.208	.159	.107	.073	.054	.028	.016	.000	.000	.000	.000	.000	.000
21	.944	.891	.754	.623	.512	.450	.335	.230	.181	.123	.085	.065	.044	.022	.002	.000	.000	.000	.000	.000
22	.948	.901	.774	.645	.532	.462	.353	.252	.200	.147	.095	.075	.054	.034	.006	.000	.000	.000	.000	.000
23	.952	.911	.792	.667	.554	.476	.367	.268	.218	.167	.115	.083	.065	.044	.016	.002	.000	.000	.000	.000
24	.956	.919	.813	.685	.577	.490	.383	.282	.234	.183	.137	.097	.075	.054	.026	.008	.000	.000	.000	.000
25	.960	.927	.829	.706	.593	.508	.397	.298	.250	.200	.151	.115	.087	.069	.034	.016	.000	.000	.000	.000
26	.964	.938	.843	.722	.611	.526	.411	.319	.262	.214	.167	.129	.099	.083	.048	.024	.002	.000	.000	.000
27	.968	.946	.857	.740	.623	.546	.429	.335	.276	.226	.181	.143	.111	.091	.065	.038	.006	.000	.000	.000
28	.972	.952	.869	.760	.635	.563	.448	.355	.290	.240	.194	.157	.123	.101	.071	.056	.018	.000	.000	.000
29	.978	.958	.877	.780	.651	.575	.466	.371	.313	.268	.212	.169	.135	.113	.079	.063	.038	.004	.000	.000
30	.982	.968	.885	.800	.665	.591	.478	.391	.333	.280	.224	.188	.143	.123	.091	.069	.048	.018	.002	.000
31	.986	.974	.899	.819	.683	.603	.494	.403	.357	.274	.234	.206	.155	.129	.101	.079	.058	.024	.014	.000
32	.990	.978	.909	.843	.702	.613	.508	.417	.375	.294	.242	.216	.175	.135	.109	.087	.069	.034	.018	.008
33	.994	.982	.917	.861	.724	.629	.516	.431	.387	.317	.256	.224	.190	.147	.115	.095	.079	.042	.026	.012
34	.996	.988	.925	.875	.744	.651	.524	.444	.399	.320	.274	.238	.198	.163	.121	.103	.085	.054	.030	.020
35	.998	.992	.935	.889	.758	.675	.536	.454	.411	.339	.288	.256	.206	.173	.135	.107	.093	.065	.036	.026
36	1.00	.996	.948	.901	.774	.692	.554	.464	.423	.349	.298	.270	.220	.183	.145	.115	.097	.077	.042	.030
37	1.00	1.00	.962	.913	.788	.710	.569	.476	.433	.359	.310	.280	.232	.196	.157	.125	.101	.085	.050	.034
38	1.00	1.00	.976	.925	.806	.728	.581	.490	.442	.367	.325	.292	.244	.202	.173	.133	.109	.089	.056	.042
39	1.00	1.00	.982	.944	.823	.748	.591	.504	.452	.375	.333	.308	.254	.212	.181	.147	.115	.097	.060	.046
40	1.00	1.00	.988	.950	.851	.764	.603	.516	.464	.381	.343	.317	.270	.222	.192	.155	.123	.105	.069	.048

TOTAL OBSERVATIONS 496

TABLE 8. 1.b. P(W < W\*) I LAUNCH OPPORTUNITIES IN J PERIODS (W\* = 10 M/SEC).  
BASED ON MAXIMUM WIND SPEEDS IN THE 10-15 KM LAYER OVER CAPE KENNEDY, FLORIDA.  
PERIOD OF RECORD JANUARY 1956 - DECEMBER 1963.

CAPE KENNEDY , FLORIDA AUGUST  
SPEEDS LESS THAN 015 MPS

PC ( I CONSECUTIVE SUCCESSES IN J PERIODS )

	I																			
J	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
1	.629																			
2	.760	.502																		
3	.833	.595	.411																	
4	.885	.688	.496	.333																
5	.919	.750	.581	.401	.268															
6	.944	.804	.665	.470	.321	.222														
7	.960	.847	.728	.538	.373	.262	.183													
8	.970	.877	.782	.607	.425	.302	.216	.153												
9	.978	.901	.829	.663	.478	.343	.248	.177	.129											
10	.982	.923	.863	.716	.534	.383	.280	.202	.151	.107										
11	.986	.938	.893	.762	.581	.427	.313	.226	.173	.129	.085									
12	.990	.948	.917	.800	.623	.472	.349	.250	.196	.151	.103	.067								
13	.994	.956	.933	.829	.663	.506	.385	.278	.218	.173	.121	.081	.052							
14	.996	.964	.946	.849	.698	.538	.419	.306	.244	.196	.139	.095	.063	.042						
15	.998	.970	.956	.867	.730	.567	.446	.333	.270	.222	.157	.109	.073	.050	.036					
16	1.00	.976	.964	.881	.758	.593	.468	.359	.294	.248	.179	.123	.083	.058	.040	.032				
17	1.00	.982	.970	.891	.784	.619	.490	.379	.319	.272	.202	.139	.093	.067	.044	.036	.028			
18	1.00	.990	.976	.901	.806	.641	.510	.399	.341	.296	.222	.155	.105	.075	.048	.040	.032	.024		
19	1.00	.994	.982	.909	.825	.661	.530	.419	.359	.319	.242	.169	.117	.083	.052	.044	.036	.028	.020	
20	1.00	.996	.988	.917	.841	.679	.548	.438	.377	.341	.260	.183	.127	.091	.056	.048	.040	.032	.024	.016
21	1.00	.998	.990	.923	.855	.694	.565	.456	.395	.359	.278	.196	.137	.097	.060	.052	.044	.036	.028	.020
22	1.00	1.00	.992	.927	.869	.708	.577	.474	.411	.377	.296	.208	.147	.103	.065	.056	.048	.040	.032	.024
23	1.00	1.00	.994	.931	.879	.722	.589	.488	.427	.395	.310	.220	.157	.109	.069	.060	.052	.044	.036	.028
24	1.00	1.00	.996	.935	.887	.734	.601	.502	.442	.411	.325	.232	.167	.115	.073	.065	.056	.048	.040	.032
25	1.00	1.00	.996	.940	.891	.746	.611	.516	.456	.425	.339	.240	.177	.121	.077	.069	.060	.052	.044	.036
26	1.00	1.00	.996	.944	.895	.752	.623	.526	.470	.440	.353	.248	.188	.127	.081	.073	.065	.056	.048	.040
27	1.00	1.00	.996	.946	.899	.758	.633	.536	.482	.454	.367	.256	.196	.133	.085	.077	.069	.060	.052	.044
28	1.00	1.00	.996	.948	.903	.764	.641	.546	.492	.466	.381	.264	.204	.139	.089	.081	.073	.065	.056	.048
29	1.00	1.00	.996	.950	.907	.770	.649	.556	.502	.478	.393	.274	.212	.145	.093	.085	.077	.069	.060	.052
30	1.00	1.00	.996	.952	.911	.774	.657	.565	.512	.488	.405	.284	.222	.151	.097	.089	.081	.073	.065	.056
31	1.00	1.00	.998	.954	.915	.778	.665	.573	.522	.498	.417	.294	.232	.159	.101	.093	.085	.077	.069	.060
32	1.00	1.00	1.00	.958	.919	.782	.673	.581	.530	.508	.427	.304	.242	.167	.105	.097	.089	.081	.073	.065
33	1.00	1.00	1.00	.960	.925	.786	.681	.589	.538	.518	.438	.315	.252	.175	.109	.101	.093	.085	.077	.069
34	1.00	1.00	1.00	.962	.931	.792	.690	.597	.546	.526	.448	.323	.262	.183	.113	.105	.097	.089	.081	.073
35	1.00	1.00	1.00	.964	.935	.798	.700	.605	.554	.534	.458	.331	.272	.192	.117	.109	.101	.093	.085	.077
36	1.00	1.00	1.00	.966	.940	.804	.708	.615	.563	.542	.468	.339	.280	.200	.121	.113	.105	.097	.089	.081
37	1.00	1.00	1.00	.968	.944	.810	.716	.623	.573	.550	.478	.347	.288	.209	.125	.117	.109	.101	.093	.085
38	1.00	1.00	1.00	.970	.946	.817	.724	.631	.581	.560	.488	.355	.296	.214	.129	.121	.113	.105	.097	.089
39	1.00	1.00	1.00	.972	.948	.823	.732	.639	.589	.569	.500	.363	.304	.220	.131	.125	.117	.109	.101	.093
40	1.00	1.00	1.00	.974	.950	.829	.740	.647	.597	.577	.510	.373	.313	.224	.133	.127	.121	.113	.105	.097

TOTAL OBSERVATIONS 496

TABLE 8. 2.a. P(W < W\*) I CONSECUTIVE LAUNCH OPPORTUNITIES IN J PERIODS (W\* = 15 M/SEC).  
BASED ON MAXIMUM WIND SPEEDS IN THE 10-15 KM LAYER OVER CAPE KENNEDY, FLORIDA.  
PERIOD OF RECORD JANUARY 1956 - DECEMBER 1963.

CAPE KENNEDY , FLORIDA AUGUST  
SPEEDS LESS THAN 015 MPS

P ( I SUCCESSES IN J PERIODS )

J	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
1	.629																			
2	.760	.502																		
3	.833	.653	.411																	
4	.885	.740	.575	.333																
5	.919	.813	.673	.496	.268															
6	.944	.859	.760	.597	.427	.222														
7	.960	.893	.821	.690	.534	.369	.183													
8	.970	.921	.859	.758	.633	.478	.321	.153												
9	.978	.942	.889	.802	.710	.577	.429	.278	.129											
10	.982	.958	.915	.841	.762	.653	.528	.383	.246	.107										
11	.986	.964	.942	.871	.806	.714	.601	.487	.339	.222	.085									
12	.990	.970	.950	.907	.843	.762	.665	.552	.454	.298	.198	.067								
13	.994	.976	.956	.919	.889	.804	.714	.617	.516	.417	.262	.175	.052							
14	.996	.984	.962	.927	.905	.859	.754	.669	.579	.480	.383	.230	.155	.042						
15	.998	.990	.970	.933	.917	.879	.817	.710	.633	.540	.446	.349	.206	.135	.036					
16	1.00	.994	.978	.942	.925	.895	.845	.772	.671	.599	.504	.415	.319	.183	.115	.032				
17	1.00	1.00	.986	.950	.933	.907	.863	.813	.728	.639	.563	.476	.385	.288	.155	.103	.028			
18	1.00	1.00	1.00	.958	.942	.917	.875	.843	.770	.692	.605	.536	.448	.357	.244	.143	.091	.024		
19	1.00	1.00	1.00	.976	.950	.925	.885	.861	.808	.734	.655	.581	.508	.421	.310	.220	.131	.079	.020	
20	1.00	1.00	1.00	.982	.966	.933	.893	.871	.837	.780	.698	.627	.554	.482	.371	.284	.202	.117	.069	.016
21	1.00	1.00	1.00	.986	.974	.948	.901	.879	.853	.810	.750	.665	.603	.528	.431	.337	.264	.185	.103	.060
22	1.00	1.00	1.00	.992	.978	.958	.913	.887	.867	.827	.784	.718	.639	.581	.478	.393	.315	.244	.169	.093
23	1.00	1.00	1.00	.996	.984	.962	.925	.897	.877	.845	.804	.752	.696	.611	.532	.440	.371	.290	.226	.155
24	1.00	1.00	1.00	1.00	.988	.968	.931	.911	.885	.859	.827	.776	.730	.665	.565	.498	.409	.345	.270	.210
25	1.00	1.00	1.00	1.00	.996	.972	.940	.919	.897	.869	.845	.802	.752	.700	.621	.530	.472	.375	.325	.250
26	1.00	1.00	1.00	1.00	.998	.984	.946	.927	.905	.883	.855	.827	.776	.724	.663	.575	.504	.444	.353	.302
27	1.00	1.00	1.00	1.00	.998	.992	.960	.933	.911	.895	.869	.839	.804	.746	.692	.619	.544	.484	.417	.331
28	1.00	1.00	1.00	1.00	.998	.994	.974	.946	.917	.899	.883	.855	.817	.776	.716	.649	.589	.520	.464	.389
29	1.00	1.00	1.00	1.00	1.00	.996	.978	.962	.929	.903	.887	.873	.833	.788	.750	.677	.619	.563	.502	.440
30	1.00	1.00	1.00	1.00	1.00	1.00	.984	.966	.948	.913	.889	.879	.855	.806	.766	.714	.645	.589	.548	.476
31	1.00	1.00	1.00	1.00	1.00	1.00	.990	.978	.952	.929	.899	.881	.865	.831	.786	.736	.679	.611	.575	.524
32	1.00	1.00	1.00	1.00	1.00	1.00	.992	.988	.966	.933	.913	.891	.869	.843	.815	.758	.710	.637	.595	.552
33	1.00	1.00	1.00	1.00	1.00	1.00	.994	.990	.982	.946	.919	.903	.881	.847	.831	.790	.736	.661	.619	.575
34	1.00	1.00	1.00	1.00	1.00	1.00	.996	.992	.986	.968	.927	.909	.893	.861	.835	.813	.768	.683	.643	.599
35	1.00	1.00	1.00	1.00	1.00	1.00	.998	.994	.990	.972	.952	.917	.899	.873	.851	.821	.792	.716	.663	.623
36	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.996	.992	.978	.958	.942	.909	.877	.865	.837	.804	.744	.696	.645
37	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.994	.982	.966	.950	.931	.889	.867	.853	.823	.762	.724	.677
38	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.986	.970	.960	.942	.911	.877	.857	.839	.780	.748	.706
39	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.994	.976	.964	.954	.925	.897	.863	.847	.796	.766	.734
40	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.996	.988	.968	.958	.942	.911	.879	.853	.808	.780	.752

TOTAL OBSERVATIONS 496

TABLE 8. 2.b. P(W < W\*) I LAUNCH OPPORTUNITIES IN J PERIODS (W\* = 15 M/SEC).  
BASED ON MAXIMUM WIND SPEEDS IN THE 10-15 KM LAYER OVER CAPE KENNEDY, FLORIDA.  
PERIOD OF RECORD JANUARY 1956 - DECEMBER 1963.



CAPE KENNEDY, FLORIDA AUGUST  
SPEEDS LESS THAN 020 MPS

PC ( 1 CONSECUTIVE SUCCESSES IN J PERIODS )

J	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15					
1	.865																			
2	.927	.802																		
3	.962	.855	.750																	
4	.978	.909	.798	.700																
5	.986	.942	.849	.748	.649															
6	.992	.962	.897	.798	.688	.609														
7	.996	.970	.929	.847	.728	.645	.573													
8	.998	.976	.952	.895	.768	.683	.607	.538												
9	1.00	.980	.964	.925	.808	.722	.643	.569	.506											
10	1.00	.984	.976	.950	.849	.760	.679	.601	.532	.476										
11	1.00	.988	.980	.964	.873	.798	.716	.633	.560	.502	.446									
12	1.00	.992	.984	.976	.893	.835	.752	.665	.589	.530	.470	.417								
13	1.00	.996	.988	.980	.911	.857	.786	.698	.617	.558	.496	.442	.389							
14	1.00	.998	.992	.984	.927	.873	.821	.728	.645	.587	.522	.468	.411	.363						
15	1.00	1.00	.996	.988	.938	.887	.841	.758	.671	.618	.548	.494	.435	.385	.337					
16	1.00	1.00	.998	.992	.948	.901	.857	.788	.698	.641	.575	.520	.460	.409	.355	.315				
17	1.00	1.00	1.00	.996	.958	.913	.871	.808	.724	.667	.599	.546	.484	.433	.373	.331	.292			
18	1.00	1.00	1.00	.998	.966	.925	.885	.825	.752	.694	.623	.571	.508	.458	.391	.347	.306	.272		
19	1.00	1.00	1.00	1.00	.974	.940	.897	.839	.768	.722	.647	.595	.530	.482	.409	.363	.321	.284	.256	
20	1.00	1.00	1.00	1.00	.980	.950	.909	.853	.782	.750	.673	.619	.552	.504	.425	.379	.335	.296	.266	.242
21	1.00	1.00	1.00	1.00	.986	.960	.921	.865	.796	.766	.700	.645	.575	.526	.440	.393	.349	.308	.276	.250
22	1.00	1.00	1.00	1.00	.988	.969	.929	.877	.810	.780	.726	.671	.597	.548	.454	.407	.361	.321	.286	.258
23	1.00	1.00	1.00	1.00	.990	.974	.938	.889	.823	.794	.740	.698	.619	.571	.468	.421	.373	.331	.296	.266
24	1.00	1.00	1.00	1.00	.992	.978	.944	.899	.835	.808	.754	.724	.641	.593	.482	.435	.385	.341	.306	.274
25	1.00	1.00	1.00	1.00	.994	.982	.950	.907	.847	.821	.768	.738	.663	.615	.496	.450	.397	.351	.317	.282
26	1.00	1.00	1.00	1.00	.996	.984	.954	.915	.855	.833	.782	.752	.685	.637	.510	.464	.409	.361	.327	.290
27	1.00	1.00	1.00	1.00	.998	.986	.956	.923	.863	.843	.794	.766	.698	.659	.524	.478	.421	.371	.337	.298
28	1.00	1.00	1.00	1.00	1.00	.988	.958	.927	.871	.851	.804	.780	.710	.679	.538	.492	.433	.381	.347	.306
29	1.00	1.00	1.00	1.00	1.00	.990	.960	.931	.879	.859	.815	.790		.692	.552	.506	.446	.391	.357	.315
30	1.00	1.00	1.00	1.00	1.00	.992	.962	.935	.885	.867	.825	.800		.704	.567	.520	.458	.401	.367	.323
31	1.00	1.00	1.00	1.00	1.00	.992	.964	.940	.891	.875	.835	.810	.740	.714	.577	.534	.470	.411	.377	.331
32	1.00	1.00	1.00	1.00	1.00	.992	.966	.942	.897	.881	.845	.821	.748	.724	.587	.548	.482	.421	.387	.339
33	1.00	1.00	1.00	1.00	1.00	.992	.966	.944	.903	.887	.855	.831	.756	.732	.597	.558	.494	.431	.397	.347
34	1.00	1.00	1.00	1.00	1.00	.992	.968	.946	.907	.893	.863	.841	.764	.740	.607	.569	.504	.442	.407	.355
35	1.00	1.00	1.00	1.00	1.00	.992	.970	.948	.911	.899	.871	.851	.772	.748	.615	.579	.512	.450	.417	.363
36	1.00	1.00	1.00	1.00	1.00	.992	.972	.950	.917	.903	.879	.859	.780	.756	.623	.589	.520	.458	.425	.371
37	1.00	1.00	1.00	1.00	1.00	.992	.974	.952	.921	.909	.887	.867	.788	.764	.631	.597	.528	.464	.433	.377
38	1.00	1.00	1.00	1.00	1.00	.992	.976	.954	.925	.915	.895	.875	.794	.772	.639	.605	.536	.470	.442	.383
39	1.00	1.00	1.00	1.00	1.00	.992	.978	.956	.929	.919	.903	.885	.800	.780	.647	.613	.544	.476	.448	.389
40	1.00	1.00	1.00	1.00	1.00	.992	.980	.958	.931	.923	.911	.893	.808	.786	.655	.621	.552	.482	.454	.395

TOTAL OBSERVATIONS 496

TABLE 8. 3.a. P(W < W\*) 1 CONSECUTIVE LAUNCH OPPORTUNITIES IN J PERIODS (W\* = 20 M/SEC).  
BASED ON MAXIMUM WIND SPEEDS IN THE 10-15 KM LAYER OVER CAPE KENNEDY, FLORIDA.  
PERIOD OF RECORD JANUARY 1956 - DECEMBER 1963.

CAPE KENNEDY, FLORIDA AUGUST  
SPEEDS LESS THAN 020 MPS

P ( I SUCCESSES IN J PERIODS )

J	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
1	.865																			
2	.927	.802																		
3	.962	.885	.750																	
4	.978	.933	.851	.700																
5	.986	.962	.911	.819	.649															
6	.992	.974	.950	.889	.776	.609														
7	.996	.982	.954	.940	.855	.744	.573													
8	.998	.988	.974	.958	.917	.829	.718	.538												
9	1.00	.992	.980	.970	.946	.895	.810	.690	.506											
10	1.00	.998	.984	.976	.962	.929	.885	.786	.663	.476										
11	1.00	1.00	.992	.980	.970	.950	.921	.869	.760	.643	.446									
12	1.00	1.00	.998	.988	.974	.962	.942	.911	.851	.738	.621	.417								
13	1.00	1.00	1.00	.996	.982	.970	.952	.933	.899	.835	.714	.601	.389							
14	1.00	1.00	1.00	1.00	.994	.976	.967	.946	.925	.887	.817	.690	.581	.363						
15	1.00	1.00	1.00	1.00	1.00	.999	.968	.960	.938	.917	.873	.796	.669	.560	.337					
16	1.00	1.00	1.00	1.00	1.00	1.00	.980	.966	.956	.929	.907	.857	.782	.649	.536	.315				
17	1.00	1.00	1.00	1.00	1.00	1.00	.994	.978	.962	.952	.921	.893	.845	.766	.621	.516	.292			
18	1.00	1.00	1.00	1.00	1.00	1.00	.996	.992	.974	.958	.948	.911	.881	.833	.734	.603	.496	.272		
19	1.00	1.00	1.00	1.00	1.00	1.00	.998	.994	.988	.970	.954	.944	.901	.871	.804	.712	.587	.472	.256	
20	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.996	.990	.984	.966	.950	.940	.893	.847	.782	.692	.567	.450	.242
21	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.992	.986	.980	.962	.946	.935	.875	.827	.764	.665	.548	.427
22	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.998	.988	.982	.976	.958	.947	.923	.857	.813	.738	.643	.526
23	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.998	.996	.984	.978	.972	.954	.931	.907	.847	.790	.716	.621
24	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.998	.994	.994	.980	.974	.968	.948	.915	.899	.829	.770	.698
25	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.996	.994	.992	.976	.970	.964	.935	.905	.885	.810	.750
26	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.994	.992	.990	.972	.966	.958	.923	.895	.869	.792
27	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.992	.990	.988	.968	.962	.948	.915	.883	.851
28	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.990	.988	.986	.964	.954	.942	.907	.871
29	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.998	.988	.986	.984	.958	.948	.935	.897
30	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.996	.986	.984	.982	.952	.942	.925
31	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.994	.984	.982	.980	.946	.931
32	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.992	.982	.980	.978	.935
33	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.990	.980	.978	.952
34	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.988	.978	.974
35	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.998	.986	.976
36	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.998	.996	.984
37	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.998	.996	.994
38	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.998	.996	.994
39	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.998	.996	.994
40	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.998	.996	.994

TOTAL OBSERVATIONS 496

TABLE 8. 3.b. P(W < W\*) I LAUNCH OPPORTUNITIES IN J PERIODS (W\* = 20 M/SEC).  
BASED ON MAXIMUM WIND SPEEDS IN THE 10-15 KM LAYER OVER CAPE KENNEDY, FLORIDA.  
PERIOD OF RECORD JANUARY 1956 - DECEMBER 1963.

CAPE KENNEDY, FLORIDA AUGUST  
SPEEDS LESS THAN 025 MPH

PC ( I CONSECUTIVE SUCCESSFUL IN J PERIODS )

	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
1	.958																			
2	.982	.935																		
3	.992	.958	.915																	
4	.996	.978	.935	.897																
5	1.00	.988	.954	.917	.879															
6	1.00	.994	.972	.935	.899	.861														
7	1.00	1.00	.982	.954	.917	.881	.845													
8	1.00	1.00	.990	.972	.935	.899	.865	.829												
9	1.00	1.00	.998	.982	.954	.917	.883	.847	.817											
10	1.00	1.00	1.00	.990	.972	.935	.901	.863	.835	.804										
11	1.00	1.00	1.00	.998	.982	.954	.919	.879	.851	.823	.790									
12	1.00	1.00	1.00	1.00	.990	.972	.938	.895	.867	.839	.808	.776								
13	1.00	1.00	1.00	1.00	.998	.982	.954	.911	.883	.855	.825	.794	.760							
14	1.00	1.00	1.00	1.00	1.00	.990	.974	.927	.899	.871	.841	.810	.776	.746						
15	1.00	1.00	1.00	1.00	1.00	.998	.984	.944	.915	.887	.857	.827	.790	.760	.734					
16	1.00	1.00	1.00	1.00	1.00	1.00	.992	.968	.931	.903	.873	.843	.809	.772	.748	.722				
17	1.00	1.00	1.00	1.00	1.00	1.00	.998	.976	.948	.918	.889	.859	.819	.784	.760	.736	.710			
18	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.976	.964	.935	.905	.875	.833	.796	.772	.748	.722	.700		
19	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.982	.972	.952	.921	.891	.847	.808	.784	.760	.732	.712	.688	
20	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.986	.978	.968	.938	.907	.861	.821	.796	.772	.742	.722	.698	.677
21	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.988	.984	.974	.952	.924	.875	.833	.808	.784	.752	.737	.706	.688
22	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.990	.986	.980	.968	.946	.919	.889	.865	.821	.796	.762	.747	.714
23	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.992	.988	.984	.976	.954	.927	.897	.873	.808	.772	.752	.722	.704
24	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.994	.990	.986	.980	.970	.948	.921	.897	.865	.821	.782	.767	.730
25	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.996	.992	.988	.984	.974	.952	.929	.879	.855	.833	.792	.772	.738
26	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.998	.994	.990	.986	.976	.954	.927	.891	.865	.843	.802	.782	.746
27	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.996	.992	.988	.984	.974	.952	.929	.879	.855	.833	.792	.772	.738
28	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.998	.994	.990	.986	.976	.954	.927	.891	.865	.843	.802	.782	.746
29	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.998	.994	.990	.986	.976	.954	.927	.891	.865	.843	.802	.782
30	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.998	.994	.990	.986	.976	.954	.927	.891	.865	.843	.802
31	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.998	.994	.990	.986	.976	.954	.927	.891	.865	.843
32	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.998	.994	.990	.986	.976	.954	.927	.891	.865
33	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.998	.994	.990	.986	.976	.954	.927	.891
34	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.998	.994	.990	.986	.976	.954	.927
35	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.998	.994	.990	.986	.976	.954
36	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.998	.994	.990	.986	.976
37	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.998	.994	.990	.986
38	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.998	.994	.990
39	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.998	.994
40	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.998

TOTAL OBSERVATIONS 496

TABLE 8. 4.a. P(W < W\*) I CONSECUTIVE LAUNCH OPPORTUNITIES IN J PERIODS (W\* = 25 M/SEC).  
BASED ON MAXIMUM WIND SPEEDS IN THE 10-15 KM LAYER OVER CAPE KENNEDY, FLORIDA.  
PERIOD OF RECORD JANUARY 1956 - DECEMBER 1963.

CAPE KENNEDY, FLORIDA AUGUST  
SPEEDS LESS THAN 025 MPH

P 1 SUCCESSFUL J PERIODS

	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	
1	.958																				
2	.982	.935																			
3	.992	.970	.915																		
4	.996	.986	.958	.997																	
5	1.00	.992	.978	.968	.879																
6	1.00	1.00	.988	.970	.938	.861															
7	1.00	1.00	1.00	.984	.962	.927	.845														
8	1.00	1.00	1.00	1.00	.980	.954	.917	.829													
9	1.00	1.00	1.00	1.00	1.00	.976	.948	.909	.817												
10	1.00	1.00	1.00	1.00	1.00	1.00	.974	.940	.903	.804											
11	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.972	.931	.897	.790										
12	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.968	.925	.881	.776									
13	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.964	.921	.885	.760								
14	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.960	.917	.875	.746							
15	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.956	.911	.865	.734						
16	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.950	.907	.855	.722					
17	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.948	.946	.901	.845	.710				
18	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.996	.940	.895	.833	.700			
19	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.992	.933	.885	.825	.688		
20	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.998	.988	.923	.879	.813	.677	
21	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.998	.996	.980	.917	.869	.804	
22	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.998	.996	.992	.974	.907	.863	
23	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.998	.996	.994	.988	.964	.901	
24	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.998	.996	.994	.992	.982	.956	
25	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.996	.994	.992	.990	.976		
26	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.994	.992	.990	.988		
27	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.992	.990	.988		
28	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.990	.988	
29	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.998	.988
30	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.996
31	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
32	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
33	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
34	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
35	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
36	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
37	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
38	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
39	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
40	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00

TOTAL OBSERVATIONS 496

TABLE 8. 4. b. P(N < W) LAUNCH OPPORTUNITIES IN J PERIODS (W = 25 M/SEC).  
BASED ON MAXIMUM WIND SPEEDS IN THE 10-15 KM LAYER OVER CAPE KENNEDY, FLORIDA.  
PERIOD OF RECORD JANUARY 1954 - DECEMBER 1963.

CAPE KENNEDY, FLORIDA AUGUST  
SPEEDS LESS THAN 30 MPS

DC ( I CONSECUTIVE SUCCESSES IN J PERIODS )

	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
1	.988																			
2	.998	.978																		
3	1.00	.986	.970																	
4	1.00	.994	.978	.962																
5	1.00	.996	.986	.970	.954															
6	1.00	.998	.994	.978	.962	.946														
7	1.00	1.00	.996	.986	.970	.954	.938													
8	1.00	1.00	.998	.994	.978	.962	.946	.929												
9	1.00	1.00	1.00	.996	.986	.970	.954	.938	.925											
10	1.00	1.00	1.00	.998	.994	.978	.962	.946	.933	.921										
11	1.00	1.00	1.00	1.00	.996	.986	.970	.954	.942	.929	.915									
12	1.00	1.00	1.00	1.00	.998	.994	.978	.962	.950	.938	.923	.909								
13	1.00	1.00	1.00	1.00	1.00	.996	.986	.970	.958	.946	.931	.917	.903							
14	1.00	1.00	1.00	1.00	1.00	.998	.994	.978	.966	.954	.940	.925	.911	.897						
15	1.00	1.00	1.00	1.00	1.00	1.00	.996	.986	.974	.962	.948	.933	.919	.905	.891					
16	1.00	1.00	1.00	1.00	1.00	1.00	.998	.994	.982	.970	.956	.942	.927	.913	.899	.885				
17	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.996	.990	.979	.964	.950	.935	.921	.907	.893	.879			
18	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.998	.994	.986	.972	.958	.944	.929	.915	.901	.887	.873		
19	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.996	.990	.980	.966	.952	.936	.923	.909	.895	.879	.869	
20	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.998	.994	.984	.974	.960	.946	.931	.917	.903	.885	.875	.863
21	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.996	.988	.978	.968	.954	.940	.925	.911	.891	.881	.867
22	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.998	.994	.982	.972	.962	.948	.933	.919	.897	.887	.871
23	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.996	.988	.976	.966	.956	.942	.927	.903	.893	.875
24	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.998	.994	.982	.970	.960	.950	.935	.909	.899	.879
25	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.996	.988	.976	.964	.954	.944	.915	.905	.883
26	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.998	.994	.982	.968	.958	.948	.921	.911	.887
27	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.996	.988	.972	.962	.952	.923	.917	.891
28	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.998	.994	.976	.966	.956	.925	.919	.895
29	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.996	.980	.970	.960	.927	.921	.897
30	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.998	.984	.974	.964	.929	.923	.899
31	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.986	.978	.968	.931	.925	.901
32	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.988	.982	.972	.933	.927	.903
33	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.990	.984	.976	.935	.929	.905
34	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.990	.986	.980	.938	.931	.907
35	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.990	.988	.982	.940	.933	.909
36	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.990	.988	.984	.942	.935	.911
37	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.990	.988	.986	.944	.938	.913
38	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.990	.988	.986	.944	.940	.915
39	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.990	.988	.986	.948	.942	.917
40	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.990	.988	.986	.950	.944	.919
TOTAL OBSERVATIONS 496																				

TABLE 8. S.a. P(W < W\*) I CONSECUTIVE LAUNCH OPPORTUNITIES IN J PERIODS (W\* = 30 M/SEC).  
BASED ON MAXIMUM WIND SPEEDS IN THE 10-15 KM LAYER OVER CAPE KENNEDY, FLORIDA.  
PERIOD OF RECORD JANUARY 1956 - DECEMBER 1963.

CAPE KENNEDY, FLORIDA AUGUST

SPEEDS LESS THAN 030 MPS

P ( I SUCCESSES IN J PERIODS )

	I																			
J	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
1	.988																			
2	.998	.978																		
3	1.00	.994	.970																	
4	1.00	.998	.992	.962																
5	1.00	1.00	.996	.990	.954															
6	1.00	1.00	1.00	.994	.988	.946														
7	1.00	1.00	1.00	1.00	.992	.986	.938													
8	1.00	1.00	1.00	1.00	1.00	.990	.984	.929												
9	1.00	1.00	1.00	1.00	1.00	1.00	.998	.982	.925											
10	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.986	.980	.921										
11	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.984	.978	.915									
12	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.982	.976	.909								
13	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.980	.974	.905							
14	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.978	.972	.897						
15	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.976	.970	.891					
16	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.974	.968	.885				
17	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.972	.966	.879			
18	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.970	.964	.873		
19	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.968	.960	.869	
20	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.966	.956	.863
21	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.962	.950
22	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.998	.958
23	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.994
24	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
25	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
26	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
27	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
28	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
29	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
30	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
31	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
32	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
33	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
34	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
35	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
36	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
37	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
38	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
39	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
40	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00

TOTAL OBSERVATIONS 496

TABLE 8. 5.b. P(W < W\*) I LAUNCH OPPORTUNITIES IN J PERIODS (W\* = 30 M/SEC).  
 BASED ON MAXIMUM WIND SPEEDS IN THE 10-15 KM LAYER OVER CAPE KENNEDY, FLORIDA.  
 PERIOD OF RECORD JANUARY 1956 - DECEMBER 1963.

CAPE KENNEDY, FLORIDA SEPTEMBER  
SPEEDS LESS THAN 010 MPS

PC ( I CONSECUTIVE SUCCESSES IN J PERIODS )

	I																			
J	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
1	.165																			
2	.246	.081																		
3	.306	.115	.046																	
4	.354	.148	.065	.027																
5	.398	.177	.083	.040	.015															
6	.440	.206	.102	.052	.025	.004														
7	.479	.231	.121	.065	.035	.008	.000													
8	.519	.256	.138	.077	.046	.013	.000	.000												
9	.556	.281	.152	.090	.056	.017	.000	.000	.000											
10	.585	.304	.167	.102	.067	.021	.000	.000	.000	.000										
11	.610	.325	.179	.115	.077	.025	.000	.000	.000	.000	.000									
12	.635	.346	.192	.125	.088	.029	.000	.000	.000	.000	.000	.000								
13	.658	.365	.204	.135	.098	.033	.000	.000	.000	.000	.000	.000	.000							
14	.679	.381	.217	.146	.108	.038	.000	.000	.000	.000	.000	.000	.000	.000						
15	.698	.398	.227	.156	.119	.042	.000	.000	.000	.000	.000	.000	.000	.000	.000					
16	.717	.415	.238	.167	.129	.046	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000				
17	.733	.429	.248	.177	.140	.050	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000			
18	.750	.442	.258	.188	.150	.054	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000		
19	.765	.454	.269	.198	.160	.058	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	
20	.777	.467	.279	.208	.171	.063	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
21	.790	.479	.290	.219	.181	.067	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
22	.802	.494	.300	.229	.192	.071	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
23	.813	.508	.310	.240	.202	.075	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
24	.823	.523	.321	.250	.213	.079	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
25	.829	.540	.333	.260	.223	.083	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
26	.833	.556	.344	.271	.233	.088	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
27	.838	.569	.354	.281	.244	.092	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
28	.842	.581	.365	.292	.254	.096	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
29	.844	.594	.371	.302	.265	.100	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
30	.846	.602	.377	.313	.275	.104	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
31	.848	.608	.381	.321	.285	.108	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
32	.850	.615	.385	.327	.296	.113	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
33	.852	.621	.390	.333	.302	.117	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
34	.854	.627	.394	.340	.308	.119	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
35	.856	.633	.398	.346	.315	.121	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
36	.858	.640	.402	.352	.321	.123	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
37	.860	.646	.406	.358	.327	.125	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
38	.860	.650	.410	.365	.333	.127	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
39	.863	.654	.415	.371	.340	.129	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
40	.865	.656	.419	.377	.346	.131	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000

TOTAL OBSERVATIONS 480

TABLE 9. 1.a. P(W < W\*) I CONSECUTIVE LAUNCH OPPORTUNITIES IN J PERIODS (W\* = 10 M/SEC).  
BASED ON MAXIMUM WIND SPEEDS IN THE 10-15 KM LAYER OVER CAPE KENNEDY, FLORIDA.  
PERIOD OF RECORD JANUARY 1956 - DECEMBER 1963.

CAPE KENNEDY, FLORIDA SEPTEMBER

SPEEDS LESS THAN 10 MPS

P ( I SUCCESSFUL IN J PERIODS )

	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
1	.165																			
2	.246	.081																		
3	.306	.138	.046																	
4	.354	.179	.090	.027																
5	.398	.225	.117	.054	.015															
6	.440	.260	.150	.073	.033	.004														
7	.479	.295	.173	.098	.050	.013	.000													
8	.519	.329	.198	.115	.071	.023	.000	.000												
9	.556	.365	.221	.129	.090	.038	.000	.000	.000											
10	.585	.406	.244	.142	.104	.056	.000	.000	.000	.000										
11	.610	.442	.273	.154	.117	.071	.004	.000	.000	.000	.000									
12	.635	.469	.306	.169	.129	.081	.008	.002	.000	.000	.000	.000								
13	.658	.500	.327	.194	.144	.092	.010	.006	.000	.000	.000	.000	.000							
14	.679	.529	.350	.213	.167	.102	.013	.008	.002	.000	.000	.000	.000	.000						
15	.698	.550	.393	.227	.188	.117	.015	.010	.004	.000	.000	.000	.000	.000	.000					
16	.717	.569	.406	.254	.202	.138	.017	.013	.006	.000	.000	.000	.000	.000	.000	.000				
17	.733	.590	.423	.279	.225	.152	.023	.015	.008	.000	.000	.000	.000	.000	.000	.000	.000			
18	.750	.608	.442	.298	.246	.173	.029	.017	.010	.000	.000	.000	.000	.000	.000	.000	.000	.000		
19	.765	.629	.458	.321	.260	.194	.042	.019	.013	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	
20	.777	.652	.475	.335	.279	.210	.056	.025	.015	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
21	.790	.671	.498	.350	.292	.227	.069	.035	.019	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
22	.802	.688	.523	.365	.306	.238	.079	.048	.029	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
23	.813	.706	.544	.383	.321	.250	.085	.058	.040	.006	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
24	.823	.725	.563	.404	.335	.263	.096	.067	.044	.017	.002	.000	.000	.000	.000	.000	.000	.000	.000	.000
25	.829	.746	.581	.425	.352	.275	.100	.081	.048	.021	.010	.000	.000	.000	.000	.000	.000	.000	.000	.000
26	.833	.760	.606	.442	.371	.287	.106	.083	.063	.023	.015	.004	.000	.000	.000	.000	.000	.000	.000	.000
27	.838	.771	.627	.467	.381	.308	.110	.088	.067	.035	.019	.008	.000	.000	.000	.000	.000	.000	.000	.000
28	.842	.779	.644	.488	.402	.317	.127	.092	.069	.040	.029	.010	.002	.000	.000	.000	.000	.000	.000	.000
29	.844	.785	.658	.508	.415	.338	.133	.106	.071	.044	.033	.017	.004	.000	.000	.000	.000	.000	.000	.000
30	.846	.790	.669	.527	.427	.350	.150	.115	.079	.048	.038	.019	.010	.000	.000	.000	.000	.000	.000	.000
31	.848	.794	.675	.546	.435	.363	.163	.127	.088	.056	.042	.021	.013	.002	.000	.000	.000	.000	.000	.000
32	.850	.798	.679	.558	.450	.369	.177	.138	.098	.065	.048	.023	.015	.004	.000	.000	.000	.000	.000	.000
33	.852	.800	.685	.569	.463	.375	.190	.148	.106	.075	.054	.025	.017	.006	.000	.000	.000	.000	.000	.000
34	.854	.802	.692	.579	.473	.381	.200	.160	.113	.085	.063	.027	.019	.008	.000	.000	.000	.000	.000	.000
35	.856	.804	.698	.590	.483	.385	.213	.171	.121	.094	.073	.029	.021	.010	.000	.000	.000	.000	.000	.000
36	.858	.806	.702	.598	.496	.390	.223	.183	.129	.102	.081	.033	.023	.013	.000	.000	.000	.000	.000	.000
37	.860	.808	.706	.606	.504	.398	.233	.194	.140	.108	.092	.038	.025	.015	.000	.000	.000	.000	.000	.000
38	.860	.813	.710	.615	.510	.406	.246	.204	.150	.115	.098	.046	.027	.017	.000	.000	.000	.000	.000	.000
39	.863	.813	.719	.623	.517	.415	.258	.215	.160	.121	.104	.048	.035	.019	.000	.000	.000	.000	.000	.000
40	.865	.813	.725	.633	.523	.423	.271	.225	.171	.127	.110	.050	.038	.027	.000	.000	.000	.000	.000	.000

TOTAL OBSERVATIONS 480

TABLE 9. 1.b. P(W < W\*) I LAUNCH OPPORTUNITIES IN J PERIODS (W\* = 10 M/SEC).  
 BASED ON MAXIMUM WIND SPEEDS IN THE 10-15 KM LAYER OVER CAPE KENNEDY, FLORIDA.  
 PERIOD OF RECORD JANUARY 1956 - DECEMBER 1963.



CAPE KENNEDY, FLORIDA SEPTEMBER  
SPEEDS LESS THAN 015 MPS

PC ( 1 CONSECUTIVE SUCCESSES IN J PERIODS )

1

J	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
1	.425																			
2	.510	.335																		
3	.577	.396	.271																	
4	.633	.456	.317	.221																
5	.677	.510	.363	.256	.181															
6	.719	.563	.410	.292	.213	.146														
7	.754	.608	.452	.329	.244	.173	.119													
8	.785	.650	.492	.367	.277	.200	.144	.090												
9	.815	.685	.529	.398	.310	.229	.169	.110	.067											
10	.833	.715	.563	.429	.340	.258	.194	.131	.083	.048										
11	.854	.742	.594	.458	.367	.283	.219	.152	.100	.063	.031									
12	.873	.763	.617	.485	.394	.308	.240	.173	.117	.077	.042	.019								
13	.890	.783	.640	.513	.419	.331	.260	.190	.133	.092	.052	.025	.010							
14	.904	.800	.656	.538	.442	.354	.281	.206	.146	.106	.063	.031	.015	.004						
15	.917	.817	.673	.563	.465	.375	.300	.223	.158	.117	.073	.038	.019	.006	.000					
16	.925	.833	.690	.581	.488	.394	.319	.240	.171	.127	.079	.044	.023	.008	.000	.000				
17	.931	.846	.706	.598	.510	.413	.338	.254	.183	.138	.085	.048	.027	.010	.000	.000	.000			
18	.933	.854	.723	.615	.527	.431	.354	.269	.196	.148	.092	.052	.029	.013	.000	.000	.000	.000		
19	.935	.863	.740	.631	.544	.450	.371	.283	.206	.158	.098	.056	.031	.015	.000	.000	.000	.000	.000	
20	.938	.871	.754	.648	.560	.463	.388	.296	.217	.169	.104	.060	.033	.017	.000	.000	.000	.000	.000	.000
21	.938	.877	.769	.663	.577	.475	.404	.308	.227	.177	.110	.065	.035	.019	.000	.000	.000	.000	.000	.000
22	.938	.881	.781	.677	.594	.488	.415	.321	.238	.185	.117	.069	.038	.021	.000	.000	.000	.000	.000	.000
23	.938	.885	.792	.692	.608	.500	.425	.333	.248	.194	.121	.073	.040	.023	.000	.000	.000	.000	.000	.000
24	.938	.890	.800	.704	.623	.513	.438	.342	.258	.202	.125	.077	.042	.025	.000	.000	.000	.000	.000	.000
25	.938	.890	.808	.715	.638	.523	.450	.352	.269	.210	.129	.081	.044	.027	.000	.000	.000	.000	.000	.000
26	.938	.890	.817	.725	.650	.533	.460	.363	.275	.219	.133	.085	.046	.029	.000	.000	.000	.000	.000	.000
27	.938	.890	.821	.735	.665	.544	.471	.373	.281	.227	.138	.090	.048	.031	.000	.000	.000	.000	.000	.000
28	.938	.890	.825	.746	.677	.554	.481	.383	.288	.231	.142	.094	.050	.033	.000	.000	.000	.000	.000	.000
29	.938	.890	.829	.752	.690	.565	.494	.394	.294	.235	.146	.096	.052	.035	.000	.000	.000	.000	.000	.000
30	.938	.890	.833	.758	.702	.573	.504	.404	.300	.240	.150	.098	.052	.038	.000	.000	.000	.000	.000	.000
31	.938	.890	.833	.765	.713	.581	.515	.415	.306	.244	.154	.100	.052	.038	.000	.000	.000	.000	.000	.000
32	.938	.890	.833	.769	.723	.590	.523	.423	.313	.248	.158	.102	.052	.038	.000	.000	.000	.000	.000	.000
33	.938	.890	.833	.771	.731	.598	.529	.431	.319	.252	.163	.104	.052	.038	.000	.000	.000	.000	.000	.000
34	.938	.890	.833	.773	.740	.604	.535	.440	.323	.256	.167	.106	.052	.038	.000	.000	.000	.000	.000	.000
35	.938	.890	.833	.775	.746	.610	.540	.446	.327	.260	.171	.108	.052	.038	.000	.000	.000	.000	.000	.000
36	.938	.890	.833	.777	.752	.617	.544	.450	.331	.263	.175	.110	.052	.038	.000	.000	.000	.000	.000	.000
37	.938	.890	.833	.779	.756	.623	.548	.454	.333	.265	.179	.113	.052	.038	.000	.000	.000	.000	.000	.000
38	.940	.890	.833	.781	.760	.629	.552	.458	.335	.265	.181	.115	.052	.038	.000	.000	.000	.000	.000	.000
39	.942	.892	.833	.783	.765	.635	.556	.463	.338	.265	.181	.117	.052	.038	.000	.000	.000	.000	.000	.000
40	.944	.894	.835	.785	.769	.642	.560	.467	.340	.265	.181	.117	.052	.038	.000	.000	.000	.000	.000	.000

TOTAL OBSERVATIONS 480

TABLE 9. 2. a. P(W < W\*) 1 CONSECUTIVE LAUNCH OPPORTUNITIES IN J PERIODS (W\* = 15 M/SEC).  
BASED ON MAXIMUM WIND SPEEDS IN THE 10-15 KM LAYER OVER CAPE KENNEDY, FLORIDA.  
PERIOD OF RECORD JANUARY 1956 - DECEMBER 1963.

CAPE KENNEDY, FLORIDA SEPTEMBER

SPEFDS LESS THAN 015 MPS

P ( I SUCCESSES IN J PERIODS )

	I																			
J	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
1	.425																			
2	.510	.335																		
3	.577	.415	.271																	
4	.633	.477	.346	.221																
5	.677	.542	.400	.290	.181															
6	.719	.588	.465	.331	.250	.146														
7	.754	.635	.513	.390	.285	.210	.119													
8	.785	.671	.571	.433	.335	.244	.179	.090												
9	.815	.702	.613	.490	.375	.292	.208	.148	.067											
10	.833	.740	.648	.527	.431	.327	.252	.173	.121	.048										
11	.854	.760	.692	.558	.471	.379	.288	.213	.142	.098	.031									
12	.873	.781	.715	.602	.504	.417	.338	.248	.175	.113	.077	.019								
13	.890	.800	.738	.621	.556	.450	.373	.298	.204	.142	.088	.058	.010							
14	.904	.821	.758	.640	.579	.506	.402	.335	.248	.169	.110	.067	.044	.004						
15	.917	.840	.779	.658	.602	.525	.460	.369	.279	.210	.131	.083	.048	.033	.000					
16	.925	.858	.800	.677	.625	.544	.475	.435	.313	.240	.165	.100	.056	.040	.027	.000				
17	.931	.869	.825	.696	.648	.563	.490	.452	.385	.269	.194	.127	.067	.046	.031	.023	.000			
18	.933	.881	.842	.721	.667	.585	.506	.467	.408	.342	.221	.156	.083	.054	.035	.027	.019	.000		
19	.935	.890	.858	.746	.690	.600	.529	.481	.429	.363	.296	.179	.110	.067	.042	.029	.023	.017	.000	
20	.938	.894	.871	.777	.710	.619	.544	.502	.446	.383	.319	.250	.133	.088	.052	.031	.025	.021	.015	.000
21	.938	.898	.879	.802	.742	.638	.560	.515	.469	.398	.342	.273	.202	.108	.067	.038	.027	.023	.019	.013
22	.938	.900	.885	.819	.767	.671	.577	.529	.479	.421	.358	.298	.227	.173	.081	.050	.029	.025	.021	.017
23	.938	.900	.890	.835	.788	.698	.606	.544	.492	.429	.385	.319	.254	.198	.140	.060	.038	.025	.023	.019
24	.938	.900	.890	.850	.808	.723	.631	.567	.504	.438	.396	.352	.281	.223	.167	.108	.042	.033	.023	.021
25	.938	.900	.890	.856	.827	.750	.660	.588	.519	.448	.402	.365	.323	.252	.192	.133	.079	.035	.029	.021
26	.938	.900	.890	.863	.833	.775	.690	.619	.531	.460	.408	.371	.342	.298	.223	.152	.102	.063	.031	.025
27	.938	.900	.890	.867	.842	.785	.717	.650	.556	.473	.415	.377	.352	.321	.273	.179	.113	.083	.054	.027
28	.938	.900	.890	.871	.846	.800	.729	.679	.588	.496	.421	.383	.363	.335	.296	.227	.135	.090	.075	.046
29	.938	.900	.890	.873	.850	.806	.748	.694	.619	.525	.438	.390	.369	.352	.310	.250	.177	.110	.077	.069
30	.938	.900	.890	.875	.852	.810	.756	.719	.635	.554	.465	.400	.375	.358	.331	.263	.200	.148	.094	.069
31	.938	.900	.890	.877	.854	.813	.760	.727	.667	.575	.494	.425	.381	.365	.342	.283	.213	.169	.125	.081
32	.938	.900	.890	.881	.856	.815	.763	.733	.677	.613	.510	.454	.400	.371	.352	.296	.233	.177	.144	.106
33	.938	.900	.890	.883	.860	.817	.765	.738	.683	.629	.544	.475	.425	.385	.360	.308	.250	.192	.152	.121
34	.938	.900	.890	.883	.865	.821	.767	.742	.688	.642	.560	.510	.440	.410	.371	.319	.267	.204	.167	.127
35	.938	.900	.890	.883	.867	.825	.771	.746	.692	.652	.573	.531	.467	.425	.396	.325	.287	.219	.177	.140
36	.938	.900	.890	.883	.869	.829	.775	.750	.696	.658	.588	.546	.483	.450	.410	.346	.294	.238	.192	.148
37	.938	.900	.890	.883	.869	.831	.783	.754	.700	.665	.598	.563	.496	.465	.433	.363	.308	.248	.210	.160
38	.940	.900	.890	.883	.869	.831	.788	.765	.704	.673	.604	.577	.510	.477	.446	.388	.325	.263	.221	.177
39	.942	.902	.890	.883	.869	.831	.792	.767	.717	.679	.615	.585	.523	.494	.456	.406	.352	.277	.231	.185
40	.944	.904	.892	.883	.869	.831	.794	.769	.725	.692	.621	.600	.531	.504	.473	.419	.377	.300	.244	.194

TOTAL OBSERVATIONS 430

TABLE 9. 2.b. P(W < W\*) I LAUNCH OPPORTUNITIES IN J PERIODS (W\* = 15 M/SEC).  
 BASED ON MAXIMUM WIND SPEEDS IN THE 10-15 KM LAYER OVER CAPE KENNEDY, FLORIDA.  
 PERIOD OF RECORD JANUARY 1956 - DECEMBER 1963.

CAPE KENNEDY, FLORIDA SEPTEMBER  
SPEEDS LESS THAN 020 MPS

PC ( I CONSECUTIVE SUCCESSES IN J PERIODS )

	I																			
J	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
1	.667																			
2	.756	.575																		
3	.810	.644	.502																	
4	.858	.713	.569	.433																
5	.894	.760	.635	.496	.371															
6	.925	.806	.702	.558	.423	.319														
7	.948	.842	.748	.621	.475	.360	.277													
8	.967	.875	.792	.683	.527	.402	.315	.240												
9	.977	.898	.827	.729	.579	.444	.352	.273	.202											
10	.983	.919	.858	.771	.629	.485	.390	.306	.229	.171										
11	.990	.933	.881	.804	.673	.525	.427	.340	.256	.198	.140									
12	.996	.944	.902	.835	.713	.565	.463	.373	.283	.223	.167	.108								
13	1.00	.954	.921	.858	.750	.598	.498	.404	.310	.248	.192	.131	.081							
14	1.00	.965	.933	.881	.785	.629	.533	.435	.335	.273	.217	.152	.102	.058						
15	1.00	.975	.946	.900	.815	.658	.565	.467	.360	.296	.242	.173	.121	.073	.042					
16	1.00	.981	.958	.913	.840	.688	.594	.498	.385	.319	.265	.194	.140	.085	.050	.031				
17	1.00	.988	.971	.925	.860	.710	.621	.525	.410	.342	.288	.213	.158	.098	.058	.038	.025			
18	1.00	.992	.977	.938	.873	.729	.646	.552	.433	.365	.310	.231	.175	.110	.067	.044	.029	.021		
19	1.00	.994	.983	.950	.885	.744	.665	.577	.454	.385	.333	.250	.192	.121	.075	.050	.033	.025	.017	
20	1.00	.996	.988	.958	.898	.754	.679	.600	.475	.406	.354	.269	.208	.131	.083	.056	.038	.029	.021	.013
21	1.00	.998	.990	.967	.910	.765	.692	.621	.496	.425	.375	.285	.225	.142	.092	.063	.042	.033	.025	.017
22	1.00	1.00	.992	.973	.921	.775	.702	.638	.515	.444	.396	.302	.242	.152	.100	.069	.046	.038	.029	.021
23	1.00	1.00	.994	.977	.931	.785	.713	.652	.531	.463	.415	.319	.258	.163	.108	.075	.050	.042	.033	.025
24	1.00	1.00	.996	.979	.940	.796	.723	.663	.548	.479	.433	.335	.275	.173	.117	.081	.054	.046	.038	.029
25	1.00	1.00	.996	.981	.946	.806	.733	.677	.560	.496	.452	.350	.292	.183	.125	.088	.058	.050	.042	.033
26	1.00	1.00	.996	.983	.950	.817	.744	.690	.573	.510	.471	.365	.308	.194	.133	.094	.063	.054	.046	.038
27	1.00	1.00	.996	.983	.952	.825	.754	.702	.585	.521	.488	.379	.323	.204	.142	.100	.067	.058	.050	.042
28	1.00	1.00	.996	.983	.954	.831	.765	.715	.598	.531	.502	.394	.338	.215	.150	.106	.071	.063	.054	.046
29	1.00	1.00	.996	.983	.954	.838	.773	.727	.610	.542	.513	.406	.352	.223	.158	.113	.075	.067	.058	.050
30	1.00	1.00	.996	.983	.954	.844	.781	.738	.623	.552	.523	.417	.367	.231	.167	.119	.079	.071	.063	.054
31	1.00	1.00	.996	.983	.954	.848	.790	.746	.635	.563	.533	.425	.379	.240	.175	.125	.083	.075	.067	.058
32	1.00	1.00	.996	.983	.954	.852	.798	.754	.646	.573	.544	.433	.390	.248	.181	.131	.088	.079	.071	.063
33	1.00	1.00	.996	.983	.954	.856	.804	.763	.654	.583	.554	.442	.400	.256	.188	.135	.092	.083	.075	.067
34	1.00	1.00	.996	.983	.954	.860	.808	.771	.663	.592	.565	.450	.410	.265	.194	.140	.096	.088	.079	.071
35	1.00	1.00	.996	.983	.954	.865	.813	.775	.671	.598	.575	.458	.421	.273	.200	.144	.100	.092	.083	.075
36	1.00	1.00	.996	.983	.954	.869	.817	.779	.677	.604	.583	.467	.431	.281	.206	.148	.104	.096	.088	.079
37	1.00	1.00	.996	.983	.954	.873	.821	.783	.681	.608	.590	.475	.442	.290	.213	.152	.108	.100	.092	.083
38	1.00	1.00	.996	.983	.954	.877	.825	.788	.685	.613	.594	.481	.452	.298	.219	.156	.113	.104	.096	.088
39	1.00	1.00	.998	.983	.954	.881	.829	.792	.690	.615	.598	.485	.463	.306	.225	.160	.117	.108	.100	.092
40	1.00	1.00	.998	.985	.954	.885	.833	.796	.694	.617	.602	.490	.469	.315	.231	.165	.121	.113	.104	.096

TOTAL OBSERVATIONS 480

TABLE 9. 3. a. P(W < W\*) I CONSECUTIVE LAUNCH OPPORTUNITIES IN J PERIODS (W\* = 20 M/SEC).  
BASED ON MAXIMUM WIND SPEEDS IN THE 10-15 KM LAYER OVER CAPE KENNEDY, FLORIDA.

CAPE KENNEDY, FLORIDA SEPTEMBER  
SPEEDS LESS THAN 020 MPS

P ( I SUCCESSES IN J PERIODS )

	I																			
J	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
1	.667																			
2	.756	.575																		
3	.810	.679	.502																	
4	.858	.733	.625	.433																
5	.894	.792	.679	.573	.371															
6	.925	.833	.744	.631	.515	.319														
7	.948	.875	.788	.702	.577	.454	.277													
8	.967	.904	.833	.752	.652	.510	.410	.240												
9	.977	.933	.865	.804	.710	.581	.467	.367	.202											
10	.983	.948	.906	.835	.769	.644	.535	.423	.317	.171										
11	.990	.956	.929	.883	.802	.706	.602	.490	.379	.271	.140									
12	.996	.967	.940	.910	.856	.742	.667	.560	.448	.329	.231	.108								
13	1.00	.977	.954	.921	.888	.804	.700	.629	.527	.396	.285	.194	.081							
14	1.00	.988	.969	.938	.900	.844	.760	.667	.596	.481	.346	.244	.163	.058						
15	1.00	.990	.985	.954	.919	.865	.802	.727	.633	.548	.433	.298	.213	.129	.042					
16	1.00	.992	.988	.979	.935	.892	.823	.771	.694	.583	.510	.379	.265	.171	.102	.031				
17	1.00	.994	.990	.983	.969	.913	.850	.794	.740	.642	.548	.460	.344	.215	.144	.083	.025			
18	1.00	.996	.992	.985	.977	.952	.871	.825	.763	.688	.606	.506	.425	.288	.181	.123	.069	.021		
19	1.00	.998	.994	.988	.979	.967	.917	.848	.792	.713	.650	.569	.475	.367	.252	.154	.106	.058	.017	
20	1.00	1.00	.996	.990	.981	.971	.938	.898	.815	.744	.673	.613	.538	.423	.329	.221	.133	.092	.050	.013
21	1.00	1.00	1.00	.992	.983	.975	.944	.923	.867	.775	.698	.638	.579	.488	.388	.296	.194	.115	.079	.042
22	1.00	1.00	1.00	.998	.985	.977	.952	.929	.896	.831	.729	.663	.604	.529	.456	.352	.267	.169	.100	.067
23	1.00	1.00	1.00	.998	.994	.979	.958	.938	.902	.861	.792	.694	.631	.550	.504	.423	.325	.238	.148	.085
24	1.00	1.00	1.00	.998	.994	.990	.963	.946	.910	.873	.827	.754	.665	.575	.525	.475	.398	.294	.215	.127
25	1.00	1.00	1.00	.998	.994	.990	.977	.950	.919	.885	.846	.788	.723	.608	.550	.498	.450	.371	.271	.192
26	1.00	1.00	1.00	.998	.994	.990	.979	.967	.923	.898	.863	.806	.758	.667	.575	.527	.473	.427	.348	.248
27	1.00	1.00	1.00	.998	.994	.990	.979	.971	.942	.904	.877	.827	.779	.702	.623	.558	.500	.452	.408	.325
28	1.00	1.00	1.00	.998	.994	.990	.979	.973	.946	.927	.888	.842	.802	.725	.654	.602	.533	.481	.431	.390
29	1.00	1.00	1.00	.998	.994	.990	.979	.973	.950	.933	.915	.856	.817	.756	.669	.633	.571	.519	.460	.413
30	1.00	1.00	1.00	.998	.994	.990	.979	.973	.950	.942	.921	.888	.833	.775	.694	.650	.600	.554	.502	.442
31	1.00	1.00	1.00	.998	.994	.990	.979	.973	.950	.942	.935	.896	.867	.798	.706	.675	.619	.579	.535	.485
32	1.00	1.00	1.00	1.00	.994	.990	.979	.973	.950	.942	.935	.915	.881	.833	.727	.688	.644	.598	.558	.517
33	1.00	1.00	1.00	1.00	.996	.990	.979	.973	.950	.942	.935	.919	.902	.854	.758	.708	.667	.623	.579	.535
34	1.00	1.00	1.00	1.00	1.00	.990	.979	.973	.950	.942	.935	.921	.910	.877	.779	.738	.685	.640	.604	.554
35	1.00	1.00	1.00	1.00	1.00	.996	.979	.973	.950	.942	.935	.923	.913	.894	.800	.758	.715	.663	.625	.575
36	1.00	1.00	1.00	1.00	1.00	.998	.983	.973	.950	.942	.935	.923	.917	.898	.821	.779	.740	.688	.648	.598
37	1.00	1.00	1.00	1.00	1.00	1.00	.985	.977	.950	.942	.935	.923	.917	.906	.831	.800	.758	.715	.671	.619
38	1.00	1.00	1.00	1.00	1.00	1.00	.990	.979	.954	.942	.935	.923	.917	.906	.850	.808	.779	.735	.698	.638
39	1.00	1.00	1.00	1.00	1.00	1.00	.994	.983	.958	.944	.935	.923	.917	.906	.858	.827	.785	.756	.723	.663
40	1.00	1.00	1.00	1.00	1.00	1.00	.994	.990	.965	.946	.948	.923	.917	.906	.863	.838	.804	.760	.746	.692

TOTAL OBSERVATIONS 480

TABLE 9. 3. b. P(W < W\*) I LAUNCH OPPORTUNITIES IN J PERIODS (W\* = 20 M/SEC).  
BASED ON MAXIMUM WIND SPEEDS IN THE 10-15 KM LAYER OVER CAPE KENNEDY, FLORIDA.

PERIOD OF RECORD JANUARY 1956 - DECEMBER 1963.

CAPE KENNEDY, FLORIDA SEPTEMBER  
SPEEDS LESS THAN 025 MPS

PC ( I CONSECUTIVE SUCCESSES IN J PERIODS )

J	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
1	.846																			
2	.896	.792																		
3	.935	.838	.742																	
4	.967	.885	.783	.696																
5	.977	.923	.827	.733	.654															
6	.985	.952	.871	.773	.690	.615														
7	.992	.965	.908	.813	.727	.650	.573													
8	.998	.975	.940	.852	.765	.688	.608	.531												
9	1.00	.983	.954	.885	.807	.725	.644	.565	.490											
10	1.00	.994	.965	.915	.840	.763	.683	.600	.519	.450										
11	1.00	.998	.975	.929	.873	.800	.721	.635	.550	.477	.410									
12	1.00	1.00	.985	.942	.902	.838	.758	.671	.581	.504	.435	.373								
13	1.00	1.00	.990	.954	.919	.871	.796	.706	.613	.535	.463	.398	.338							
14	1.00	1.00	.994	.967	.931	.902	.833	.742	.644	.565	.490	.425	.360	.302						
15	1.00	1.00	.996	.973	.944	.919	.869	.777	.675	.594	.517	.452	.385	.323	.269					
16	1.00	1.00	.998	.977	.956	.931	.900	.815	.706	.623	.544	.479	.410	.346	.281	.244				
17	1.00	1.00	1.00	.981	.963	.944	.917	.848	.738	.657	.571	.506	.435	.369	.296	.254	.221			
18	1.00	1.00	1.00	.985	.967	.956	.929	.877	.769	.681	.598	.533	.460	.392	.310	.267	.231	.198		
19	1.00	1.00	1.00	.990	.971	.963	.942	.894	.796	.710	.625	.560	.485	.415	.325	.279	.244	.208	.177	
20	1.00	1.00	1.00	.992	.975	.967	.954	.908	.821	.740	.652	.588	.510	.438	.340	.292	.256	.221	.188	.156
21	1.00	1.00	1.00	.994	.979	.971	.960	.923	.835	.765	.679	.615	.535	.460	.354	.304	.269	.233	.198	.165
22	1.00	1.00	1.00	.996	.983	.975	.965	.938	.850	.788	.704	.642	.560	.483	.369	.317	.281	.246	.208	.173
23	1.00	1.00	1.00	.998	.988	.979	.969	.946	.865	.800	.727	.667	.585	.506	.383	.329	.294	.258	.219	.181
24	1.00	1.00	1.00	1.00	.992	.983	.973	.952	.879	.813	.750	.692	.608	.529	.398	.342	.306	.271	.229	.190
25	1.00	1.00	1.00	1.00	.996	.988	.977	.958	.890	.825	.763	.717	.631	.550	.413	.354	.319	.283	.240	.198
26	1.00	1.00	1.00	1.00	1.00	.992	.981	.965	.898	.840	.775	.740	.656	.571	.427	.367	.331	.296	.250	.206
27	1.00	1.00	1.00	1.00	1.00	.996	.985	.971	.906	.849	.790	.752	.679	.592	.442	.379	.344	.308	.260	.215
28	1.00	1.00	1.00	1.00	1.00	1.00	.990	.977	.915	.856	.804	.767	.700	.613	.456	.392	.356	.321	.271	.223
29	1.00	1.00	1.00	1.00	1.00	1.00	.994	.983	.923	.865	.815	.781	.713	.633	.471	.404	.369	.333	.281	.231
30	1.00	1.00	1.00	1.00	1.00	1.00	.998	.988	.931	.873	.825	.796	.725	.654	.485	.417	.381	.346	.292	.240
31	1.00	1.00	1.00	1.00	1.00	1.00	.998	.992	.940	.881	.835	.806	.738	.669	.500	.429	.394	.358	.302	.248
32	1.00	1.00	1.00	1.00	1.00	1.00	.998	.996	.946	.890	.846	.817	.750	.683	.515	.442	.406	.371	.313	.256
33	1.00	1.00	1.00	1.00	1.00	1.00	.998	.996	.952	.898	.856	.827	.760	.698	.525	.454	.419	.383	.323	.265
34	1.00	1.00	1.00	1.00	1.00	1.00	.998	.996	.958	.904	.867	.838	.771	.713	.535	.467	.431	.396	.333	.273
35	1.00	1.00	1.00	1.00	1.00	1.00	.998	.996	.960	.910	.877	.848	.781	.725	.546	.477	.444	.408	.344	.281
36	1.00	1.00	1.00	1.00	1.00	1.00	.998	.996	.963	.917	.885	.858	.792	.738	.556	.488	.456	.421	.354	.290
37	1.00	1.00	1.00	1.00	1.00	1.00	.998	.996	.967	.921	.894	.869	.802	.750	.567	.499	.467	.433	.365	.298
38	1.00	1.00	1.00	1.00	1.00	1.00	.998	.996	.969	.927	.902	.877	.813	.763	.577	.508	.477	.446	.375	.306
39	1.00	1.00	1.00	1.00	1.00	1.00	.998	.996	.971	.933	.910	.885	.823	.775	.588	.519	.488	.454	.385	.315
40	1.00	1.00	1.00	1.00	1.00	1.00	.998	.996	.973	.938	.919	.896	.831	.788	.598	.529	.498	.467	.398	.323

TOTAL OBSERVATIONS 490

TABLE 9. 4.a. P(W < W\*) I CONSECUTIVE LAUNCH OPPORTUNITIES IN J PERIODS (W\* = 25 M/SEC).  
BASED ON MAXIMUM WIND SPEEDS IN THE 10-15 KM LAYER OVER CAPE KENNEDY, FLORIDA.  
PERIOD OF RECORD JANUARY 1956 - DECEMBER 1963.

CAPE KENNEDY, FLORIDA SEPTEMBER  
SPEEDS LESS THAN 25 MPH

P ( I SUCCESSSES IN J PERIODS )

J	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	
1	.846																				
2	.896	.792																			
3	.935	.850	.742																		
4	.967	.896	.806	.696																	
5	.977	.946	.860	.763	.654																
6	.985	.963	.927	.823	.723	.615															
7	.992	.973	.948	.906	.798	.689	.573														
8	.998	.981	.958	.933	.883	.758	.650	.531													
9	1.00	.994	.969	.946	.913	.869	.729	.610	.490												
10	1.00	1.00	.985	.960	.925	.900	.854	.696	.569	.450											
11	1.00	1.00	.996	.981	.942	.915	.898	.835	.656	.531	.410										
12	1.00	1.00	.998	.994	.969	.931	.904	.873	.806	.621	.492	.373									
13	1.00	1.00	1.00	.996	.985	.960	.923	.894	.848	.783	.579	.456	.338								
14	1.00	1.00	1.00	1.00	.994	.973	.956	.915	.877	.825	.754	.544	.419	.302							
15	1.00	1.00	1.00	1.00	1.00	.985	.967	.952	.904	.858	.794	.731	.504	.381	.269						
16	1.00	1.00	1.00	1.00	1.00	.996	.979	.963	.948	.892	.831	.769	.700	.469	.340	.244					
17	1.00	1.00	1.00	1.00	1.00	.998	.992	.975	.958	.944	.869	.810	.735	.671	.431	.306	.221				
18	1.00	1.00	1.00	1.00	1.00	1.00	.996	.988	.971	.954	.931	.852	.781	.706	.642	.396	.277	.198			
19	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.994	.983	.967	.944	.921	.829	.754	.681	.606	.365	.250	.177		
20	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.992	.979	.958	.933	.904	.808	.733	.648	.575	.335	.225	.156	
21	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.990	.973	.948	.919	.888	.794	.708	.610	.550	.304	.198	
22	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.985	.965	.935	.902	.877	.777	.673	.583	.523	.273	
23	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.998	.979	.956	.919	.892	.865	.744	.650	.550	.496	
24	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.998	.994	.973	.946	.906	.879	.835	.725	.625	.533
25	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.998	.996	.990	.967	.935	.892	.852	.821	.702	.604
26	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.998	.996	.992	.985	.960	.921	.869	.835	.802	.681
27	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.998	.996	.992	.988	.981	.948	.902	.854	.817	.785
28	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.998	.996	.992	.988	.983	.973	.931	.890	.838	.800
29	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.998	.996	.992	.988	.983	.977	.960	.919	.879	.819
30	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.992	.988	.983	.977	.969	.950	.906	.865	
31	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.998	.988	.983	.977	.971	.960	.938	.892	
32	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.998	.996	.983	.979	.971	.965	.948	.927	
33	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.998	.996	.994	.979	.973	.965	.954	.940	
34	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.998	.996	.994	.992	.975	.967	.956	.946	
35	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.998	.996	.994	.992	.990	.971	.960	.948	
36	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.998	.996	.994	.992	.990	.988	.967	.954	
37	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.998	.994	.994	.992	.990	.988	.985	.960	
38	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.996	.994	.992	.990	.988	.985	.981	
39	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.998	.994	.992	.990	.988	.985	.983	
40	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.998	.996	.992	.990	.988	.985	.983	

TOTAL OBSERVATIONS 480

TABLE 9. 4.b. P(W < W\*) I LAUNCH OPPORTUNITIES IN J PERIODS (W\* = 25 M/SEC).  
BASED ON MAXIMUM WIND SPEEDS IN THE 10-15 KM LAYER OVER CAPE KENNEDY, FLORIDA.  
PERIOD OF RECORD JANUARY 1956 - DECEMBER 1963.

CAPE KENNEDY, FLORIDA SEPTEMBER  
SPEEDS LESS THAN 030 MPS

PC ( I CONSECUTIVE SUCCESSES IN J PERIODS )

	I																			
J	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
1	.946																			
2	.979	.910																		
3	.992	.942	.877																	
4	.998	.973	.906	.846																
5	1.00	.985	.935	.871	.819															
6	1.00	.994	.965	.896	.842	.794														
7	1.00	.998	.981	.921	.865	.817	.767													
8	1.00	1.00	.992	.944	.888	.840	.788	.742												
9	1.00	1.00	.998	.967	.913	.863	.808	.763	.717											
10	1.00	1.00	1.00	.981	.938	.888	.829	.783	.738	.692										
11	1.00	1.00	1.00	.992	.948	.913	.852	.804	.758	.713	.667									
12	1.00	1.00	1.00	.998	.975	.938	.875	.827	.779	.733	.688	.642								
13	1.00	1.00	1.00	1.00	.988	.958	.899	.850	.802	.754	.708	.663	.617							
14	1.00	1.00	1.00	1.00	.996	.975	.921	.873	.825	.777	.729	.683	.638	.585						
15	1.00	1.00	1.00	1.00	1.00	.988	.942	.896	.848	.800	.752	.704	.658	.606	.554					
16	1.00	1.00	1.00	1.00	1.00	.996	.956	.921	.871	.823	.775	.727	.679	.627	.573	.525				
17	1.00	1.00	1.00	1.00	1.00	1.00	.967	.942	.896	.844	.798	.750	.702	.648	.592	.542	.496			
18	1.00	1.00	1.00	1.00	1.00	1.00	.973	.956	.921	.871	.821	.773	.725	.671	.610	.558	.510	.469		
19	1.00	1.00	1.00	1.00	1.00	1.00	.977	.967	.942	.896	.846	.796	.748	.694	.631	.575	.525	.481	.444	
20	1.00	1.00	1.00	1.00	1.00	1.00	.979	.973	.956	.921	.871	.821	.771	.717	.652	.594	.540	.494	.456	.421
21	1.00	1.00	1.00	1.00	1.00	1.00	.981	.977	.967	.942	.896	.846	.796	.740	.673	.613	.554	.506	.469	.433
22	1.00	1.00	1.00	1.00	1.00	1.00	.983	.979	.973	.956	.919	.871	.821	.763	.694	.631	.569	.519	.481	.444
23	1.00	1.00	1.00	1.00	1.00	1.00	.985	.981	.977	.967	.940	.894	.846	.785	.715	.650	.583	.531	.494	.458
24	1.00	1.00	1.00	1.00	1.00	1.00	.988	.983	.979	.973	.956	.917	.869	.808	.735	.669	.598	.544	.506	.471
25	1.00	1.00	1.00	1.00	1.00	1.00	.990	.985	.981	.977	.967	.940	.892	.829	.756	.688	.613	.556	.519	.483
26	1.00	1.00	1.00	1.00	1.00	1.00	.992	.988	.983	.979	.973	.956	.917	.850	.777	.706	.627	.569	.531	.496
27	1.00	1.00	1.00	1.00	1.00	1.00	.994	.990	.985	.981	.977	.967	.940	.873	.798	.725	.642	.581	.544	.508
28	1.00	1.00	1.00	1.00	1.00	1.00	.996	.992	.988	.983	.979	.973	.956	.896	.819	.744	.656	.594	.556	.521
29	1.00	1.00	1.00	1.00	1.00	1.00	.998	.994	.990	.985	.981	.977	.967	.919	.840	.763	.671	.606	.569	.533
30	1.00	1.00	1.00	1.00	1.00	1.00	.994	.992	.988	.983	.979	.973	.935	.863	.781	.685	.619	.581	.544	
31	1.00	1.00	1.00	1.00	1.00	1.00	.998	.994	.990	.985	.981	.977	.946	.883	.802	.700	.631	.594	.558	
32	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.996	.992	.988	.983	.979	.952	.900	.823	.715	.644	.606	.571	
33	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.998	.994	.990	.985	.981	.956	.913	.842	.729	.656	.619	.583	
34	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.996	.992	.988	.983	.960	.921	.858	.744	.669	.631	.596	
35	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.998	.994	.990	.985	.963	.927	.871	.756	.681	.644	.608	
36	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.996	.992	.988	.965	.931	.879	.769	.694	.656	.621	
37	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.998	.994	.990	.967	.935	.885	.779	.704	.669	.633
38	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.996	.992	.969	.940	.890	.788	.715	.681	.644
39	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.998	.994	.971	.944	.894	.794	.723	.658
40	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.996	.973	.948	.898	.800	.729	.702	.671

TOTAL OBSERVATIONS 480

TABLE 9. 5.a. (W < W\*) I CONSECUTIVE LAUNCH OPPORTUNITIES IN J PERIODS (W\* = 30 M/SEC).  
BASED ON MAXIMUM WIND SPEEDS IN THE 10-15 KM LAYER OVER CAPE KENNEDY, FLORIDA.  
PERIOD OF RECORD JANUARY 1956 - DECEMBER 1963.

CAPE KENNEDY, FLORIDA SEPTEMBER  
SPEEDS LESS THAN 030 MPS

( I SUCCESSES IN J PERIODS )

	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	
1	.946																				
2	.979	.910																			
3	.992	.965	.877																		
4	.998	.983	.948	.846																	
5	1.00	.994	.977	.927	.819																
6	1.00	1.00	.990	.969	.906	.794															
7	1.00	1.00	1.00	.985	.960	.885	.767														
8	1.00	1.00	1.00	1.00	.981	.952	.860	.742													
9	1.00	1.00	1.00	1.00	1.00	.977	.942	.838	.717												
10	1.00	1.00	1.00	1.00	1.00	1.00	.973	.929	.817	.692											
11	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.965	.921	.796	.667										
12	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.994	.960	.913	.773	.642									
13	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.998	.994	.954	.904	.750	.617								
14	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.996	.992	.948	.896	.727	.585							
15	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.994	.988	.944	.888	.702	.534						
16	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.990	.985	.940	.879	.675	.525					
17	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.998	.988	.983	.935	.869	.648	.496				
18	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.994	.985	.981	.931	.856	.619	.449			
19	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.994	.983	.979	.927	.840	.588	.444		
20	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.992	.981	.977	.919	.821	.558	.421		
21	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.990	.979	.971	.910	.800	.533	
22	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.988	.975	.965	.896	.783	
23	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.983	.971	.952	.885	
24	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.998	.979	.965	.940	
25	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.998	.996	.975	.958	
26	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.998	.996	.994	.969	
27	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.998	.994	.994	.990	
28	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.998	.996	.994	.992	
29	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.994	.994	.992		
30	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.994	.992
31	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.992
32	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
33	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
34	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
35	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
36	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
37	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
38	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
39	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
40	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00

TOTAL OBSERVATIONS 480

TABLE 9. 5.b. P(W < W<sub>0</sub>) I LAUNCH OPPORTUNITIES IN J PERIODS (W<sub>0</sub> = 30 M/SEC).  
BASED ON MAXIMUM WIND SPEEDS IN THE 10-15 KM LAYER OVER CAPE KENNEDY, FLORIDA.  
PERIOD OF RECORD JANUARY 1956 - DECEMBER 1963.



CAPE KENNEDY, FLORIDA SEPTEMBER  
SPEEDS LESS THAN 035 MPS

PC ( I CONSECUTIVE SUCCESSSES IN J PERIODS )

J	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15						
1	.996																				
2	1.00	.992																			
3	1.00	.996	.988																		
4	1.00	1.00	.992	.983																	
5	1.00	1.00	.996	.988	.979																
6	1.00	1.00	1.00	.992	.983	.975															
7	1.00	1.00	1.00	.996	.988	.979	.969														
8	1.00	1.00	1.00	1.00	.992	.983	.973	.963													
9	1.00	1.00	1.00	1.00	.996	.988	.977	.967	.956												
10	1.00	1.00	1.00	1.00	1.00	.992	.981	.971	.960	.950											
11	1.00	1.00	1.00	1.00	1.00	.996	.985	.975	.965	.954	.944										
12	1.00	1.00	1.00	1.00	1.00	1.00	.990	.979	.969	.958	.948	.935									
13	1.00	1.00	1.00	1.00	1.00	1.00	.994	.983	.973	.963	.952	.940	.927								
14	1.00	1.00	1.00	1.00	1.00	1.00	.998	.988	.977	.967	.956	.944	.931	.917							
15	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.992	.981	.971	.960	.948	.935	.921	.906						
16	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.998	.985	.975	.965	.952	.940	.925	.910	.896					
17	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.992	.979	.969	.956	.944	.929	.915	.900	.885				
18	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.998	.985	.973	.960	.948	.933	.919	.904	.890	.873			
19	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.992	.979	.965	.952	.938	.923	.908	.894	.877	.860		
20	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.998	.985	.971	.956	.942	.927	.913	.898	.881	.865	.846	
21	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.992	.977	.963	.946	.931	.917	.902	.885	.869	.850	
22	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.998	.983	.969	.952	.935	.921	.906	.890	.873	.854
23	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.990	.975	.958	.942	.925	.910	.894	.877	.858	
24	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.996	.981	.965	.948	.931	.915	.898	.881	.863	
25	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.988	.971	.954	.938	.921	.902	.885	.867	
26	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.996	.977	.960	.944	.927	.908	.890	.871	
27	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.985	.967	.950	.933	.915	.894	.875	
28	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.996	.973	.956	.940	.921	.898	.879	
29	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.981	.963	.946	.927	.902	.883	
30	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.990	.971	.952	.933	.906	.888	
31	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.992	.979	.960	.940	.910	.892	
32	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.992	.988	.969	.946	.915	.896	
33	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.992	.990	.977	.952	.919	.900	
34	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.992	.990	.985	.958	.923	.904	
35	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.992	.990	.988	.965	.927	.908	
36	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.992	.990	.988	.971	.931	.913	
37	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.992	.990	.988	.973	.935	.917	
38	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.992	.990	.988	.973	.940	.921	
39	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.992	.990	.988	.973	.940	.925	
40	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.992	.990	.988	.973	.940	.929	

TOTAL OBSERVATIONS 480

TABLE 9. 6.a. P(W < W\*) I CONSECUTIVE LAUNCH OPPORTUNITIES IN J PERIODS (W\* = 35 M/SEC).  
BASED ON MAXIMUM WIND SPEEDS IN THE 10-15 KM LAYER OVER CAPE KENNEDY, FLORIDA.  
PERIOD OF RECORD JANUARY 1956 - DECEMBER 1963.

CAPE KENNEDY, FLORIDA SEPTEMBER  
SPEEDS LESS THAN 35 MPS

P ( I SUCCESSSES IN J PERIODS )

	I																			
J	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
1	.996																			
2	1.00	.992																		
3	1.00	1.00	.988																	
4	1.00	1.00	1.00	.983																
5	1.00	1.00	1.00	1.00	.979															
6	1.00	1.00	1.00	1.00	1.00	.975														
7	1.00	1.00	1.00	1.00	1.00	1.00	.969													
8	1.00	1.00	1.00	1.00	1.00	1.00	.978	.963												
9	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.996	.956											
10	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.994	.951										
11	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.992	.944									
12	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.990	.935								
13	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.985	.927							
14	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.981	.917						
15	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.977	.906					
16	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.973	.896				
17	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.869	.885			
18	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.965	.873		
19	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.958	.860	
20	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.998	.952	.846
21	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.998	.996	.946
22	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.998	.996	.994
23	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.996	.994	
24	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.994
25	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
26	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
27	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
28	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
29	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
30	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
31	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
32	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
33	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
34	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
35	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
36	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
37	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
38	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
39	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
40	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00

TOTAL OBSERVATIONS 440

TABLE 9.6 b. P(W < W\*) I LAUNCH OPPORTUNITIES IN J PERIODS (W\* = 35 M/SEC).  
BASED ON MAXIMUM WIND SPEEDS IN THE 10-15 KM LAYER OVER CAPE KENNEDY, FLORIDA.  
PERIOD OF RECORD JANUARY 1956 - DECEMBER 1963.

CAPE KENNEDY, FLORIDA SEPTEMBER  
SPEEDS LESS THAN 040 MPS

PC ( I CONSECUTIVE SUCCESSES IN J PERIODS )

	I																			
J	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
1	1.00																			
2	1.00	1.00																		
3	1.00	1.00	1.00																	
4	1.00	1.00	1.00	1.00																
5	1.00	1.00	1.00	1.00	1.00															
6	1.00	1.00	1.00	1.00	1.00	1.00														
7	1.00	1.00	1.00	1.00	1.00	1.00	.998													
8	1.00	1.00	1.00	1.00	1.00	1.00	.998	.996												
9	1.00	1.00	1.00	1.00	1.00	1.00	.998	.996	.994											
10	1.00	1.00	1.00	1.00	1.00	1.00	.998	.996	.994	.992										
11	1.00	1.00	1.00	1.00	1.00	1.00	.998	.996	.994	.992	.990									
12	1.00	1.00	1.00	1.00	1.00	1.00	.998	.996	.994	.992	.990	.985								
13	1.00	1.00	1.00	1.00	1.00	1.00	.998	.996	.994	.992	.990	.985	.981							
14	1.00	1.00	1.00	1.00	1.00	1.00	.998	.996	.994	.992	.990	.985	.981	.977						
15	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.996	.994	.992	.990	.985	.981	.977	.973					
16	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.998	.994	.992	.990	.985	.981	.977	.973	.969				
17	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.996	.992	.990	.985	.981	.977	.973	.969	.965			
18	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.998	.994	.990	.985	.981	.977	.973	.969	.965	.960		
19	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.996	.992	.988	.983	.981	.977	.973	.969	.965	.960	.956	
20	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.998	.994	.988	.981	.977	.973	.969	.965	.960	.956	.950
21	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.996	.990	.983	.977	.973	.969	.965	.960	.956	.950
22	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.998	.992	.985	.979	.973	.969	.965	.960	.956	.950
23	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.994	.988	.981	.975	.969	.965	.960	.956	.950
24	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.998	.990	.983	.977	.971	.965	.960	.956	.950
25	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.994	.985	.979	.973	.967	.960	.956	.950
26	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.998	.990	.981	.975	.969	.963	.956	.950
27	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.994	.985	.977	.971	.965	.956	.950
28	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.998	.990	.981	.973	.967	.956	.950
29	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.994	.985	.975	.969	.956	.950
30	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.998	.990	.977	.971	.956	.950
31	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.994	.979	.973	.956	.950
32	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.998	.981	.975	.956	.950
33	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.983	.977	.956	.950
34	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.985	.979	.956	.950
35	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.988	.981	.956	.950
36	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.988	.983	.956	.950
37	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.988	.985	.956	.950
38	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.988	.985	.956	.950
39	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.988	.985	.956	.950
40	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.988	.985	.956	.950

TOTAL OBSERVATIONS 480

TABLE 9. 7.a. P(W < W\*) I CONSECUTIVE LAUNCH OPPORTUNITIES IN J PERIODS (W\* = 40 M/SEC).  
BASED ON MAXIMUM WIND SPEEDS IN THE 10-15 KM LAYER OVER CAPE KENNEDY, FLORIDA.  
PERIOD OF RECORD JANUARY 1956 - DECEMBER 1963.

CAPE KENNEDY, FLORIDA SEPTEMBER  
SPEEDS LESS THAN 040 MPS

P ( I SUCCESSES IN J PERIODS )

J	I																			
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
1	1.00																			
2	1.00	1.00																		
3	1.00	1.00	1.00																	
4	1.00	1.00	1.00	1.00																
5	1.00	1.00	1.00	1.00	1.00															
6	1.00	1.00	1.00	1.00	1.00	1.00														
7	1.00	1.00	1.00	1.00	1.00	1.00	.998													
8	1.00	1.00	1.00	1.00	1.00	1.00	.998	.996												
9	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.996	.994											
10	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.994	.992										
11	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.992	.990									
12	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.990	.985								
13	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.988	.981							
14	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.985	.977						
15	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.983	.973					
16	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.981	.969				
17	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.979	.965			
18	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.977	.960		
19	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.975	.956	
20	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.973	.950
21	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.969
22	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
23	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
24	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
25	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
26	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
27	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
28	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
29	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
30	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
31	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
32	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
33	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
34	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
35	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
36	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
37	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
38	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
39	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
40	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00

TOTAL OBSERVATIONS 480

TABLE 9.7.b. P(W < W\*) I LAUNCH OPPORTUNITIES IN J PERIODS (W\* = 40 M/SEC).  
BASED ON MAXIMUM WIND SPEEDS IN THE 10-15 KM LAYER OVER CAPE KENNEDY, FLORIDA.  
PERIOD OF RECORD JANUARY 1956 - DECEMBER 1963.

CAPE KENNEDY, FLORIDA SEPTEMBER  
SPEEDS LESS THAN 045 MPS

PC ( 1 CONSECUTIVE SUCCESSES IN J PERIODS )

	1																				
J	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	
1	1.00																				
2	1.00	1.00																			
3	1.00	1.00	1.00																		
4	1.00	1.00	1.00	1.00																	
5	1.00	1.00	1.00	1.00	1.00																
6	1.00	1.00	1.00	1.00	1.00	1.00															
7	1.00	1.00	1.00	1.00	1.00	1.00	1.00														
8	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.998													
9	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.998	.996												
10	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.998	.996	.994											
11	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.998	.996	.994	.992										
12	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.998	.996	.994	.992	.990									
13	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.998	.996	.994	.992	.990	.988								
14	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.998	.996	.994	.992	.990	.988	.985							
15	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.998	.996	.994	.992	.990	.988	.985	.983						
16	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.996	.994	.992	.990	.988	.985	.983	.981					
17	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.998	.994	.992	.990	.988	.985	.983	.981	.979				
18	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.996	.992	.990	.988	.985	.983	.981	.979	.977			
19	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.998	.994	.990	.988	.985	.983	.981	.979	.977	.975		
20	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.996	.992	.988	.985	.983	.981	.979	.977	.975	.973	
21	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.998	.994	.990	.985	.983	.981	.979	.977	.975	.973	
22	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.996	.992	.988	.983	.981	.979	.977	.975	.973	
23	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.998	.994	.990	.985	.981	.979	.977	.975	.973	
24	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.996	.992	.988	.983	.979	.977	.975	.973	
25	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.998	.994	.990	.985	.981	.977	.975	.973	
26	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.996	.992	.988	.983	.979	.975	.973	
27	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.998	.994	.990	.985	.981	.975	.973	
28	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.996	.992	.988	.983	.975	.973	
29	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.998	.994	.990	.985	.975	.973	
30	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.996	.992	.988	.975	.973	
31	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.998	.994	.990	.975	.973	
32	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.996	.992	.975	.973	
33	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.998	.994	.975	.973	
34	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.996	.975	.973		
35	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.998	.975	.973		
36	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.975	.973	
37	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.975	.973	
38	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.975	.973
39	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.975	.973
40	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.975	.973

TOTAL OBSERVATIONS 480

TABLE 9. 8.a. P(W < W\*) 1 CONSECUTIVE LAUNCH OPPORTUNITIES IN J PERIODS (W\* = 45 M/SEC).  
BASED ON MAXIMUM WIND SPEEDS IN THE 10-15 KM LAYER OVER CAPE KENNEDY, FLORIDA.  
PERIOD OF RECORD JANUARY 1956 - DECEMBER 1963.

CAPE KENNEDY, FLORIDA SEPTEMBER  
SPEEDS LESS THAN 045 MPS

P ( I SUCCESSES IN J PERIODS )

	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
1	1.00																			
2	1.00	1.00																		
3	1.00	1.00	1.00																	
4	1.00	1.00	1.00	1.00																
5	1.00	1.00	1.00	1.00	1.00															
6	1.00	1.00	1.00	1.00	1.00	1.00														
7	1.00	1.00	1.00	1.00	1.00	1.00	1.00													
8	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.998											
9	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.996										
10	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.994									
11	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.992								
12	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.990							
13	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.988						
14	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.985					
15	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.983				
16	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.981			
17	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.979		
18	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.977	
19	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.975
20	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.973
21	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
22	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
23	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
24	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
25	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
26	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
27	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
28	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
29	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
30	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
31	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
32	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
33	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
34	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
35	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
36	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
37	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
38	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
39	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
40	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00

TOTAL OBSERVATIONS 480

TABLE 9. 8.b. P(W < W\*) I LAUNCH OPPORTUNITIES IN J PERIODS (W\* = 45 M/SEC).  
BASED ON MAXIMUM WIND SPEEDS IN THE 10-15 KM LAYER OVER CAPE KENNEDY, FLORIDA.  
PERIOD OF RECORD JANUARY 1956 - DECEMBER 1963.

CAPE KENNEDY, FLORIDA OCTOBER  
SPEEDS LESS THAN 010 MPS

PC ( I CONSECUTIVE SUCCESSES IN J PERIODS )

	I																			
J	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
1	.040																			
2	.065	.012																		
3	.093	.020	.004																	
4	.097	.028	.008	.000																
5	.111	.034	.012	.000	.000															
6	.121	.042	.016	.000	.000	.000														
7	.131	.048	.020	.000	.000	.000	.000													
8	.141	.054	.024	.000	.000	.000	.000	.000												
9	.151	.060	.028	.000	.000	.000	.000	.000	.000											
10	.163	.067	.032	.000	.000	.000	.000	.000	.000	.000										
11	.175	.073	.036	.000	.000	.000	.000	.000	.000	.000	.000									
12	.188	.079	.040	.000	.000	.000	.000	.000	.000	.000	.000	.000								
13	.198	.085	.044	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000							
14	.208	.091	.048	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000						
15	.218	.097	.052	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000					
16	.226	.103	.056	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000				
17	.232	.109	.060	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000			
18	.238	.115	.065	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000		
19	.244	.121	.069	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	
20	.250	.125	.073	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
21	.256	.129	.077	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
22	.262	.131	.081	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
23	.268	.133	.083	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
24	.274	.135	.085	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
25	.280	.135	.085	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
26	.286	.135	.085	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
27	.292	.135	.085	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
28	.298	.135	.085	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
29	.304	.135	.085	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
30	.310	.135	.085	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
31	.317	.135	.085	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
32	.323	.135	.085	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
33	.329	.135	.085	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
34	.335	.135	.085	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
35	.341	.135	.085	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
36	.347	.135	.085	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
37	.353	.135	.085	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
38	.359	.135	.085	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
39	.363	.135	.085	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
40	.367	.135	.085	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000

TOTAL OBSERVATIONS 496

TABLE 10. 1.a. P(W < W\*) I CONSECUTIVE LAUNCH OPPORTUNITIES IN J PERIODS (W\* = 10 M/SEC).

BASED ON MAXIMUM WIND SPEEDS IN THE 10-15 KM LAYER OVER CAPE KENNEDY, FLORIDA.

PERIOD OF RECORD JANUARY 1956 - DECEMBER 1963.

CAPE KENNEDY, FLORIDA OCTOBER  
SPEEDS LESS THAN 010 MPS

P ( I SUCCESSES IN J PERIODS )

J	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
1	.040																			
2	.065	.012																		
3	.083	.024	.004																	
4	.097	.038	.008	.000																
5	.111	.044	.018	.000	.000															
6	.121	.058	.022	.006	.000	.000														
7	.131	.069	.028	.010	.002	.000	.000													
8	.141	.079	.034	.014	.004	.000	.000	.000												
9	.151	.087	.042	.018	.006	.000	.000	.000	.000											
10	.163	.095	.048	.024	.008	.000	.000	.000	.000	.000										
11	.175	.103	.054	.028	.012	.000	.000	.000	.000	.000	.000									
12	.188	.111	.060	.032	.016	.000	.000	.000	.000	.000	.000	.000								
13	.198	.119	.067	.036	.020	.000	.000	.000	.000	.000	.000	.000	.000							
14	.208	.127	.073	.040	.024	.000	.000	.000	.000	.000	.000	.000	.000	.000						
15	.218	.135	.079	.044	.028	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000					
16	.226	.145	.085	.048	.032	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000				
17	.232	.155	.093	.052	.036	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000			
18	.238	.161	.103	.056	.040	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000		
19	.244	.165	.109	.063	.044	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	
20	.250	.169	.113	.069	.048	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
21	.256	.173	.115	.073	.054	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
22	.262	.175	.119	.073	.060	.002	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
23	.268	.177	.121	.075	.060	.006	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
24	.274	.179	.121	.077	.060	.006	.002	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
25	.280	.181	.121	.077	.060	.006	.002	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
26	.286	.183	.121	.077	.060	.006	.002	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
27	.292	.185	.121	.077	.060	.006	.002	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
28	.298	.188	.121	.077	.060	.006	.002	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
29	.304	.190	.121	.077	.060	.006	.002	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
30	.310	.192	.121	.077	.060	.006	.002	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
31	.317	.194	.121	.077	.060	.006	.002	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
32	.323	.196	.121	.077	.060	.006	.002	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
33	.329	.198	.121	.077	.060	.006	.002	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
34	.335	.200	.121	.077	.060	.006	.002	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
35	.341	.202	.121	.077	.060	.006	.002	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
36	.347	.204	.121	.077	.060	.006	.002	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
37	.353	.206	.121	.077	.060	.006	.002	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
38	.359	.208	.121	.077	.060	.006	.002	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
39	.363	.210	.121	.077	.060	.006	.002	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
40	.367	.212	.121	.077	.060	.006	.002	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000

TOTAL OBSERVATIONS 496

TABLE 10. 1. b. P(W < W\*) I LAUNCH OPPORTUNITIES IN J PERIODS (W\* = 10 M/SEC).  
BASED ON MAXIMUM WIND SPEEDS IN THE 10-15 KM LAYER OVER CAPE KENNEDY, FLORIDA.  
PERIOD OF RECORD JANUARY 1956 - DECEMBER 1963.



CAPE KENNEDY, FLORIDA OCTOBER  
 SPFFDS LESS THAN 015 MPS

PC ( I CONSECUTIVE SUCCESSES IN J PERIODS )

	I																			
J	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
1	.137																			
2	.179	.087																		
3	.212	.103	.065																	
4	.240	.121	.079	.044																
5	.264	.135	.093	.052	.032															
6	.286	.149	.105	.060	.040	.020														
7	.304	.161	.115	.067	.048	.028	.008													
8	.323	.173	.125	.073	.054	.036	.014	.002												
9	.341	.185	.135	.079	.060	.042	.020	.004	.000											
10	.359	.198	.145	.085	.067	.048	.026	.006	.000	.000										
11	.373	.212	.155	.091	.073	.054	.032	.008	.000	.000	.000									
12	.387	.226	.167	.097	.079	.060	.038	.010	.000	.000	.000	.000								
13	.401	.238	.179	.103	.085	.067	.044	.012	.000	.000	.000	.000	.000							
14	.415	.248	.192	.109	.091	.073	.050	.014	.000	.000	.000	.000	.000	.000						
15	.427	.256	.204	.115	.097	.079	.056	.016	.000	.000	.000	.000	.000	.000	.000					
16	.440	.264	.214	.121	.103	.085	.063	.018	.000	.000	.000	.000	.000	.000	.000	.000				
17	.452	.272	.222	.127	.109	.091	.069	.020	.000	.000	.000	.000	.000	.000	.000	.000	.000			
18	.462	.280	.230	.131	.115	.097	.075	.022	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000		
19	.472	.288	.238	.133	.121	.103	.081	.024	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	
20	.482	.296	.244	.135	.125	.109	.087	.026	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
21	.492	.304	.250	.137	.127	.115	.093	.028	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
22	.502	.313	.256	.139	.129	.119	.099	.030	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
23	.512	.321	.262	.141	.131	.121	.105	.032	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
24	.522	.329	.268	.143	.133	.123	.109	.034	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
25	.532	.337	.274	.145	.135	.125	.111	.034	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
26	.544	.345	.280	.145	.137	.127	.113	.034	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
27	.556	.353	.286	.145	.137	.129	.115	.034	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
28	.569	.361	.292	.145	.137	.129	.117	.034	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
29	.579	.369	.298	.145	.137	.129	.117	.034	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
30	.589	.379	.304	.145	.137	.129	.117	.034	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
31	.599	.389	.310	.145	.137	.129	.117	.034	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
32	.607	.397	.317	.145	.137	.129	.117	.034	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
33	.617	.405	.323	.145	.137	.129	.117	.034	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
34	.627	.415	.327	.145	.137	.129	.117	.034	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
35	.637	.425	.331	.145	.137	.129	.117	.034	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
36	.647	.435	.335	.145	.137	.129	.117	.034	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
37	.657	.446	.339	.145	.137	.129	.117	.034	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
38	.665	.456	.343	.145	.137	.129	.117	.034	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
39	.673	.464	.347	.145	.137	.129	.117	.034	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
40	.681	.472	.349	.145	.137	.129	.117	.034	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
TOTAL OBSERVATIONS 496																				

TABLE 10. 2.a. P(W < W\*) I CONSECUTIVE LAUNCH OPPORTUNITIES IN J PERIODS (W\* = 15 M/SEC).  
 BASED ON MAXIMUM WIND SPEEDS IN THE 10-15 KM LAYER OVER CAPE KENNEDY, FLORIDA.  
 PERIOD OF RECORD JANUARY 1956 - DECEMBER 1963.

CAPE KENNEDY, FLORIDA OCTOBER  
SPEEDS LESS THAN 015 MPS

P ( I SUCCESSES IN J PERIODS )

	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
1	.137																			
2	.179	.087																		
3	.212	.115	.065																	
4	.240	.135	.089	.044																
5	.264	.157	.103	.063	.032															
6	.286	.175	.121	.073	.046	.020														
7	.304	.194	.137	.087	.054	.032	.008													
8	.323	.208	.153	.099	.067	.040	.016	.002												
9	.341	.220	.167	.111	.077	.052	.022	.004	.000											
10	.359	.234	.179	.123	.085	.063	.034	.006	.000	.000										
11	.373	.252	.194	.133	.093	.071	.044	.012	.000	.000	.000									
12	.387	.264	.212	.147	.101	.077	.052	.020	.002	.000	.000	.000								
13	.401	.274	.226	.161	.115	.083	.058	.026	.006	.000	.000	.000	.000							
14	.415	.282	.236	.175	.125	.097	.065	.030	.012	.000	.000	.000	.000	.000						
15	.427	.292	.246	.181	.141	.103	.081	.034	.016	.002	.000	.000	.000	.000	.000					
16	.440	.302	.254	.190	.145	.119	.089	.048	.020	.004	.000	.000	.000	.000	.000	.000				
17	.452	.313	.262	.194	.153	.121	.099	.052	.036	.006	.000	.000	.000	.000	.000	.000	.000			
18	.462	.325	.270	.198	.155	.129	.111	.071	.038	.020	.000	.000	.000	.000	.000	.000	.000	.000		
19	.472	.335	.280	.202	.157	.131	.119	.073	.052	.020	.012	.000	.000	.000	.000	.000	.000	.000	.000	
20	.482	.345	.288	.208	.159	.131	.123	.081	.054	.030	.012	.010	.000	.000	.000	.000	.000	.000	.000	.000
21	.492	.353	.298	.212	.163	.131	.123	.087	.063	.030	.020	.010	.008	.000	.000	.000	.000	.000	.000	.000
22	.502	.361	.306	.218	.165	.133	.123	.087	.071	.036	.020	.016	.008	.006	.000	.000	.000	.000	.000	.000
23	.512	.369	.315	.222	.169	.133	.125	.087	.071	.044	.024	.016	.012	.006	.004	.000	.000	.000	.000	.000
24	.522	.375	.325	.226	.173	.133	.125	.089	.071	.044	.032	.018	.012	.008	.004	.002	.000	.000	.000	.000
25	.532	.381	.333	.232	.177	.133	.125	.091	.071	.044	.032	.026	.012	.008	.004	.002	.000	.000	.000	.000
26	.544	.387	.341	.236	.183	.133	.125	.093	.071	.044	.032	.026	.018	.008	.004	.002	.000	.000	.000	.000
27	.556	.393	.349	.240	.188	.135	.125	.095	.071	.044	.032	.026	.018	.012	.004	.002	.000	.000	.000	.000
28	.569	.399	.357	.244	.192	.135	.127	.097	.071	.044	.032	.026	.018	.012	.006	.002	.000	.000	.000	.000
29	.579	.409	.365	.248	.196	.135	.127	.101	.071	.044	.032	.026	.018	.012	.006	.002	.000	.000	.000	.000
30	.589	.419	.373	.254	.200	.135	.127	.105	.071	.044	.032	.026	.018	.012	.006	.002	.000	.000	.000	.000
31	.599	.427	.383	.256	.208	.135	.127	.109	.071	.044	.032	.026	.018	.012	.006	.002	.000	.000	.000	.000
32	.607	.438	.391	.258	.210	.141	.127	.111	.071	.044	.032	.026	.018	.012	.006	.002	.000	.000	.000	.000
33	.617	.448	.399	.260	.212	.141	.133	.113	.071	.044	.032	.026	.018	.012	.006	.002	.000	.000	.000	.000
34	.627	.458	.409	.262	.214	.141	.133	.119	.073	.044	.032	.026	.018	.012	.006	.002	.000	.000	.000	.000
35	.637	.468	.417	.266	.216	.141	.133	.119	.081	.044	.032	.026	.018	.012	.006	.002	.000	.000	.000	.000
36	.647	.478	.425	.270	.218	.141	.133	.119	.083	.050	.032	.026	.018	.012	.006	.002	.000	.000	.000	.000
37	.657	.488	.433	.274	.220	.141	.133	.119	.085	.052	.034	.026	.018	.012	.006	.002	.000	.000	.000	.000
38	.665	.498	.442	.278	.222	.141	.133	.119	.085	.054	.038	.028	.018	.012	.006	.002	.000	.000	.000	.000
39	.673	.506	.450	.284	.224	.141	.133	.119	.085	.054	.040	.028	.020	.012	.006	.002	.000	.000	.000	.000
40	.681	.514	.456	.290	.226	.141	.133	.119	.085	.054	.040	.028	.020	.014	.006	.002	.000	.000	.000	.000

TOTAL OBSERVATIONS 496

TABLE 10. 2-b. P(W < W\*) I LAUNCH OPPORTUNITIES IN J PERIODS (W\* = 15 M/SEC).  
BASED ON MAXIMUM WIND SPEEDS IN THE 10-15 KM LAYER OVER CAPE KENNEDY, FLORIDA.  
PERIOD OF RECORD JANUARY 1956 - DECEMBER 1963.

CAPE KENNEDY, FLORIDA OCTOBER  
SPEEDS LESS THAN 200 MPH

PC ( I CONSECUTIVE SUCCESSES IN J PERIODS )

	I																			
J	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
1	.276																			
2	.367	.196																		
3	.395	.234	.151																	
4	.429	.270	.183	.113																
5	.452	.298	.214	.133	.085															
6	.472	.321	.244	.151	.101	.060														
7	.490	.337	.268	.169	.115	.073	.040													
8	.506	.353	.288	.188	.129	.083	.050	.022												
9	.524	.369	.304	.204	.143	.093	.058	.032	.010											
10	.540	.387	.321	.220	.157	.103	.067	.040	.016	.004										
11	.556	.403	.339	.234	.169	.113	.075	.049	.020	.006	.002									
12	.573	.415	.357	.250	.181	.123	.083	.056	.024	.008	.004	.000								
13	.585	.427	.371	.266	.194	.133	.091	.065	.028	.010	.006	.000	.000							
14	.597	.440	.381	.280	.206	.145	.099	.073	.032	.012	.008	.000	.000	.000						
15	.609	.452	.391	.292	.216	.157	.107	.081	.036	.014	.010	.000	.000	.000	.000					
16	.621	.462	.401	.302	.226	.167	.115	.089	.040	.016	.012	.000	.000	.000	.000	.000				
17	.631	.472	.411	.313	.234	.177	.123	.097	.044	.018	.014	.000	.000	.000	.000	.000	.000			
18	.641	.482	.419	.323	.240	.188	.131	.105	.048	.020	.016	.000	.000	.000	.000	.000	.000	.000		
19	.649	.492	.427	.333	.246	.196	.139	.113	.052	.022	.018	.000	.000	.000	.000	.000	.000	.000	.000	
20	.657	.502	.435	.343	.252	.202	.147	.121	.056	.024	.020	.000	.000	.000	.000	.000	.000	.000	.000	.000
21	.665	.510	.444	.353	.258	.208	.153	.129	.060	.026	.022	.000	.000	.000	.000	.000	.000	.000	.000	.000
22	.673	.518	.452	.361	.264	.214	.157	.137	.065	.028	.024	.000	.000	.000	.000	.000	.000	.000	.000	.000
23	.681	.526	.460	.369	.270	.220	.161	.143	.069	.030	.026	.000	.000	.000	.000	.000	.000	.000	.000	.000
24	.690	.534	.468	.377	.274	.226	.165	.147	.071	.032	.028	.000	.000	.000	.000	.000	.000	.000	.000	.000
25	.698	.544	.476	.385	.278	.232	.169	.151	.073	.032	.030	.000	.000	.000	.000	.000	.000	.000	.000	.000
26	.706	.554	.486	.393	.282	.236	.173	.155	.073	.037	.030	.000	.000	.000	.000	.000	.000	.000	.000	.00
27	.712	.565	.496	.403	.286	.240	.177	.159	.073	.032	.030	.000	.000	.000	.000	.000	.000	.000	.000	.000
28	.718	.573	.504	.413	.292	.244	.179	.163	.073	.032	.030	.000	.000	.000	.000	.000	.000	.000	.000	.000
29	.724	.581	.512	.423	.298	.250	.181	.167	.073	.032	.030	.000	.000	.000	.000	.000	.000	.000	.000	.000
30	.732	.589	.518	.433	.304	.256	.185	.169	.073	.037	.030	.000	.000	.000	.000	.000	.000	.000	.000	.000
31	.740	.597	.524	.444	.310	.262	.190	.173	.073	.032	.030	.000	.000	.000	.000	.000	.000	.000	.000	.000
32	.748	.605	.530	.454	.317	.268	.194	.177	.075	.032	.030	.000	.000	.000	.000	.000	.000	.000	.000	.000
33	.756	.613	.536	.462	.323	.274	.198	.181	.077	.034	.030	.000	.000	.000	.000	.000	.000	.000	.000	.000
34	.766	.623	.542	.470	.329	.280	.202	.185	.079	.036	.032	.000	.000	.000	.000	.000	.000	.000	.000	.000
35	.774	.633	.550	.478	.335	.286	.206	.190	.081	.038	.034	.002	.000	.000	.000	.000	.000	.000	.000	.000
36	.782	.643	.558	.486	.341	.292	.210	.194	.083	.040	.036	.004	.002	.000	.000	.000	.000	.000	.000	.000
37	.790	.653	.567	.494	.347	.298	.214	.198	.085	.042	.038	.006	.004	.002	.000	.000	.000	.000	.000	.000
38	.798	.663	.575	.502	.353	.304	.218	.202	.087	.044	.040	.008	.006	.004	.002	.000	.000	.000	.000	.000
39	.806	.673	.581	.510	.359	.310	.222	.206	.089	.046	.042	.010	.008	.006	.004	.002	.000	.000	.000	.000
40	.815	.681	.587	.516	.365	.317	.226	.210	.091	.048	.044	.012	.010	.008	.006	.004	.002	.000	.000	.000

TOTAL OBSERVATIONS 496

TABLE 10. 3. a. P(N < M) I CONSECUTIVE LAUNCH OPPORTUNITIES IN J PERIODS (M = 20 M/SEC).  
BASED ON MAXIMUM WIND SPEEDS IN THE 10-15 KM LAYER OVER CAPE KENNEDY, FLORIDA.  
PERIOD OF RECORD JANUARY 1956 - DECEMBER 1963.

CAPE KENNEDY, FLORIDA OCTOBER

SPEEDS LESS THAN 20 MPS

P ( I SUCCESSFUL J PERIODS )

	I																			
J	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
1	.276																			
2	.347	.196																		
3	.395	.254	.151																	
4	.429	.302	.204	.113																
5	.442	.341	.250	.157	.085															
6	.472	.359	.290	.206	.121	.060														
7	.490	.377	.308	.257	.163	.093	.040													
8	.506	.393	.329	.264	.210	.129	.069	.022												
9	.524	.409	.343	.288	.230	.177	.095	.050	.010											
10	.540	.427	.357	.304	.250	.202	.137	.073	.034	.004										
11	.556	.442	.375	.319	.266	.226	.167	.111	.052	.022	.002									
12	.573	.454	.389	.337	.278	.244	.183	.129	.085	.040	.014	.000								
13	.585	.470	.399	.355	.298	.254	.207	.159	.097	.067	.030	.006	.000							
14	.597	.482	.413	.369	.315	.272	.210	.179	.127	.077	.052	.018	.002	.000						
15	.609	.494	.427	.379	.331	.286	.224	.188	.147	.107	.063	.035	.010	.000	.000					
16	.621	.506	.440	.389	.341	.304	.234	.202	.153	.129	.089	.044	.026	.004	.000	.000				
17	.631	.520	.452	.397	.347	.321	.248	.212	.163	.135	.111	.069	.034	.014	.002	.000	.000			
18	.641	.532	.464	.407	.353	.329	.266	.224	.171	.143	.115	.087	.060	.020	.008	.000	.000	.000		
19	.649	.544	.476	.417	.361	.335	.274	.248	.179	.149	.119	.089	.079	.044	.012	.002	.000	.000	.000	.000
20	.657	.556	.484	.429	.369	.343	.278	.258	.206	.155	.123	.091	.081	.063	.034	.004	.000	.000	.0	.000
21	.665	.569	.492	.438	.379	.351	.284	.262	.218	.151	.127	.093	.083	.067	.040	.022	.000	.000	.000	.000
22	.673	.581	.500	.446	.387	.359	.290	.268	.222	.196	.151	.095	.085	.071	.054	.036	.012	.000	.000	.000
23	.681	.591	.510	.444	.395	.367	.294	.274	.226	.204	.165	.113	.087	.073	.060	.039	.024	.006	.000	.000
24	.690	.603	.520	.460	.405	.375	.298	.278	.230	.210	.175	.123	.103	.075	.063	.044	.028	.012	.004	.000
25	.698	.615	.532	.466	.411	.387	.302	.282	.232	.214	.181	.133	.111	.089	.065	.044	.036	.016	.006	.002
26	.706	.625	.546	.474	.417	.393	.313	.286	.234	.218	.183	.141	.119	.097	.077	.044	.036	.028	.006	.002
27	.712	.637	.556	.488	.423	.399	.317	.296	.236	.220	.188	.143	.129	.103	.085	.052	.036	.028	.018	.002
28	.718	.649	.567	.496	.438	.405	.323	.300	.244	.227	.192	.145	.133	.113	.089	.058	.042	.028	.020	.012
29	.724	.659	.579	.504	.440	.417	.329	.304	.246	.230	.194	.149	.135	.110	.099	.058	.050	.030	.022	.012
30	.732	.669	.591	.512	.442	.427	.339	.308	.248	.232	.202	.153	.137	.121	.105	.067	.050	.036	.022	.014
31	.740	.675	.607	.520	.472	.440	.349	.315	.250	.234	.204	.161	.139	.123	.107	.071	.058	.038	.026	.014
32	.748	.681	.617	.530	.482	.450	.363	.321	.254	.236	.206	.165	.143	.125	.109	.073	.060	.046	.028	.013
33	.756	.690	.625	.540	.494	.458	.373	.333	.258	.240	.208	.169	.145	.127	.111	.073	.065	.046	.026	.018
34	.766	.698	.635	.546	.504	.470	.381	.343	.268	.244	.212	.171	.149	.129	.113	.073	.065	.050	.036	.026
35	.774	.708	.643	.556	.512	.478	.393	.353	.276	.252	.216	.175	.151	.133	.115	.073	.065	.050	.040	.026
36	.782	.716	.653	.563	.524	.486	.401	.365	.286	.258	.222	.179	.155	.135	.119	.073	.065	.050	.040	.030
37	.790	.726	.661	.571	.532	.496	.409	.375	.298	.264	.228	.183	.159	.139	.121	.075	.065	.050	.040	.030
38	.798	.734	.673	.577	.540	.504	.419	.385	.308	.272	.234	.188	.163	.143	.125	.075	.067	.050	.040	.030
39	.806	.742	.681	.587	.546	.512	.425	.395	.321	.278	.242	.192	.167	.147	.129	.077	.067	.052	.040	.030
40	.815	.750	.690	.591	.558	.520	.433	.401	.333	.284	.250	.196	.171	.151	.133	.079	.069	.052	.042	.030

TOTAL OBSERVATIONS 496

TABLE 10. S.D. P(W < W\*) I LAUNCH OPPORTUNITIES IN J PERIODS (W\* = 20 M/SEC).  
 BASED ON MAXIMUM WIND SPEEDS IN THE 10-15 KM LAYER OVER CAPE KENNEDY, FLORIDA.  
 PERIOD OF RECORD JANUARY 1956 - DECEMBER 1963.

CAPE KENNEDY, FLORIDA OCTOBER

SPEEDS LESS THAN 025 MPS

PC ( I CONSECUTIVE SUCCESSES IN J PERIODS )

J	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
1	.448																			
2	.522	.363																		
3	.573	.409	.306																	
4	.611	.454	.339	.264																
5	.637	.486	.369	.272	.226															
6	.661	.514	.399	.319	.248	.192														
7	.685	.540	.425	.345	.268	.214	.169													
8	.708	.565	.450	.371	.288	.234	.173	.135												
9	.726	.585	.470	.393	.308	.254	.185	.149	.113											
10	.746	.603	.486	.413	.329	.274	.196	.161	.125	.095										
11	.766	.619	.502	.429	.345	.294	.210	.173	.135	.107	.081									
12	.784	.635	.520	.442	.359	.315	.222	.185	.145	.117	.093	.067								
13	.802	.649	.534	.456	.369	.331	.234	.198	.155	.127	.103	.077	.054							
14	.819	.663	.548	.470	.381	.345	.246	.210	.165	.137	.113	.085	.065	.044						
15	.831	.677	.560	.480	.393	.357	.256	.222	.175	.147	.123	.093	.073	.052	.036					
16	.843	.690	.573	.490	.405	.369	.264	.232	.185	.157	.133	.101	.081	.058	.042	.030				
17	.849	.698	.585	.498	.415	.381	.270	.240	.196	.167	.143	.109	.089	.065	.046	.036	.024			
18	.855	.706	.593	.506	.425	.393	.276	.246	.206	.177	.153	.117	.097	.071	.050	.040	.030	.018		
19	.859	.712	.599	.514	.433	.403	.282	.250	.214	.188	.163	.125	.105	.077	.054	.044	.034	.024	.012	
20	.863	.718	.605	.522	.442	.413	.288	.254	.220	.198	.173	.133	.113	.083	.058	.048	.038	.028	.016	.008
21	.867	.722	.611	.530	.450	.421	.292	.258	.224	.206	.183	.141	.121	.089	.063	.052	.042	.032	.020	.010
22	.871	.726	.617	.538	.458	.429	.296	.262	.228	.212	.194	.149	.129	.095	.067	.056	.046	.036	.024	.012
23	.877	.730	.623	.546	.466	.438	.300	.264	.232	.216	.202	.157	.137	.101	.071	.060	.050	.040	.028	.014
24	.883	.736	.629	.554	.474	.446	.304	.266	.236	.220	.206	.165	.145	.107	.075	.065	.054	.044	.032	.016
25	.889	.742	.637	.563	.482	.454	.308	.268	.238	.224	.210	.169	.153	.113	.079	.069	.058	.048	.036	.018
26	.895	.748	.643	.573	.490	.462	.313	.270	.240	.226	.214	.173	.159	.119	.083	.073	.063	.052	.040	.020
27	.899	.754	.649	.583	.500	.470	.317	.272	.242	.228	.216	.177	.163	.125	.087	.077	.067	.056	.044	.022
28	.903	.760	.655	.591	.510	.480	.321	.274	.244	.230	.218	.179	.167	.131	.091	.081	.071	.060	.048	.024
29	.909	.766	.661	.599	.520	.490	.327	.276	.246	.232	.220	.181	.169	.135	.095	.085	.075	.065	.052	.026
30	.913	.774	.665	.607	.528	.500	.333	.280	.248	.234	.222	.183	.171	.137	.099	.089	.079	.069	.056	.028
31	.917	.782	.669	.615	.536	.510	.339	.284	.252	.236	.224	.185	.173	.139	.101	.093	.083	.073	.060	.030
32	.921	.790	.673	.621	.544	.518	.345	.288	.256	.240	.226	.188	.175	.141	.103	.097	.087	.077	.065	.032
33	.925	.798	.677	.627	.552	.526	.351	.292	.260	.244	.230	.190	.177	.143	.105	.099	.091	.081	.069	.034
34	.929	.806	.681	.633	.560	.534	.355	.296	.264	.248	.234	.194	.179	.145	.107	.101	.095	.085	.073	.036
35	.933	.813	.698	.649	.569	.542	.359	.300	.268	.252	.238	.198	.183	.147	.109	.103	.097	.089	.077	.038
36	.938	.819	.694	.643	.577	.550	.363	.302	.272	.256	.242	.202	.188	.151	.111	.105	.099	.093	.081	.040
37	.942	.825	.700	.647	.585	.558	.367	.304	.274	.260	.246	.206	.192	.155	.115	.107	.101	.095	.085	.042
38	.946	.831	.708	.651	.593	.567	.371	.306	.276	.262	.250	.210	.196	.159	.119	.111	.103	.097	.089	.044
39	.948	.837	.714	.655	.601	.575	.375	.308	.278	.264	.252	.214	.200	.163	.123	.115	.107	.099	.093	.046
40	.950	.843	.724	.659	.609	.583	.379	.310	.280	.266	.254	.216	.204	.167	.127	.119	.111	.103	.095	.048

TOTAL OBSERVATIONS 496

TABLE 10. 4. a.  $P(W < W^*)$  I CONSECUTIVE LAUNCH OPPORTUNITIES IN J PERIODS ( $W^* = 25$  M/SEC).  
 BASED ON MAXIMUM WIND SPEEDS IN THE 10-15 KM LAYER OVER CAPE KENNEDY, FLORIDA.  
 PERIOD OF RECORD JANUARY 1956 - DECEMBER 1963.

CAPE KENNEDY, FLORIDA OCTOBER

SPEFOS LESS THAN 025 MPS

P ( I SUCCESSES IN J PERIODS )

J	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	
1	.448																				
2	.522	.363																			
3	.573	.433	.306																		
4	.611	.480	.373	.264																	
5	.637	.524	.417	.327	.226																
6	.561	.552	.460	.371	.284	.192															
7	.685	.575	.494	.411	.323	.252	.159														
8	.708	.597	.514	.448	.357	.294	.214	.135													
9	.726	.623	.530	.470	.389	.329	.256	.185	.113												
10	.746	.639	.556	.484	.411	.357	.294	.228	.157	.095											
11	.766	.655	.573	.508	.427	.379	.321	.266	.200	.135	.081										
12	.784	.673	.587	.520	.456	.395	.347	.286	.240	.175	.119	.067									
13	.802	.690	.603	.530	.470	.423	.365	.310	.256	.216	.161	.101	.054								
14	.819	.706	.619	.542	.480	.438	.395	.333	.276	.228	.200	.143	.089	.044							
15	.831	.726	.631	.556	.492	.446	.411	.363	.302	.246	.208	.181	.127	.079	.036						
16	.843	.738	.651	.565	.508	.456	.417	.379	.333	.270	.224	.192	.161	.111	.071	.030					
17	.849	.756	.661	.583	.518	.470	.425	.387	.347	.302	.242	.210	.169	.141	.097	.067	.024				
18	.855	.766	.679	.591	.538	.478	.440	.395	.357	.315	.268	.226	.188	.149	.121	.089	.063	.018			
19	.859	.778	.692	.605	.550	.494	.446	.411	.365	.327	.276	.250	.202	.167	.127	.109	.083	.058	.012		
20	.863	.784	.710	.613	.569	.506	.456	.419	.381	.333	.290	.254	.226	.179	.143	.115	.099	.077	.052	.008	
21	.867	.788	.722	.627	.583	.524	.464	.427	.393	.344	.300	.262	.230	.204	.151	.131	.105	.089	.071	.046	
22	.871	.792	.728	.641	.601	.538	.478	.433	.403	.357	.313	.270	.236	.208	.173	.139	.119	.093	.081	.063	
23	.877	.796	.732	.649	.617	.560	.488	.446	.411	.367	.325	.278	.246	.212	.177	.159	.125	.109	.083	.073	
24	.883	.802	.734	.655	.629	.577	.510	.454	.423	.377	.337	.284	.254	.222	.181	.163	.141	.115	.097	.075	
25	.889	.808	.738	.659	.639	.587	.526	.478	.429	.393	.347	.290	.258	.230	.192	.167	.143	.129	.101	.089	
26	.895	.815	.742	.663	.645	.599	.532	.500	.452	.401	.363	.298	.262	.234	.200	.177	.145	.131	.113	.093	
27	.899	.823	.746	.667	.649	.607	.542	.510	.478	.421	.373	.313	.268	.238	.204	.185	.153	.133	.115	.101	
28	.903	.829	.752	.671	.653	.613	.552	.522	.488	.457	.393	.321	.282	.242	.208	.190	.159	.141	.117	.103	
29	.909	.835	.756	.677	.657	.617	.560	.534	.502	.462	.423	.339	.292	.252	.212	.194	.161	.147	.125	.105	
30	.913	.845	.760	.681	.663	.621	.567	.540	.518	.476	.433	.367	.313	.260	.220	.198	.163	.149	.131	.113	
31	.917	.853	.768	.685	.667	.627	.571	.548	.522	.496	.450	.373	.341	.280	.230	.202	.165	.151	.135	.117	
32	.921	.861	.776	.690	.671	.631	.577	.552	.530	.502	.474	.385	.347	.310	.250	.206	.167	.153	.139	.121	
33	.925	.867	.788	.694	.675	.635	.583	.556	.534	.512	.482	.409	.357	.317	.282	.222	.169	.155	.141	.127	
34	.929	.873	.796	.706	.679	.639	.589	.560	.538	.518	.494	.425	.375	.323	.290	.252	.181	.157	.143	.129	
35	.933	.879	.804	.714	.690	.643	.593	.567	.542	.522	.502	.446	.391	.335	.296	.260	.208	.167	.145	.131	
36	.938	.885	.813	.724	.698	.649	.597	.571	.548	.526	.506	.462	.411	.347	.308	.266	.214	.192	.153	.133	
37	.942	.891	.821	.734	.706	.657	.601	.573	.554	.532	.510	.472	.429	.361	.325	.274	.218	.198	.175	.141	
38	.946	.897	.829	.744	.714	.665	.607	.575	.556	.540	.516	.478	.442	.377	.337	.290	.224	.202	.181	.161	
39	.948	.905	.837	.754	.722	.673	.613	.577	.558	.542	.526	.486	.450	.339	.351	.302	.238	.208	.185	.163	
40	.950	.911	.847	.766	.730	.681	.619	.581	.560	.544	.528	.500	.460	.395	.363	.317	.252	.218	.192	.165	

TOTAL OBSERVATIONS 496

TABLE 10.4.b. P(W < W\*) I LAUNCH OPPORTUNITIES IN J PERIODS (W\* = 25 M/SEC).  
 BASED ON MAXIMUM WIND SPEEDS IN THE 10-15 KM LAYER OVER CAPE KENNEDY, FLORIDA.  
 PERIOD OF RECORD JANUARY 1956 - DECEMBER 1963.

CAPE KENNEDY, FLORIDA OCTOBER  
SPEEDS LESS THAN 030 MPS

PC ( I CONSECUTIVE SUCCESSES IN J PERIODS )

	I																			
J	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
1	.601																			
2	.683	.512																		
3	.740	.575	.442																	
4	.780	.637	.486	.387																
5	.815	.681	.530	.419	.343															
6	.841	.714	.575	.452	.369	.304														
7	.865	.744	.605	.484	.395	.327	.270													
8	.887	.772	.627	.514	.421	.349	.292	.236												
9	.905	.800	.651	.534	.446	.371	.315	.252	.208											
10	.917	.825	.673	.550	.470	.391	.337	.268	.224	.179										
11	.929	.845	.696	.565	.490	.411	.357	.284	.240	.196	.153									
12	.940	.861	.718	.577	.504	.435	.377	.298	.256	.212	.169	.127								
13	.950	.877	.736	.589	.516	.452	.401	.313	.270	.228	.185	.143	.101							
14	.956	.893	.750	.601	.526	.464	.425	.331	.284	.242	.202	.159	.117	.081						
15	.960	.909	.762	.613	.536	.474	.440	.349	.302	.256	.216	.175	.133	.093	.065					
16	.962	.919	.774	.625	.546	.484	.452	.365	.321	.272	.230	.190	.149	.105	.073	.052				
17	.964	.925	.786	.637	.554	.494	.462	.377	.337	.288	.244	.204	.163	.117	.081	.060	.042			
18	.966	.929	.792	.649	.563	.504	.472	.387	.353	.302	.258	.218	.177	.127	.089	.069	.046	.036		
19	.968	.933	.796	.661	.571	.512	.482	.395	.365	.317	.270	.232	.192	.137	.095	.077	.050	.040	.030	
20	.968	.938	.800	.669	.579	.520	.492	.403	.375	.331	.282	.244	.206	.147	.101	.083	.054	.044	.034	.024
21	.968	.942	.804	.677	.587	.528	.500	.411	.383	.341	.294	.256	.218	.157	.107	.089	.058	.048	.038	.028
22	.970	.944	.808	.685	.591	.536	.508	.419	.391	.349	.306	.268	.230	.167	.113	.095	.063	.052	.042	.032
23	.972	.948	.813	.694	.595	.544	.516	.425	.399	.355	.315	.280	.242	.177	.119	.101	.067	.056	.046	.036
24	.974	.952	.819	.702	.599	.550	.524	.431	.407	.361	.319	.292	.254	.188	.125	.107	.071	.060	.050	.040
25	.976	.956	.825	.708	.603	.556	.532	.438	.413	.367	.323	.298	.266	.198	.131	.113	.075	.065	.054	.044
26	.978	.960	.831	.714	.609	.563	.538	.444	.419	.373	.327	.302	.276	.208	.137	.119	.079	.069	.058	.048
27	.980	.964	.837	.720	.615	.571	.544	.450	.425	.377	.331	.306	.282	.216	.143	.125	.083	.073	.063	.052
28	.982	.968	.843	.726	.621	.579	.552	.454	.431	.381	.335	.310	.286	.224	.149	.131	.087	.077	.067	.056
29	.984	.972	.849	.732	.627	.587	.560	.460	.438	.385	.337	.315	.290	.228	.155	.137	.091	.081	.071	.060
30	.986	.976	.855	.738	.633	.595	.569	.466	.444	.389	.339	.319	.294	.232	.159	.143	.095	.085	.075	.065
31	.988	.980	.861	.744	.639	.601	.577	.472	.450	.395	.341	.321	.298	.236	.161	.147	.099	.089	.079	.069
32	.990	.984	.867	.748	.645	.607	.585	.478	.456	.399	.345	.323	.302	.240	.163	.151	.103	.093	.083	.073
33	.992	.988	.873	.752	.651	.613	.591	.484	.462	.403	.349	.327	.304	.244	.165	.153	.107	.097	.087	.077
34	.994	.990	.881	.756	.655	.619	.597	.490	.468	.407	.351	.331	.308	.246	.167	.155	.111	.101	.091	.081
35	.996	.992	.889	.762	.659	.625	.603	.496	.474	.411	.353	.335	.313	.250	.169	.157	.113	.105	.095	.085
36	.998	.994	.895	.768	.665	.631	.609	.502	.480	.415	.355	.337	.317	.254	.173	.159	.115	.109	.099	.089
37	1.00	.996	.901	.776	.671	.637	.615	.508	.486	.419	.357	.339	.321	.258	.177	.163	.117	.111	.103	.093
38	1.00	.998	.907	.784	.679	.643	.621	.514	.492	.423	.359	.341	.323	.262	.181	.167	.121	.113	.107	.097
39	1.00	1.00	.913	.792	.688	.649	.627	.520	.498	.427	.361	.343	.325	.266	.185	.171	.125	.117	.109	.101
40	1.00	1.00	.919	.800	.696	.655	.633	.526	.504	.431	.363	.345	.327	.268	.190	.175	.129	.121	.113	.105

TOTAL OBSERVATIONS 496

TABLE 10. S. R. P(W < W\*) I CONSECUTIVE LAUNCH OPPORTUNITIES IN J PERIODS (W\* = 30 M/SEC).  
BASED ON MAXIMUM WIND SPEEDS IN THE 10-15 KM LAYER OVER CAPE KENNEDY, FLORIDA.  
PERIOD OF RECORD JANUARY 1956 - DECEMBER 1963.

CAPE KENNEDY . FLORIDA OCTOBER

SPEEDS LESS THAN 030 MPS

P ( I SUCCESSES IN J PERIODS )

I

J	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
1	.601																			
2	.683	.512																		
3	.740	.599	.442																	
4	.780	.659	.528	.387																
5	.815	.698	.591	.472	.343															
6	.841	.738	.623	.534	.427	.304														
7	.865	.768	.665	.563	.492	.387	.270													
8	.887	.798	.694	.603	.516	.454	.357	.236												
9	.905	.827	.724	.635	.544	.482	.421	.323	.208											
10	.917	.857	.750	.667	.571	.506	.454	.387	.294	.179										
11	.929	.877	.780	.694	.603	.528	.476	.423	.359	.266	.153									
12	.940	.897	.798	.726	.625	.565	.494	.442	.399	.331	.242	.127								
13	.950	.915	.819	.742	.657	.585	.534	.452	.417	.375	.306	.218	.101							
14	.956	.935	.839	.758	.677	.613	.554	.490	.425	.391	.355	.282	.194	.081						
15	.960	.948	.865	.774	.700	.633	.581	.508	.462	.399	.369	.335	.258	.167	.065					
16	.962	.956	.885	.796	.722	.657	.595	.530	.486	.429	.377	.347	.313	.232	.141	.052				
17	.964	.958	.903	.813	.748	.683	.615	.540	.510	.456	.401	.355	.323	.290	.198	.125	.042			
18	.966	.960	.915	.827	.764	.714	.641	.558	.518	.484	.423	.379	.331	.300	.254	.177	.107	.036		
19	.968	.962	.927	.835	.776	.732	.677	.583	.532	.494	.452	.399	.353	.308	.266	.228	.155	.097	.030	
20	.968	.966	.938	.845	.780	.748	.698	.623	.552	.508	.464	.423	.373	.329	.274	.238	.204	.139	.089	.024
21	.968	.966	.948	.855	.786	.756	.714	.647	.593	.528	.478	.435	.393	.349	.292	.246	.214	.183	.127	.081
22	.970	.966	.954	.865	.792	.766	.722	.665	.619	.571	.498	.450	.403	.369	.313	.262	.224	.192	.165	.119
23	.972	.968	.956	.877	.798	.774	.730	.673	.639	.599	.540	.474	.411	.379	.333	.282	.238	.202	.173	.151
24	.974	.970	.958	.887	.808	.778	.740	.681	.647	.621	.571	.518	.433	.385	.345	.300	.258	.216	.181	.155
25	.976	.972	.960	.895	.821	.784	.746	.690	.655	.629	.595	.548	.480	.405	.353	.310	.278	.236	.192	.159
26	.978	.974	.962	.903	.831	.794	.752	.694	.661	.639	.605	.571	.512	.454	.371	.321	.286	.256	.212	.165
27	.980	.976	.964	.909	.843	.800	.764	.696	.667	.643	.619	.579	.532	.494	.417	.341	.292	.264	.236	.181
28	.982	.978	.966	.915	.853	.808	.772	.706	.671	.647	.623	.597	.536	.516	.462	.391	.308	.268	.246	.204
29	.984	.980	.970	.919	.863	.817	.782	.710	.685	.649	.629	.603	.554	.518	.486	.440	.357	.280	.250	.214
30	.986	.982	.974	.925	.869	.825	.796	.714	.696	.659	.633	.609	.558	.536	.490	.464	.407	.327	.260	.216
31	.988	.984	.976	.933	.875	.831	.808	.724	.702	.669	.645	.615	.563	.540	.510	.468	.433	.377	.304	.222
32	.990	.986	.978	.938	.887	.837	.815	.738	.710	.675	.657	.627	.569	.544	.516	.488	.440	.405	.353	.264
33	.992	.988	.980	.942	.893	.851	.821	.744	.726	.683	.661	.645	.577	.552	.520	.500	.460	.411	.379	.313
34	.994	.990	.982	.948	.897	.859	.837	.750	.732	.702	.667	.649	.601	.558	.530	.502	.480	.429	.381	.341
35	.996	.992	.984	.954	.903	.865	.845	.768	.736	.714	.679	.655	.609	.583	.538	.508	.484	.458	.391	.341
36	.998	.994	.986	.958	.911	.873	.851	.780	.750	.722	.690	.665	.617	.593	.558	.518	.492	.464	.419	.347
37	1.00	.996	.988	.962	.917	.883	.859	.790	.762	.730	.698	.677	.627	.601	.569	.536	.502	.476	.425	.377
38	1.00	1.00	.990	.966	.923	.893	.867	.804	.772	.738	.706	.683	.641	.611	.575	.550	.514	.488	.442	.385
39	1.00	1.00	.996	.970	.929	.899	.879	.819	.782	.744	.714	.688	.651	.623	.583	.558	.528	.496	.460	.401
40	1.00	1.00	.998	.978	.935	.905	.885	.839	.794	.754	.722	.692	.659	.633	.593	.567	.538	.508	.470	.421

TOTAL OBSERVATIONS 496

TABLE 10.5.b. P(W < W\*) I LAUNCH OPPORTUNITIES IN J PERIODS (W\* = 30 M/SEC).  
 BASED ON MAXIMUM WIND SPEEDS IN THE 10-15 KM LAYER OVER CAPE KENNEDY, FLORIDA.

PERIOD OF RECORD JANUARY 1956 - DECEMBER 1963.



CAPE KENNEDY, FLORIDA OCTOBER  
SPEEDS LESS THAN 035 MPS

PC ( 1 CONSECUTIVE SUCCESSES IN J PERIODS )

J	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
1	.723																			
2	.790	.643																		
3	.837	.698	.581																	
4	.871	.752	.621	.528																
5	.901	.792	.661	.556	.486															
6	.925	.829	.702	.585	.512	.446														
7	.942	.863	.730	.613	.538	.470	.407													
8	.952	.891	.756	.643	.565	.494	.429	.371												
9	.960	.909	.778	.665	.593	.518	.452	.391	.337											
10	.968	.921	.800	.685	.623	.544	.474	.411	.355	.304										
11	.976	.931	.819	.702	.647	.573	.496	.431	.373	.323	.272									
12	.984	.940	.835	.718	.667	.603	.520	.452	.391	.341	.290	.242								
13	.992	.948	.849	.730	.683	.625	.546	.474	.409	.359	.308	.260	.212							
14	.996	.956	.863	.740	.700	.643	.573	.498	.429	.377	.327	.278	.226	.188						
15	1.00	.964	.877	.748	.712	.657	.589	.522	.452	.397	.345	.296	.240	.202	.163					
16	1.00	.970	.891	.756	.724	.671	.603	.544	.474	.419	.365	.315	.254	.216	.175	.141				
17	1.00	.976	.905	.764	.734	.685	.613	.560	.494	.442	.387	.335	.268	.230	.188	.151	.121			
18	1.00	.980	.917	.772	.744	.700	.623	.575	.514	.462	.409	.357	.282	.244	.200	.161	.131	.103		
19	1.00	.984	.927	.778	.754	.712	.633	.585	.528	.482	.429	.379	.298	.258	.212	.171	.141	.111	.087	
20	1.00	.988	.938	.782	.764	.724	.643	.595	.540	.502	.450	.399	.315	.272	.224	.181	.151	.119	.091	.077
21	1.00	.990	.948	.786	.770	.736	.651	.605	.548	.516	.470	.419	.329	.286	.236	.192	.161	.127	.095	.081
22	1.00	.992	.958	.790	.774	.748	.659	.615	.556	.528	.490	.440	.343	.298	.248	.202	.171	.135	.099	.085
23	1.00	.994	.966	.794	.778	.756	.657	.623	.565	.534	.504	.460	.357	.310	.258	.212	.181	.143	.103	.089
24	1.00	.996	.972	.798	.782	.762	.675	.631	.573	.544	.516	.480	.371	.323	.268	.220	.192	.151	.107	.093
25	1.00	.998	.978	.804	.786	.768	.681	.639	.579	.552	.524	.492	.385	.335	.278	.228	.200	.159	.111	.097
26	1.00	1.00	.982	.810	.792	.774	.685	.647	.585	.560	.532	.504	.397	.347	.288	.236	.208	.165	.115	.101
27	1.00	1.00	.986	.817	.798	.780	.690	.653	.591	.567	.540	.512	.403	.357	.298	.244	.216	.171	.119	.105
28	1.00	1.00	.990	.823	.804	.786	.696	.657	.597	.573	.548	.520	.409	.365	.308	.252	.224	.177	.123	.109
29	1.00	1.00	.992	.829	.810	.792	.700	.663	.601	.579	.554	.528	.415	.369	.317	.260	.232	.183	.127	.113
30	1.00	1.00	.994	.835	.817	.798	.704	.669	.607	.585	.560	.536	.421	.373	.325	.266	.240	.190	.131	.117
31	1.00	1.00	.996	.841	.823	.804	.708	.673	.613	.591	.567	.542	.427	.377	.329	.272	.246	.196	.135	.121
32	1.00	1.00	.998	.847	.829	.810	.712	.677	.619	.597	.575	.548	.433	.381	.333	.278	.252	.202	.139	.125
33	1.00	1.00	1.00	.851	.835	.817	.716	.681	.623	.603	.581	.556	.438	.385	.337	.282	.258	.208	.143	.129
34	1.00	1.00	1.00	.855	.841	.823	.720	.685	.627	.609	.587	.565	.444	.389	.341	.286	.264	.214	.147	.133
35	1.00	1.00	1.00	.861	.847	.829	.724	.690	.631	.613	.593	.571	.450	.393	.345	.290	.268	.220	.151	.137
36	1.00	1.00	1.00	.867	.853	.837	.728	.694	.635	.617	.599	.577	.456	.397	.351	.294	.272	.226	.155	.141
37	1.00	1.00	1.00	.873	.859	.843	.732	.698	.639	.621	.603	.583	.460	.401	.355	.300	.276	.230	.159	.145
38	1.00	1.00	1.00	.879	.865	.847	.736	.702	.643	.625	.607	.589	.464	.405	.359	.306	.282	.234	.163	.149
39	1.00	1.00	1.00	.885	.871	.851	.740	.706	.647	.629	.611	.593	.468	.407	.363	.313	.288	.240	.165	.153
40	1.00	1.00	1.00	.891	.877	.855	.744	.710	.651	.633	.615	.597	.472	.409	.367	.315	.294	.246	.169	.157

TOTAL OBSERVATIONS 496

TABLE 10. 6.a. P(W < W\*) 1 CONSECUTIVE LAUNCH OPPORTUNITIES IN J PERIODS (W\* = 35 M/SEC).  
BASED ON MAXIMUM WIND SPEEDS IN THE 10-15 KM LAYER OVER CAPE KENNEDY, FLORIDA.  
PERIOD OF RECORD JANUARY 1956 - DECEMBER 1963.

CAPE KENNEDY, FLORIDA OCTOBER  
SPEEDS LESS THAN 035 MPS

P ( I SUCCESSSES IN J PERIODS )

	I																			
J	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
1	.720																			
2	.790	.643																		
3	.837	.727	.581																	
4	.871	.774	.659	.528																
5	.901	.815	.706	.607	.486															
6	.925	.855	.738	.653	.569	.446														
7	.942	.889	.778	.685	.617	.534	.407													
8	.952	.909	.827	.718	.653	.585	.500	.371												
9	.960	.919	.859	.772	.679	.623	.552	.468	.337											
10	.968	.927	.879	.815	.728	.647	.591	.524	.435	.304										
11	.976	.935	.897	.841	.770	.694	.611	.565	.492	.409	.272									
12	.984	.944	.913	.867	.794	.732	.657	.581	.534	.468	.383	.242								
13	.992	.952	.927	.891	.817	.750	.698	.625	.548	.514	.444	.359	.212							
14	.996	.964	.941	.909	.845	.762	.720	.661	.591	.528	.494	.419	.331	.188						
15	1.00	.970	.954	.925	.867	.786	.734	.681	.627	.571	.508	.474	.387	.310	.163					
16	1.00	.980	.960	.942	.887	.810	.756	.692	.649	.607	.550	.488	.442	.367	.288	.141				
17	1.00	.984	.972	.950	.907	.837	.780	.710	.655	.631	.597	.530	.458	.419	.343	.268	.121			
18	1.00	.988	.978	.962	.919	.863	.808	.726	.671	.635	.613	.567	.502	.433	.395	.321	.250	.103		
19	1.00	.990	.986	.970	.935	.877	.839	.748	.685	.647	.615	.597	.540	.478	.407	.375	.298	.232	.087	
20	1.00	.992	.988	.984	.946	.895	.853	.778	.710	.655	.625	.599	.575	.518	.452	.385	.351	.278	.212	.077
21	1.00	.994	.990	.986	.968	.903	.875	.788	.744	.677	.627	.609	.579	.556	.492	.429	.359	.329	.256	.196
22	1.00	.996	.992	.988	.972	.929	.885	.810	.758	.708	.645	.611	.589	.563	.534	.470	.405	.335	.304	.236
23	1.00	.998	.994	.990	.974	.938	.913	.825	.780	.724	.669	.627	.591	.573	.540	.518	.444	.379	.313	.280
24	1.00	1.00	.996	.992	.976	.944	.919	.857	.800	.746	.681	.649	.605	.575	.548	.526	.496	.417	.357	.290
25	1.00	1.00	1.00	.994	.978	.950	.923	.864	.837	.768	.700	.655	.629	.587	.548	.534	.506	.478	.393	.335
26	1.00	1.00	1.00	1.00	.980	.956	.927	.879	.851	.808	.720	.663	.635	.611	.558	.534	.514	.490	.460	.369
27	1.00	1.00	1.00	1.00	.988	.960	.935	.889	.863	.823	.764	.675	.641	.617	.593	.542	.514	.500	.474	.440
28	1.00	1.00	1.00	1.00	.992	.968	.938	.905	.875	.839	.778	.716	.653	.623	.589	.567	.520	.500	.486	.456
29	1.00	1.00	1.00	1.00	.996	.974	.942	.909	.897	.851	.796	.730	.694	.633	.595	.573	.542	.506	.486	.470
30	1.00	1.00	1.00	1.00	.998	.982	.946	.911	.903	.877	.810	.748	.712	.671	.605	.577	.546	.528	.492	.470
31	1.00	1.00	1.00	1.00	1.00	.986	.954	.913	.907	.885	.843	.762	.730	.688	.647	.585	.546	.532	.514	.476
32	1.00	1.00	1.00	1.00	1.00	.992	.958	.919	.909	.893	.853	.798	.746	.700	.667	.627	.550	.532	.518	.500
33	1.00	1.00	1.00	1.00	1.00	.994	.968	.923	.913	.897	.865	.813	.780	.718	.677	.651	.589	.536	.518	.504
34	1.00	1.00	1.00	1.00	1.00	.996	.972	.935	.917	.901	.871	.831	.792	.754	.694	.661	.619	.569	.522	.504
35	1.00	1.00	1.00	1.00	1.00	.998	.976	.944	.927	.905	.877	.839	.813	.768	.728	.677	.635	.597	.550	.508
36	1.00	1.00	1.00	1.00	1.00	1.00	.980	.952	.935	.913	.883	.847	.821	.792	.744	.710	.651	.615	.579	.532
37	1.00	1.00	1.00	1.00	1.00	1.00	.984	.960	.946	.919	.893	.857	.829	.802	.768	.726	.683	.627	.601	.556
38	1.00	1.00	1.00	1.00	1.00	1.00	.986	.966	.956	.927	.903	.869	.841	.813	.786	.742	.702	.657	.611	.579
39	1.00	1.00	1.00	1.00	1.00	1.00	.988	.970	.962	.940	.911	.883	.853	.825	.798	.762	.716	.677	.637	.585
40	1.00	1.00	1.00	1.00	1.00	1.00	.990	.974	.966	.948	.925	.891	.869	.837	.810	.774	.740	.690	.657	.605

TOTAL OBSERVATIONS 496

TABLE 10. 6.b. P(N < N\*) I LAUNCH OPPORTUNITIES IN J PERIODS (N\* = 35 M/SEC).  
BASED ON MAXIMUM WIND SPEEDS IN THE 10-15 KM LAYER OVER CAPE KENNEDY, FLORIDA.  
PERIOD OF RECORD JANUARY 1956 - DECEMBER 1963.

CAPF KENNEDY, FLORIDA OCTOBER  
SPEEDS LESS THAN 040 MPS

PC : I CONSECUTIVE SUCCESSES IN J PERIODS )

	I																			
J	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
1	.819																			
2	.879	.754																		
3	.919	.802	.704																	
4	.946	.849	.742	.657																
5	.962	.883	.780	.685	.619															
6	.974	.911	.821	.714	.645	.581														
7	.982	.931	.857	.744	.671	.605	.544													
8	.988	.946	.883	.778	.698	.629	.565	.512												
9	.994	.954	.901	.806	.728	.653	.585	.528	.484											
10	.998	.962	.915	.829	.758	.681	.605	.544	.500	.454										
11	1.00	.970	.927	.843	.786	.710	.627	.567	.516	.470	.429									
12	1.00	.978	.940	.859	.808	.738	.649	.579	.532	.484	.442	.407								
13	1.00	.986	.950	.875	.825	.764	.671	.607	.550	.498	.454	.419	.385							
14	1.00	.992	.960	.889	.841	.786	.681	.615	.549	.514	.466	.431	.395	.365						
15	1.00	.998	.970	.903	.859	.800	.710	.633	.587	.530	.480	.444	.405	.375	.345					
16	1.00	1.00	.980	.917	.875	.817	.728	.649	.605	.546	.496	.458	.415	.385	.355	.325				
17	1.00	1.00	.990	.931	.891	.833	.738	.663	.621	.560	.508	.472	.427	.395	.365	.335	.304			
18	1.00	1.00	.994	.946	.907	.847	.748	.675	.637	.577	.522	.486	.440	.405	.375	.345	.313	.286		
19	1.00	1.00	.996	.958	.923	.861	.758	.681	.651	.591	.534	.500	.452	.415	.385	.355	.321	.294	.268	
20	1.00	1.00	.998	.966	.940	.875	.768	.688	.663	.605	.546	.512	.464	.425	.395	.365	.329	.302	.274	.252
21	1.00	1.00	1.00	.974	.952	.889	.778	.694	.669	.617	.558	.524	.474	.435	.405	.375	.337	.310	.280	.258
22	1.00	1.00	1.00	.982	.960	.903	.788	.700	.675	.627	.571	.536	.484	.444	.415	.385	.345	.319	.286	.264
23	1.00	1.00	1.00	.988	.968	.913	.798	.706	.681	.631	.581	.548	.494	.452	.423	.395	.353	.327	.292	.270
24	1.00	1.00	1.00	.992	.976	.919	.808	.712	.688	.635	.589	.558	.504	.460	.431	.403	.361	.335	.298	.276
25	1.00	1.00	1.00	.994	.982	.925	.815	.718	.694	.639	.591	.569	.512	.468	.440	.411	.367	.343	.304	.282
26	1.00	1.00	1.00	.996	.986	.931	.817	.724	.700	.643	.593	.577	.520	.474	.448	.419	.373	.349	.310	.288
27	1.00	1.00	1.00	.998	.988	.934	.821	.730	.706	.647	.595	.579	.528	.480	.454	.427	.379	.355	.317	.294
28	1.00	1.00	1.00	1.00	.990	.940	.825	.736	.712	.651	.597	.581	.534	.486	.460	.433	.385	.361	.323	.300
29	1.00	1.00	1.00	1.00	.992	.942	.827	.742	.720	.655	.599	.583	.536	.492	.466	.440	.391	.367	.329	.306
30	1.00	1.00	1.00	1.00	.994	.944	.829	.748	.726	.661	.601	.585	.538	.496	.472	.446	.397	.373	.335	.313
31	1.00	1.00	1.00	1.00	.996	.946	.831	.754	.732	.667	.605	.587	.540	.496	.478	.452	.403	.379	.341	.319
32	1.00	1.00	1.00	1.00	.998	.950	.833	.760	.738	.673	.609	.591	.542	.496	.482	.458	.409	.385	.347	.325
33	1.00	1.00	1.00	1.00	1.00	.954	.839	.766	.744	.679	.613	.595	.546	.496	.482	.464	.415	.391	.353	.331
34	1.00	1.00	1.00	1.00	1.00	.958	.843	.776	.750	.685	.617	.599	.550	.498	.482	.468	.421	.397	.359	.337
35	1.00	1.00	1.00	1.00	1.00	.962	.847	.786	.760	.692	.621	.603	.554	.500	.484	.468	.427	.403	.365	.343
36	1.00	1.00	1.00	1.00	1.00	.966	.851	.794	.770	.702	.625	.607	.558	.502	.486	.470	.431	.409	.371	.349
37	1.00	1.00	1.00	1.00	1.00	.968	.857	.802	.780	.712	.633	.611	.563	.504	.488	.472	.433	.415	.377	.355
38	1.00	1.00	1.00	1.00	1.00	.970	.861	.813	.788	.722	.641	.617	.567	.506	.490	.474	.435	.421	.383	.361
39	1.00	1.00	1.00	1.00	1.00	.972	.865	.823	.798	.732	.649	.623	.571	.508	.492	.476	.438	.423	.381	.367
40	1.00	1.00	1.00	1.00	1.00	.974	.869	.833	.808	.742	.657	.629	.575	.512	.494	.478	.440	.425	.387	.375

TOTAL OBSERVATIONS 496

TABLE 10. 7.a. P(W < W\*) I CONSECUTIVE LAUNCH OPPORTUNITIES IN J PERIODS (W\* = 40 M/SEC).  
BASED ON MAXIMUM WIND SPEEDS IN THE 10-15 KM LAYER OVER CAPE KENNEDY, FLORIDA.  
PERIOD OF RECORD JANUARY 1956 - DECEMBER 1963.

CAPE KENNEDY - FLORIDA OCTOBER  
SPEEDS LESS THAN 040 MPS

P ( I SUCCESSES IN J PERIODS )

	I																			
J	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
1	.819																			
2	.879	.756																		
3	.919	.823	.704																	
4	.946	.871	.776	.657																
5	.962	.907	.835	.728	.619															
6	.974	.929	.879	.788	.696	.581														
7	.982	.946	.909	.835	.764	.659	.544													
8	.988	.956	.931	.865	.817	.738	.619	.512												
9	.994	.964	.944	.895	.843	.798	.706	.581	.484											
10	.998	.974	.956	.909	.875	.825	.772	.669	.550	.456										
11	1.00	.984	.966	.925	.891	.859	.800	.740	.643	.518	.429									
12	1.00	.992	.978	.940	.909	.875	.837	.770	.718	.611	.490	.407								
13	1.00	.998	.986	.958	.923	.895	.853	.808	.748	.683	.587	.464	.385							
14	1.00	1.00	.996	.972	.942	.909	.875	.829	.782	.710	.661	.565	.438	.365						
15	1.00	1.00	1.00	.988	.958	.929	.891	.853	.804	.734	.690	.641	.540	.415	.345					
16	1.00	1.00	1.00	.996	.976	.950	.915	.869	.827	.758	.708	.673	.617	.520	.393	.325				
17	1.00	1.00	1.00	.998	.986	.972	.940	.895	.839	.784	.730	.690	.655	.595	.496	.373	.304			
18	1.00	1.00	1.00	1.00	.990	.982	.966	.923	.863	.800	.758	.704	.673	.635	.571	.472	.351	.286		
19	1.00	1.00	1.00	1.00	.994	.988	.976	.954	.891	.829	.774	.732	.683	.655	.611	.548	.450	.329	.268	
20	1.00	1.00	1.00	1.00	.996	.992	.986	.964	.925	.857	.802	.746	.714	.661	.635	.589	.526	.429	.304	.252
21	1.00	1.00	1.00	1.00	.998	.994	.990	.980	.935	.893	.831	.774	.724	.694	.641	.619	.563	.508	.403	.288
22	1.00	1.00	1.00	1.00	1.00	.996	.992	.984	.960	.901	.843	.806	.750	.704	.675	.625	.597	.542	.480	.387
23	1.00	1.00	1.00	1.00	1.00	1.00	.994	.990	.968	.929	.867	.839	.782	.734	.688	.655	.603	.579	.512	.462
24	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.992	.978	.942	.893	.843	.817	.764	.720	.671	.629	.585	.550	.490
25	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.982	.960	.905	.861	.825	.798	.750	.704	.649	.607	.556	.526
26	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.996	.966	.927	.867	.845	.806	.782	.736	.679	.631	.579	.528
27	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.998	.986	.928	.885	.855	.827	.788	.770	.714	.659	.607	.546
28	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.990	.964	.897	.873	.841	.806	.774	.750	.698	.633	.579
29	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.994	.974	.921	.885	.863	.825	.788	.754	.736	.671	.609
30	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.996	.980	.938	.901	.879	.849	.808	.766	.740	.716	.643
31	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.998	.984	.948	.917	.891	.869	.835	.786	.752	.722	.692
32	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.988	.958	.921	.911	.879	.857	.815	.772	.736	.696
33	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.994	.968	.927	.915	.903	.865	.841	.800	.756	.710
34	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.998	.980	.938	.919	.909	.891	.849	.829	.784	.732
35	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.998	.988	.950	.927	.913	.903	.873	.839	.815	.762
36	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.994	.962	.935	.921	.907	.891	.861	.827	.796
37	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.972	.948	.927	.915	.895	.883	.849	.810
38	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.984	.958	.940	.921	.903	.887	.833
39	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.992	.968	.950	.933	.909	.895	.881
40	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.998	.976	.960	.944	.921	.901	.889

TOTAL OBSERVATIONS 496

TABLE 10. 7.b. P(W < W\*) I LAUNCH OPPORTUNITIES IN J PERIODS (W\* = 40 M/SEC).  
BASED ON MAXIMUM WIND SPEEDS IN THE 10-15 KM LAYER OVER CAPE KENNEDY, FLORIDA.  
PERIOD OF RECORD JANUARY 1956 - DECEMBER 1963.

CAPE KENNEDY, FLORIDA OCTOBER  
SPEEDS LESS THAN 045 MPH

PC ( I CONSECUTIVE SUCCESSES IN J PERIODS )

J	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
1	.897																			
2	.935	.857																		
3	.962	.893	.819																	
4	.978	.929	.849	.786																
5	.986	.954	.879	.817	.750															
6	.992	.970	.909	.847	.774	.714														
7	.998	.978	.933	.877	.806	.740	.679													
8	1.00	.984	.952	.909	.835	.764	.702	.649												
9	1.00	.990	.962	.933	.865	.792	.724	.671	.619											
10	1.00	.994	.970	.952	.897	.821	.746	.694	.635	.595										
11	1.00	.996	.978	.962	.921	.851	.770	.716	.651	.611	.571									
12	1.00	.998	.984	.970	.942	.881	.796	.740	.667	.627	.583	.550								
13	1.00	1.00	.988	.978	.956	.903	.823	.766	.715	.643	.595	.560	.528							
14	1.00	1.00	.992	.984	.966	.923	.849	.792	.706	.661	.607	.571	.538	.506						
15	1.00	1.00	.996	.988	.976	.935	.871	.819	.726	.681	.621	.581	.548	.512	.488					
16	1.00	1.00	.998	.992	.984	.948	.891	.845	.746	.702	.637	.593	.558	.518	.494	.470				
17	1.00	1.00	1.00	.996	.988	.958	.907	.867	.766	.722	.653	.605	.571	.524	.500	.476	.452			
18	1.00	1.00	1.00	.998	.992	.966	.921	.887	.786	.742	.669	.617	.583	.530	.506	.482	.458	.433		
19	1.00	1.00	1.00	1.00	.996	.972	.935	.903	.806	.762	.685	.629	.595	.536	.512	.488	.464	.440	.415	
20	1.00	1.00	1.00	1.00	.998	.978	.948	.917	.827	.782	.702	.641	.607	.542	.518	.494	.470	.446	.419	.397
21	1.00	1.00	1.00	1.00	1.00	.984	.958	.931	.843	.802	.718	.653	.619	.548	.524	.500	.476	.452	.423	.401
22	1.00	1.00	1.00	1.00	1.00	.988	.968	.944	.857	.823	.734	.665	.631	.554	.530	.506	.482	.458	.427	.405
23	1.00	1.00	1.00	1.00	1.00	.992	.976	.954	.871	.839	.750	.677	.643	.560	.536	.512	.488	.464	.431	.409
24	1.00	1.00	1.00	1.00	1.00	.994	.982	.964	.883	.853	.766	.690	.655	.567	.542	.518	.494	.470	.435	.413
25	1.00	1.00	1.00	1.00	1.00	.996	.988	.972	.895	.867	.778	.702	.667	.573	.548	.524	.500	.476	.440	.417
26	1.00	1.00	1.00	1.00	1.00	.998	.990	.978	.907	.879	.790	.714	.679	.579	.554	.530	.506	.482	.444	.421
27	1.00	1.00	1.00	1.00	1.00	1.00	.992	.984	.917	.891	.802	.722	.692	.585	.560	.536	.512	.488	.450	.425
28	1.00	1.00	1.00	1.00	1.00	1.00	.994	.986	.927	.903	.813	.730	.704	.591	.567	.542	.518	.494	.456	.431
29	1.00	1.00	1.00	1.00	1.00	1.00	.996	.988	.938	.914	.823	.738	.712	.597	.573	.548	.524	.500	.462	.438
30	1.00	1.00	1.00	1.00	1.00	1.00	.996	.992	.944	.921	.833	.746	.720	.603	.579	.554	.530	.506	.468	.444
31	1.00	1.00	1.00	1.00	1.00	1.00	.996	.994	.952	.933	.841	.754	.728	.607	.585	.560	.536	.512	.474	.450
32	1.00	1.00	1.00	1.00	1.00	1.00	.998	.994	.960	.942	.849	.762	.736	.611	.591	.567	.542	.518	.480	.456
33	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.996	.966	.950	.859	.770	.744	.615	.595	.573	.548	.524	.486	.462
34	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.998	.972	.956	.869	.780	.752	.619	.599	.579	.554	.530	.492	.468
35	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.978	.966	.879	.790	.762	.623	.603	.583	.560	.536	.498	.474
36	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.984	.972	.891	.800	.772	.629	.607	.587	.567	.542	.504	.480
37	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.988	.978	.901	.813	.782	.635	.613	.591	.571	.548	.510	.486
38	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.990	.984	.911	.825	.794	.643	.619	.595	.575	.554	.516	.492
39	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.992	.988	.921	.835	.808	.653	.627	.599	.579	.558	.522	.498
40	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.994	.990	.931	.845	.821	.665	.637	.605	.583	.563	.528	.504

TOTAL OBSERVATIONS 496

TABLE 10. 8. a. P(W < W0) I CONSECUTIVE LAUNCH OPPORTUNITIES IN J PERIODS (W0 = 45 M/SEC).  
BASED ON MAXIMUM WIND SPEEDS IN THE 10-15 KM LAYER OVER CAPE KENNEDY, FLORIDA.

PERIOD OF RECORD JANUARY 1956 - DECEMBER 1963.

CAPE KENNEDY, FLORIDA OCTOBER  
 SPEEDS LESS THAN 45 MPS

P(I) SUCCESSSES IN J PERIODS I

	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
1	.897																			
2	.935	.857																		
3	.962	.907	.819																	
4	.978	.942	.875	.786																
5	.986	.964	.921	.849	.750															
6	.992	.974	.956	.901	.819	.714														
7	.998	.980	.958	.948	.875	.788	.679													
8	1.00	.990	.974	.962	.931	.849	.759	.649												
9	1.00	.996	.986	.968	.954	.909	.825	.732	.619											
10	1.00	.998	.994	.982	.962	.935	.893	.800	.702	.595										
11	1.00	1.00	.996	.992	.978	.949	.923	.877	.770	.679	.571									
12	1.00	1.00	1.00	.994	.990	.966	.940	.911	.859	.744	.653	.550								
13	1.00	1.00	1.00	1.00	.992	.980	.962	.931	.897	.843	.712	.631	.528							
14	1.00	1.00	1.00	1.00	1.00	.984	.976	.958	.921	.885	.819	.683	.609	.506						
15	1.00	1.00	1.00	1.00	1.00	.996	.980	.972	.952	.913	.865	.796	.655	.585	.448					
16	1.00	1.00	1.00	1.00	1.00	.998	.994	.976	.968	.946	.899	.843	.772	.627	.545	.470				
17	1.00	1.00	1.00	1.00	1.00	1.00	.996	.997	.972	.962	.938	.877	.823	.746	.675	.542	.452			
18	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.994	.990	.966	.956	.919	.861	.800	.724	.581	.520	.433		
19	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.992	.984	.962	.942	.905	.841	.778	.704	.556	.498	.415	
20	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.990	.982	.952	.927	.889	.817	.760	.681	.532	.476	.397
21	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.988	.974	.940	.913	.863	.800	.738	.661	.508	.456
22	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.984	.966	.927	.883	.849	.780	.720	.639	.486
23	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.980	.958	.897	.869	.829	.764	.704	.617
24	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.976	.931	.881	.851	.810	.752	.688
25	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.958	.913	.865	.831	.798	.740
26	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.992	.942	.897	.847	.817	.786
27	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.996	.980	.929	.879	.833	.804
28	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.998	.986	.972	.913	.865	.823
29	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.988	.982	.958	.901	.853
30	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.992	.986	.972	.946	.891
31	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.994	.990	.982	.960	.933
32	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.996	.992	.988	.974	.950
33	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.998	.994	.990	.984	.966
34	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.996	.992	.988	.978
35	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.994	.990	.986
36	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.992	.988
37	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.990
38	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
39	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
40	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00

TOTAL OBSERVATIONS 496

TABLE 10. 8. b. P(W < W\*) I LAUNCH OPPORTUNITIES IN J PERIODS (W\* = 45 M/SEC).  
 BASED ON MAXIMUM WIND SPEEDS IN THE 10-15 KM LAYER OVER CAPE KENNEDY, FLORIDA.  
 PERIOD OF RECORD JANUARY 1956 - DECEMBER 1963.

CAPE KENNEDY, FLORIDA OCTOBER  
SPEEDS LESS THAN 050 MPS

PC ( I CONSECUTIVE SUCCESSES IN J PERIODS )

J	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
1	.931																			
2	.960	.903																		
3	.976	.929	.877																	
4	.986	.956	.901	.853																
5	.990	.970	.925	.875	.827															
6	.994	.978	.950	.897	.849	.798														
7	.998	.982	.966	.919	.871	.819	.772													
8	1.00	.986	.976	.942	.893	.839	.790	.748												
9	1.00	.990	.982	.958	.915	.859	.808	.766	.724											
10	1.00	.994	.986	.968	.940	.879	.827	.784	.740	.702										
11	1.00	.996	.990	.974	.958	.901	.845	.802	.756	.718	.679									
12	1.00	.998	.994	.980	.968	.925	.865	.821	.772	.734	.694	.659								
13	1.00	1.00	.996	.986	.974	.942	.887	.841	.788	.750	.708	.673	.639							
14	1.00	1.00	.998	.992	.980	.952	.904	.806	.766	.722	.688	.651	.617							
15	1.00	1.00	1.00	.996	.986	.958	.925	.877	.844	.784	.736	.702	.663	.627	.597					
16	1.00	1.00	1.00	.998	.992	.966	.938	.907	.847	.804	.752	.716	.675	.637	.603	.579				
17	1.00	1.00	1.00	1.00	.996	.972	.946	.923	.867	.825	.770	.732	.688	.647	.609	.585	.560			
18	1.00	1.00	1.00	1.00	.998	.978	.954	.935	.887	.845	.788	.750	.702	.657	.615	.591	.567	.542		
19	1.00	1.00	1.00	1.00	1.00	.984	.962	.944	.903	.865	.806	.768	.718	.669	.621	.597	.573	.548	.522	
20	1.00	1.00	1.00	1.00	1.00	.988	.970	.952	.915	.885	.825	.786	.734	.683	.629	.603	.579	.554	.528	.502
21	1.00	1.00	1.00	1.00	1.00	.992	.978	.960	.923	.901	.843	.804	.750	.698	.639	.611	.585	.560	.534	.508
22	1.00	1.00	1.00	1.00	1.00	.994	.984	.968	.931	.913	.861	.823	.766	.712	.649	.621	.593	.567	.540	.514
23	1.00	1.00	1.00	1.00	1.00	.996	.988	.976	.940	.921	.875	.841	.782	.726	.659	.631	.603	.575	.546	.520
24	1.00	1.00	1.00	1.00	1.00	.998	.990	.982	.948	.929	.885	.859	.798	.740	.669	.641	.613	.585	.554	.526
25	1.00	1.00	1.00	1.00	1.00	.992	.986	.956	.938	.901	.873	.815	.754	.679	.651	.623	.595	.567	.534	
26	1.00	1.00	1.00	1.00	1.00	.994	.988	.962	.946	.907	.883	.831	.768	.690	.661	.633	.605	.575	.544	
27	1.00	1.00	1.00	1.00	1.00	.998	.990	.966	.954	.903	.889	.843	.782	.700	.671	.643	.615	.585	.554	
28	1.00	1.00	1.00	1.00	1.00	.994	.970	.960	.909	.895	.855	.796	.710	.681	.653	.625	.595	.565		
29	1.00	1.00	1.00	1.00	1.00	.998	.976	.964	.915	.901	.863	.804	.720	.692	.663	.635	.605	.575		
30	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.992	.970	.921	.907	.871	.817	.730	.702	.673	.645	.615	.585
31	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.998	.976	.927	.913	.879	.825	.738	.712	.683	.655	.625	.595
32	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.992	.982	.933	.921	.887	.833	.746	.722	.694	.665	.635	.605
33	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.994	.988	.940	.927	.897	.841	.752	.730	.704	.675	.645	.615
34	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.996	.992	.946	.933	.907	.851	.758	.738	.714	.685	.655	.625
35	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.998	.994	.952	.940	.915	.861	.766	.744	.722	.696	.665	.635
36	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.996	.998	.946	.923	.871	.774	.752	.730	.706	.675	.645	
37	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.998	.942	.952	.931	.879	.782	.760	.738	.714	.685	.655	
38	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.966	.958	.940	.887	.790	.770	.746	.724	.696	.665
39	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.970	.962	.948	.897	.796	.778	.756	.732	.706	.675
40	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.974	.966	.956	.905	.804	.786	.766	.742	.716	.688

TOTAL OBSERVATIONS 496

TABLE 10. P(W < W\*) I CONSECUTIVE LAUNCH OPPORTUNITIES IN J PERIODS (W\* = 50 M/SEC).  
BASED ON MAXIMUM WIND SPEEDS IN THE 10-15 KM LAYER OVER CAPE KENNEDY, FLORIDA.  
PERIOD OF RECORD JANUARY 1956 - DECEMBER 1963.

CAPE KENNEDY, FLORIDA OCTOBER  
SPEEDS LESS THAN 050 MPS

P ( I SUCCESSES IN J PERIODS )

	I																			
J	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
1	.931																			
2	.960	.903																		
3	.976	.942	.877																	
4	.980	.962	.925	.853																
5	.990	.976	.954	.907	.827															
6	.994	.980	.972	.946	.887	.798														
7	.998	.984	.976	.968	.938	.863	.772													
8	1.00	.990	.980	.972	.964	.921	.843	.748												
9	1.00	.996	.986	.976	.968	.954	.907	.825	.724											
10	1.00	.998	.994	.982	.972	.958	.948	.893	.804	.702										
11	1.00	1.00	.996	.992	.978	.964	.952	.942	.877	.786	.679									
12	1.00	1.00	1.00	.994	.990	.970	.960	.946	.933	.863	.766	.659								
13	1.00	1.00	1.00	1.00	.992	.984	.966	.956	.938	.927	.847	.748	.639							
14	1.00	1.00	1.00	1.00	1.00	.988	.980	.962	.950	.931	.919	.833	.728	.617						
15	1.00	1.00	1.00	1.00	1.00	1.00	.984	.976	.956	.946	.923	.913	.815	.710	.597					
16	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.980	.972	.950	.940	.917	.905	.792	.694	.579				
17	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.976	.966	.944	.933	.911	.889	.776	.677	.560			
18	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.970	.960	.938	.927	.897	.879	.760	.661	.542		
19	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.998	.966	.954	.931	.913	.891	.865	.746	.645	.522	
20	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.996	.962	.946	.919	.905	.879	.855	.732	.625	.502
21	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.994	.958	.933	.911	.891	.871	.845	.718	.605
22	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.992	.952	.923	.897	.881	.863	.835	.700
23	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.990	.946	.909	.887	.871	.855	.821
24	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.988	.933	.901	.877	.861	.845
25	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.980	.927	.893	.867	.851
26	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.972	.921	.885	.855
27	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.964	.915	.873
28	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.954	.907
29	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.998	.944
30	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.956
31	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
32	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
33	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
34	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
35	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
36	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
37	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
38	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
39	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
40	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
TOTAL OBSERVATIONS 496																				

TABLE 10. 9.b. P(W < W\*) I LAUNCH OPPORTUNITIES IN J PERIODS (W\* = 50 M/SEC).  
BASED ON MAXIMUM WIND SPEEDS IN THE 10-15 KM LAYER OVER CAPE KENNEDY, FLORIDA.  
PERIOD OF RECORD JANUARY 1956 - DECEMBER 1963.



CAPE KENNEDY, FLORIDA OCTOBER  
SPEEDS LESS THAN 055 MPS

PC ( I CONSECUTIVE SUCCESSES IN J PERIODS )

I

J	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
1	.966																			
2	.984	.948																		
3	.996	.962	.933																	
4	1.00	.976	.946	.921																
5	1.00	.984	.958	.933	.907															
6	1.00	.988	.970	.946	.919	.893														
7	1.00	.992	.976	.958	.931	.903	.879													
8	1.00	.996	.980	.970	.944	.913	.889	.865												
9	1.00	1.00	.984	.976	.956	.923	.899	.875	.851											
10	1.00	1.00	.988	.980	.968	.933	.909	.885	.861	.837										
11	1.00	1.00	.992	.984	.976	.944	.919	.895	.871	.847	.823									
12	1.00	1.00	.994	.988	.980	.956	.929	.905	.881	.857	.833	.808								
13	1.00	1.00	.996	.992	.984	.962	.942	.915	.891	.867	.843	.819	.794							
14	1.00	1.00	.998	.994	.988	.966	.954	.927	.901	.877	.853	.829	.802	.778						
15	1.00	1.00	1.00	.996	.992	.970	.960	.940	.913	.887	.863	.839	.810	.786	.762					
16	1.00	1.00	1.00	.998	.994	.974	.966	.952	.925	.899	.873	.849	.819	.794	.768	.748				
17	1.00	1.00	1.00	1.00	.996	.978	.970	.960	.938	.911	.885	.859	.827	.802	.774	.754	.732			
18	1.00	1.00	1.00	1.00	.998	.982	.974	.966	.950	.923	.897	.871	.835	.810	.780	.760	.738	.716		
19	1.00	1.00	1.00	1.00	1.00	.986	.978	.970	.956	.935	.909	.883	.845	.819	.786	.766	.744	.722	.700	
20	1.00	1.00	1.00	1.00	1.00	.990	.982	.974	.960	.948	.921	.895	.855	.829	.792	.772	.750	.728	.706	.684
21	1.00	1.00	1.00	1.00	1.00	.994	.986	.978	.964	.954	.933	.907	.865	.839	.800	.778	.756	.734	.712	.690
22	1.00	1.00	1.00	1.00	1.00	.996	.990	.982	.968	.958	.946	.919	.875	.849	.808	.786	.762	.740	.718	.696
23	1.00	1.00	1.00	1.00	1.00	.998	.994	.986	.972	.962	.952	.931	.895	.859	.817	.794	.770	.746	.724	.702
24	1.00	1.00	1.00	1.00	1.00	1.00	.996	.990	.976	.966	.956	.944	.895	.860	.825	.802	.778	.754	.730	.708
25	1.00	1.00	1.00	1.00	1.00	1.00	.998	.994	.980	.970	.960	.950	.905	.879	.833	.810	.786	.762	.738	.714
26	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.996	.984	.974	.964	.954	.915	.889	.841	.819	.794	.770	.746	.722
27	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.998	.990	.978	.968	.958	.921	.899	.849	.827	.802	.778	.754	.730
28	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.994	.984	.972	.962	.927	.913	.857	.835	.810	.786	.762	.738
29	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.998	.990	.978	.966	.933	.919	.869	.843	.819	.794	.770	.746
30	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.994	.984	.972	.940	.925	.881	.855	.827	.802	.778	.754
31	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.998	.990	.978	.948	.931	.887	.867	.839	.810	.786	.762
32	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.994	.984	.956	.940	.893	.879	.851	.823	.794	.770
33	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.998	.990	.964	.948	.901	.885	.863	.835	.806	.778
34	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.994	.972	.956	.909	.893	.875	.847	.819	.790
35	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.998	.980	.964	.917	.901	.883	.859	.831	.802
36	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.986	.972	.925	.909	.891	.873	.843	.815
37	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.992	.980	.933	.917	.869	.881	.857	.827
38	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.996	.986	.942	.925	.909	.889	.871	.841
39	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.998	.992	.950	.933	.917	.899	.879	.855
40	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.996	.958	.942	.925	.909	.889	.869

TOTAL OBSERVATIONS 496

TABLE 10.10.a. P(W < W\*) I CONSECUTIVE LAUNCH OPPORTUNITIES IN J PERIODS (W\* = 55 M/SEC).  
BASED ON MAXIMUM WIND SPEEDS IN THE 10-15 KM LAYER OVER CAPE KENNEDY, FLORIDA.  
PERIOD OF RECORD JANUARY 1956 - DECEMBER 1963.

CAPE KENNEDY, FLORIDA OCTOBER  
SPEEDS LESS THAN 055 MPS

P ( I SUCCESSES IN J PERIODS )

	I																				
J	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	
1	.966																				
2	.984	.948																			
3	.996	.968	.933																		
4	1.00	.984	.958	.921																	
5	1.00	.992	.976	.952	.907																
6	1.00	.996	.986	.970	.944	.893															
7	1.00	1.00	.992	.978	.966	.933	.879														
8	1.00	1.00	1.00	.984	.974	.958	.925	.865													
9	1.00	1.00	1.00	.996	.980	.968	.950	.917	.851												
10	1.00	1.00	1.00	.998	.994	.976	.960	.944	.909	.837											
11	1.00	1.00	1.00	1.00	.996	.992	.968	.956	.938	.901	.823										
12	1.00	1.00	1.00	1.00	1.00	.994	.986	.964	.952	.931	.893	.808									
13	1.00	1.00	1.00	1.00	1.00	1.00	.990	.982	.960	.948	.925	.885	.794								
14	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.986	.976	.956	.944	.919	.875	.778							
15	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.982	.974	.952	.940	.911	.867	.762						
16	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.978	.970	.948	.935	.903	.857	.748					
17	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.974	.966	.944	.931	.893	.849	.732				
18	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.970	.962	.940	.925	.883	.839	.716			
19	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.966	.958	.935	.919	.871	.829	.700		
20	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.962	.954	.931	.909	.861	.819	.683	
21	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.958	.950	.923	.901	.851	.803
22	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.954	.946	.915	.893	.841	
23	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.950	.940	.909	.885	
24	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.944	.935	.903	
25	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.998	.940	.931
26	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.996	.935
27	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.994
28	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
29	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
30	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
31	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
32	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
33	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
34	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
35	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
36	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
37	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
38	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
39	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
40	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00

TOTAL OBSERVATIONS 496

TABLE 10.10.b. P(W < W\*) I LAUNCH OPPORTUNITIES IN J PERIODS (W\* = 55 M/SEC).  
BASED ON MAXIMUM WIND SPEEDS IN THE 10-15 KM LAYER OVER CAPE KENNEDY, FLORIDA.  
PERIOD OF RECORD JANUARY 1956 - DECEMBER 1963.

CAPF KENNEDY, FLORIDA OCTOBER

SPEEDS LESS THAN 060 MPS

PC ( I CONSECUTIVE SUCCESSES IN J PERIODS )

	I																			
J	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
1	.986																			
2	.994	.978																		
3	.998	.984	.972																	
4	1.00	.990	.978	.966																
5	1.00	.994	.984	.970	.960															
6	1.00	.998	.990	.974	.964	.954														
7	1.00	1.00	.994	.978	.968	.958	.946													
8	1.00	1.00	.998	.982	.972	.962	.950	.938												
9	1.00	1.00	1.00	.986	.976	.966	.954	.942	.929											
10	1.00	1.00	1.00	.990	.982	.970	.958	.946	.931	.923										
11	1.00	1.00	1.00	.992	.986	.976	.962	.950	.933	.925	.917									
12	1.00	1.00	1.00	.994	.990	.982	.968	.954	.935	.927	.919	.911								
13	1.00	1.00	1.00	.996	.992	.986	.974	.960	.938	.929	.921	.913	.905							
14	1.00	1.00	1.00	.998	.994	.990	.980	.966	.942	.931	.923	.915	.907	.897						
15	1.00	1.00	1.00	1.00	.996	.992	.984	.972	.946	.935	.925	.917	.909	.899	.889					
16	1.00	1.00	1.00	1.00	.998	.994	.990	.978	.950	.940	.929	.919	.911	.901	.891	.881				
17	1.00	1.00	1.00	1.00	1.00	.996	.992	.984	.954	.944	.933	.923	.913	.903	.893	.883	.871			
18	1.00	1.00	1.00	1.00	1.00	.998	.994	.990	.958	.948	.938	.927	.917	.905	.895	.885	.873	.861		
19	1.00	1.00	1.00	1.00	1.00	1.00	.996	.992	.962	.952	.942	.931	.921	.909	.897	.887	.875	.863	.851	
20	1.00	1.00	1.00	1.00	1.00	1.00	.998	.994	.966	.956	.946	.935	.925	.913	.901	.889	.877	.865	.853	.841
21	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.996	.970	.960	.950	.940	.929	.917	.905	.893	.879	.867	.855	.843
22	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.998	.974	.964	.954	.944	.933	.921	.909	.897	.883	.869	.857	.845
23	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.978	.968	.958	.948	.938	.925	.913	.901	.887	.873	.859	.847
24	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.982	.972	.962	.952	.942	.929	.917	.905	.891	.877	.863	.849
25	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.986	.976	.966	.956	.946	.933	.921	.909	.895	.881	.867	.853
26	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.988	.980	.970	.960	.950	.938	.925	.913	.899	.885	.871	.857
27	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.992	.984	.974	.964	.954	.942	.929	.917	.903	.889	.875	.861
28	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.996	.988	.978	.968	.958	.948	.933	.921	.907	.893	.879	.865
29	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.997	.984	.972	.962	.952	.940	.925	.911	.897	.883	.869
30	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.998	.988	.978	.966	.954	.946	.931	.915	.901	.887	.873
31	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.992	.984	.972	.960	.950	.938	.921	.905	.891	.877	.863
32	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.996	.988	.978	.966	.954	.944	.927	.911	.895	.881	.867
33	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.992	.984	.972	.960	.948	.933	.917	.901	.885	.871	.857
34	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.994	.988	.974	.966	.954	.940	.923	.907	.891	.875	.859
35	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.992	.984	.972	.960	.946	.929	.913	.897	.881	.865	.849
36	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.996	.988	.978	.966	.952	.938	.919	.903	.887	.871	.855
37	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.992	.984	.972	.958	.944	.927	.909	.893	.877	.861	.845
38	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.996	.988	.978	.966	.950	.935	.917	.901	.885	.869	.853
39	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.992	.984	.972	.958	.942	.925	.907	.891	.875	.859	.843
40	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.996	.988	.978	.966	.950	.933	.915	.897	.881	.865	.849

TOTAL OBSERVATIONS 496

TABLE 10.11.a. P(W < W\*) I CONSECUTIVE LAUNCH OPPORTUNITIES IN J PERIODS (W\* = 60 M/SEC).

BASED ON MAXIMUM WIND SPEEDS IN THE 10-15 KM LAYER OVER CAPE KENNEDY, FLORIDA.

PERIOD OF RECORD JANUARY 1956 - DECEMBER 1963.

CAPE KENNEDY, FLORIDA OCTOBER  
SPEEDS LESS THAN 060 MPS

P ( I SUCCESSES IN J PERIODS )

	I																			
J	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
1	.986																			
2	.994	.978																		
3	.998	.988	.972																	
4	1.00	.994	.984	.966																
5	1.00	1.00	.990	.978	.960															
6	1.00	1.00	1.00	.986	.972	.954														
7	1.00	1.00	1.00	1.00	.980	.968	.946													
8	1.00	1.00	1.00	1.00	.998	.976	.962	.938												
9	1.00	1.00	1.00	1.00	1.00	.996	.970	.956	.929											
10	1.00	1.00	1.00	1.00	1.00	1.00	.994	.964	.948	.923										
11	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.992	.956	.942	.917									
12	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.988	.950	.935	.911								
13	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.984	.944	.929	.905							
14	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.980	.938	.923	.897						
15	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.976	.931	.917	.889					
16	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.972	.925	.911	.881				
17	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.968	.919	.905	.871			
18	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.962	.913	.897	.861		
19	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.956	.905	.889	.851	
20	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.948	.897	.881	.841
21	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.998	.940	.889	.873
22	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.996	.931	.881
23	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.994	.923
24	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.992
25	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
26	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
27	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
28	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
29	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
30	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
31	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
32	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
33	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
34	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
35	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
36	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
37	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
38	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
39	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
40	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00

TOTAL OBSERVATIONS 496

TABLE 10.11.b. P(W < W\*) I LAUNCH OPPORTUNITIES IN J PERIODS (W\* = 60 M/SEC).  
BASED ON MAXIMUM WIND SPEEDS IN THE 10-15 KM LAYER OVER CAPE KENNEDY, FLORIDA.  
PERIOD OF RECORD JANUARY 1956 - DECEMBER 1963.

CAPE KENNEDY, FLORIDA OCTOBER  
SPEEDS LESS THAN 065 MPS

PC ( 1 CONSECUTIVE SUCCESSES IN J PERIODS )

	I																			
J	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
1	.992																			
2	.998	.986																		
3	1.00	.993	.982																	
4	1.00	.994	.936	.978																
5	1.00	.996	.990	.982	.974															
6	1.00	.998	.994	.986	.978	.970														
7	1.00	1.00	.996	.990	.982	.974	.966													
8	1.00	1.00	.998	.994	.986	.978	.970	.960												
9	1.00	1.00	1.00	.996	.990	.982	.974	.964	.954											
10	1.00	1.00	1.00	.998	.974	.986	.978	.968	.958	.948										
11	1.00	1.00	1.00	1.00	.996	.990	.982	.972	.962	.952	.942									
12	1.00	1.00	1.00	1.00	.998	.994	.986	.976	.966	.956	.946	.935								
13	1.00	1.00	1.00	1.00	1.00	.996	.990	.980	.970	.960	.950	.940	.929							
14	1.00	1.00	1.00	1.00	1.00	.998	.994	.984	.974	.964	.954	.944	.933	.923						
15	1.00	1.00	1.00	1.00	1.00	1.00	.996	.988	.978	.968	.958	.948	.938	.927	.917					
16	1.00	1.00	1.00	1.00	1.00	1.00	.998	.992	.982	.972	.962	.952	.942	.931	.921	.911				
17	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.996	.986	.976	.966	.956	.946	.935	.925	.915	.903			
18	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.998	.992	.980	.970	.960	.950	.940	.929	.919	.907	.895		
19	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.996	.986	.974	.964	.954	.944	.933	.923	.911	.899	.887	
20	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.998	.992	.980	.968	.958	.948	.938	.927	.915	.903	.891	.879
21	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.996	.986	.974	.962	.952	.942	.931	.919	.907	.895	.883
22	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.998	.992	.980	.968	.956	.946	.935	.923	.911	.899	.887
23	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.996	.986	.974	.962	.950	.940	.927	.915	.903	.891
24	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.998	.992	.980	.968	.956	.944	.931	.919	.907	.895
25	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.996	.986	.974	.962	.950	.935	.923	.911	.899
26	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.998	.992	.980	.968	.956	.942	.927	.915	.903
27	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.996	.986	.974	.962	.948	.933	.919	.907
28	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.998	.992	.980	.968	.954	.940	.925	.911
29	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.996	.986	.974	.960	.946	.931	.917
30	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.998	.992	.980	.966	.952	.938	.923
31	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.996	.986	.972	.958	.944	.929
32	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.998	.992	.978	.964	.950	.935
33	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.996	.984	.970	.956	.942
34	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.998	.990	.976	.962	.948
35	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.994	.982	.968	.954	
36	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.996	.988	.974	.960	
37	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.998	.992	.980	.966	
38	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.994	.986	.972	
39	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.998	.990	.978	
40	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.994	.984

TOTAL OBSERVATIONS 496

TABLE 10.12. a. P(W < W\*) I CONSECUTIVE LAUNCH OPPORTUNITIES IN J PERIODS (W\* = 65 M/SEC).  
BASED ON MAXIMUM WIND SPEEDS IN THE 10-15 KM LAYER OVER CAPE KENNEDY, FLORIDA.  
PERIOD OF RECORD JANUARY 1956 - DECEMBER 1963.

CAPE KENNEDY, FLORIDA OCTOBER

SPEEDS LESS THAN 065 MPS

P ( I SUCCESSES IN J PERIODS )

	I																			
J	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
1	.992																			
2	.998	.986																		
3	1.00	.994	.982																	
4	1.00	.998	.992	.978																
5	1.00	1.00	.996	.990	.974															
6	1.00	1.00	1.00	.994	.988	.970														
7	1.00	1.00	1.00	1.00	.992	.986	.966													
8	1.00	1.00	1.00	1.00	1.00	.990	.984	.960												
9	1.00	1.00	1.00	1.00	1.00	1.00	.988	.980	.954											
10	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.986	.976	.948										
11	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.984	.972	.942									
12	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.982	.968	.925								
13	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.980	.964	.929							
14	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.978	.960	.923						
15	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.976	.956	.917					
16	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.974	.952	.911				
17	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.972	.948	.903			
18	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.970	.942	.895		
19	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.968	.935	.887	
20	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.966	.929	.879
21	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.962	.923
22	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.958
23	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
24	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
25	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
26	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
27	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
28	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
29	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
30	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
31	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
32	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
33	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
34	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
35	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
36	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
37	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
38	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
39	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
40	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00

TOTAL OBSERVATIONS 496

TABLE 10.12.b. P(W < W\*) I LAUNCH OPPORTUNITIES IN J PERIODS (W\* = 65 M/SEC).  
 BASED ON MAXIMUM WIND SPEEDS IN THE 10-15 KM LAYER OVER CAPE KENNEDY, FLORIDA.  
 PERIOD OF RECORD JANUARY 1956 - DECEMBER 1963.

CAPE KENNEDY, FLORIDA NOVEMBER  
SPEEDS LESS THAN 015 MP.

P( I CONSECUTIVE SUCCESSES IN J PERIODS )

	I																			
J	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
1	.031																			
2	.050	.013																		
3	.067	.023	.002																	
4	.081	.031	.004	.000																
5	.096	.040	.006	.000	.000															
6	.110	.048	.008	.000	.000	.000														
7	.125	.056	.010	.000	.000	.000	.000													
8	.140	.065	.013	.000	.000	.000	.000	.000												
9	.154	.073	.015	.000	.000	.000	.000	.000	.000											
10	.165	.081	.017	.000	.000	.000	.000	.000	.000	.000										
11	.173	.088	.019	.000	.000	.000	.000	.000	.000	.000	.000									
12	.181	.094	.019	.000	.000	.000	.000	.000	.000	.000	.000	.000								
13	.190	.100	.019	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000							
14	.198	.106	.019	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000						
15	.206	.113	.019	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000					
16	.215	.119	.019	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000				
17	.223	.125	.019	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000			
18	.233	.131	.019	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000		
19	.244	.138	.019	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	
20	.252	.144	.019	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
21	.260	.150	.019	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
22	.269	.154	.019	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
23	.277	.158	.019	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
24	.285	.163	.019	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
25	.294	.167	.019	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
26	.300	.171	.019	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
27	.306	.175	.019	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
28	.313	.179	.019	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
29	.319	.183	.019	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
30	.325	.185	.019	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
31	.331	.188	.019	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
32	.338	.190	.019	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
33	.342	.192	.019	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
34	.346	.192	.019	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
35	.350	.192	.019	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
36	.354	.192	.019	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
37	.356	.192	.019	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
38	.358	.192	.019	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
39	.359	.192	.019	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
40	.358	.192	.019	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000

TOTAL OBSERVATIONS 480

TABLE 11. 1. a. P(W < W\*) I CONSECUTIVE LAUNCH OPPORTUNITIES IN J PERIODS (W\* = 15 M/SEC).  
BASED ON MAXIMUM WIND SPEEDS IN THE 10-15 KM LAYER OVER CAPE KENNEDY, FLORIDA.  
PERIOD OF RECORD JANUARY 1956 - DECEMBER 1963.

CAPE KENNEDY, FLORIDA NOVEMBER  
SPEEDS LESS THAN 015 MPS

P ( I SUCCESSFUL IN J PERIODS )

	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	
1	.031																				
2	.050	.013																			
3	.067	.023	.002																		
4	.081	.033	.004	.000																	
5	.096	.042	.008	.000	.000																
6	.110	.050	.013	.000	.000	.000															
7	.125	.059	.017	.000	.000	.000	.000														
8	.140	.067	.021	.000	.000	.000	.000	.000													
9	.154	.075	.025	.000	.000	.000	.000	.000	.000												
10	.165	.085	.029	.000	.000	.000	.000	.000	.000	.000											
11	.173	.092	.035	.000	.000	.000	.000	.000	.000	.000	.000										
12	.181	.098	.040	.000	.000	.000	.000	.000	.000	.000	.000	.000									
13	.190	.104	.044	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000								
14	.198	.110	.046	.002	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000							
15	.206	.117	.048	.004	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000						
16	.215	.123	.050	.006	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000					
17	.223	.129	.052	.008	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000				
18	.233	.135	.054	.010	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000			
19	.244	.142	.056	.013	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000		
20	.252	.150	.058	.015	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	
21	.260	.154	.065	.017	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
22	.269	.158	.059	.021	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
23	.277	.163	.073	.025	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
24	.285	.167	.077	.029	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
25	.294	.171	.081	.033	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
26	.300	.175	.085	.038	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
27	.306	.179	.090	.042	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
28	.313	.183	.094	.046	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
29	.319	.185	.098	.050	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
30	.325	.188	.100	.054	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
31	.331	.190	.102	.058	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
32	.338	.192	.104	.063	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
33	.342	.194	.106	.067	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
34	.346	.194	.108	.071	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
35	.350	.194	.110	.075	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
36	.354	.194	.113	.079	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
37	.356	.196	.115	.083	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
38	.358	.198	.117	.088	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
39	.358	.202	.119	.090	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
40	.358	.204	.123	.092	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000

TOTAL OBSERVATIONS 480

TABLE 11. 1.b. P(W < W\*) I LAUNCH OPPORTUNITIES IN J PERIODS (W\* = 15 M/SEC).  
BASED ON MAXIMUM WIND SPEEDS IN THE 10-15 KM LAYER OVER CAPE KENNEDY, FLORIDA.  
PERIOD OF RECORD JANUARY 1956 - DECEMBER 1963.



CAPE KENNEDY, FLORIDA NOVEMBER  
SPEEDS LESS THAN 020 MPS

PC ( I CONSECUTIVE SUCCESSES IN J PERIODS )

	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
1	.100																			
2	.133	.065																		
3	.160	.081	.046																	
4	.183	.094	.052	.038																
5	.206	.113	.058	.042	.033															
6	.229	.127	.065	.046	.038	.029														
7	.250	.142	.071	.050	.042	.033	.025													
8	.273	.156	.077	.054	.046	.038	.027	.023												
9	.294	.173	.083	.058	.050	.042	.029	.025	.021											
10	.315	.188	.090	.063	.054	.046	.031	.027	.023	.019										
11	.333	.202	.094	.067	.058	.050	.033	.029	.025	.021	.017									
12	.350	.215	.098	.069	.063	.054	.035	.031	.027	.023	.019	.015								
13	.367	.227	.102	.071	.065	.058	.038	.033	.029	.025	.021	.017	.013							
14	.383	.240	.106	.073	.067	.060	.040	.035	.031	.027	.023	.019	.015	.010						
15	.400	.252	.110	.075	.069	.063	.042	.038	.033	.029	.025	.021	.017	.013	.008					
16	.417	.267	.115	.077	.071	.065	.044	.040	.035	.031	.027	.023	.019	.015	.010	.006				
17	.433	.281	.121	.079	.073	.067	.046	.042	.038	.033	.029	.025	.021	.017	.013	.008	.004			
18	.450	.294	.127	.083	.075	.069	.048	.044	.040	.035	.031	.027	.023	.019	.015	.010	.006	.002		
19	.465	.317	.133	.088	.079	.071	.050	.046	.042	.038	.033	.029	.025	.021	.017	.013	.008	.004	.000	
20	.479	.325	.140	.092	.083	.075	.052	.048	.044	.040	.035	.031	.027	.023	.019	.015	.010	.006	.000	.000
21	.494	.338	.146	.096	.088	.079	.054	.050	.046	.042	.038	.033	.029	.025	.021	.017	.013	.008	.000	.000
22	.508	.350	.152	.100	.092	.083	.056	.052	.048	.044	.040	.035	.031	.027	.023	.019	.015	.010	.000	.000
23	.523	.367	.159	.104	.096	.088	.058	.054	.050	.046	.042	.038	.033	.029	.025	.021	.017	.013	.000	.000
24	.535	.371	.165	.108	.100	.092	.060	.056	.052	.048	.044	.040	.035	.031	.027	.023	.019	.015	.000	.000
25	.548	.373	.171	.113	.104	.096	.063	.058	.054	.050	.046	.042	.038	.033	.029	.025	.021	.017	.000	.000
26	.559	.388	.175	.117	.108	.100	.065	.060	.056	.052	.048	.044	.040	.035	.031	.027	.023	.019	.000	.000
27	.563	.396	.179	.119	.113	.104	.067	.063	.058	.054	.050	.046	.042	.038	.033	.029	.025	.021	.000	.000
28	.579	.404	.183	.121	.115	.108	.069	.065	.060	.056	.052	.048	.044	.040	.035	.031	.027	.023	.000	.000
29	.590	.413	.188	.123	.117	.110	.071	.067	.063	.058	.054	.050	.046	.042	.038	.033	.029	.025	.000	.000
30	.598	.421	.192	.125	.119	.113	.071	.069	.065	.060	.056	.052	.048	.044	.040	.035	.031	.027	.000	.000
31	.604	.423	.196	.127	.121	.115	.071	.069	.067	.063	.058	.054	.050	.046	.042	.038	.033	.029	.000	.000
32	.615	.438	.200	.129	.123	.117	.071	.069	.067	.065	.060	.056	.052	.048	.044	.040	.035	.031	.000	.000
33	.623	.444	.204	.131	.125	.119	.071	.069	.067	.065	.063	.058	.054	.050	.046	.042	.038	.033	.000	.000
34	.627	.452	.208	.133	.127	.121	.071	.069	.067	.065	.063	.060	.056	.052	.048	.044	.040	.035	.000	.000
35	.633	.458	.210	.135	.129	.123	.071	.069	.067	.065	.063	.060	.058	.054	.050	.046	.042	.038	.000	.000
36	.647	.465	.213	.138	.131	.125	.071	.069	.067	.065	.063	.060	.058	.056	.052	.048	.044	.040	.000	.000
37	.646	.471	.215	.140	.133	.127	.071	.069	.067	.065	.063	.060	.058	.056	.054	.050	.046	.042	.000	.000
38	.652	.475	.217	.142	.135	.129	.071	.069	.067	.065	.063	.060	.058	.056	.054	.052	.048	.044	.000	.000
39	.658	.479	.219	.144	.138	.131	.071	.069	.067	.065	.063	.060	.058	.056	.054	.052	.050	.046	.000	.000
40	.665	.483	.221	.146	.140	.133	.071	.069	.067	.065	.063	.060	.058	.056	.054	.052	.050	.048	.000	.000

TOTAL OBSERVATIONS 490

TABLE 11. 2.a. P(W < W0) I CONSECUTIVE LAUNCH OPPORTUNITIES IN J PERIODS (W0 = 20 M/SEC).  
BASED ON MAXIMUM WIND SPEEDS IN THE 10-15 KM LAYER OVER CAPE KENNEDY, FLORIDA.  
PERIOD OF RECORD JANUARY 1956 - DECEMBER 1963.

CAPF KENNEDY . FLORIDA NOVEMBER  
SPEEDS LESS THAN 020 MPS

P ( I SUCCESSES IN J PERIODS )

J	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
1	.100																			
2	.133	.065																		
3	.160	.088	.046																	
4	.183	.108	.058	.038																
5	.206	.125	.073	.044	.033															
6	.229	.142	.085	.052	.038	.029														
7	.250	.160	.098	.060	.042	.033	.025													
8	.273	.177	.113	.069	.046	.038	.027	.023												
9	.294	.196	.127	.077	.050	.042	.029	.025	.021											
10	.315	.213	.142	.085	.054	.046	.031	.027	.023	.019										
11	.333	.229	.154	.094	.058	.050	.033	.029	.025	.021	.017									
12	.350	.246	.167	.100	.063	.054	.035	.031	.027	.023	.019	.015								
13	.367	.263	.179	.106	.065	.058	.038	.033	.029	.025	.021	.017	.013							
14	.383	.277	.192	.113	.067	.060	.040	.035	.031	.027	.023	.019	.015	.010						
15	.400	.294	.204	.119	.069	.063	.042	.038	.033	.029	.025	.021	.017	.013	.008					
16	.417	.310	.219	.125	.071	.065	.044	.040	.035	.031	.027	.023	.019	.015	.010	.006				
17	.433	.327	.233	.133	.073	.067	.046	.042	.038	.033	.029	.025	.021	.017	.013	.008	.004			
18	.450	.344	.248	.142	.077	.069	.048	.044	.040	.035	.031	.027	.023	.019	.015	.010	.006	.002		
19	.465	.363	.263	.150	.081	.073	.050	.046	.042	.038	.033	.029	.025	.021	.017	.013	.008	.004	.000	
20	.479	.377	.281	.158	.085	.077	.054	.048	.044	.040	.035	.031	.027	.023	.019	.015	.010	.006	.000	.000
21	.494	.390	.298	.171	.090	.081	.058	.050	.046	.042	.038	.033	.029	.025	.021	.017	.013	.008	.000	.000
22	.508	.402	.308	.188	.096	.085	.063	.052	.048	.044	.040	.035	.031	.027	.023	.019	.015	.010	.000	.000
23	.521	.415	.319	.196	.110	.090	.067	.054	.050	.046	.042	.038	.033	.029	.025	.021	.017	.013	.000	.000
24	.535	.427	.329	.202	.119	.102	.071	.056	.052	.048	.044	.040	.035	.031	.027	.023	.019	.015	.000	.000
25	.548	.438	.340	.208	.125	.110	.081	.058	.054	.050	.046	.042	.038	.033	.029	.025	.021	.017	.000	.000
26	.558	.450	.348	.215	.131	.119	.088	.065	.056	.052	.048	.044	.040	.035	.031	.027	.023	.019	.000	.000
27	.569	.460	.358	.219	.138	.125	.096	.069	.060	.054	.050	.046	.042	.038	.033	.029	.025	.021	.000	.000
28	.579	.471	.367	.225	.142	.131	.100	.075	.065	.056	.052	.048	.044	.040	.035	.031	.027	.023	.000	.000
29	.590	.481	.375	.229	.146	.135	.104	.081	.069	.058	.054	.050	.046	.042	.038	.033	.029	.025	.000	.000
30	.598	.492	.383	.233	.150	.140	.106	.088	.073	.060	.056	.052	.048	.044	.040	.035	.031	.027	.000	.000
31	.606	.502	.392	.238	.154	.144	.108	.092	.077	.063	.058	.054	.050	.046	.042	.038	.033	.029	.000	.000
32	.615	.513	.400	.242	.158	.148	.110	.096	.079	.065	.060	.056	.052	.048	.044	.040	.035	.031	.000	.000
33	.623	.521	.408	.246	.163	.152	.113	.100	.081	.066	.063	.058	.054	.050	.046	.042	.038	.033	.000	.000
34	.627	.531	.415	.250	.167	.156	.115	.102	.083	.065	.063	.060	.056	.052	.048	.044	.040	.035	.000	.000
35	.633	.540	.423	.252	.171	.160	.117	.104	.083	.065	.063	.060	.058	.054	.050	.046	.042	.038	.000	.000
36	.640	.546	.431	.256	.175	.165	.119	.106	.083	.065	.063	.060	.058	.056	.052	.048	.044	.040	.000	.000
37	.646	.548	.440	.260	.181	.169	.121	.108	.083	.065	.063	.060	.058	.056	.054	.050	.046	.042	.000	.000
38	.652	.550	.444	.265	.188	.175	.123	.110	.083	.065	.063	.060	.058	.056	.054	.052	.048	.044	.000	.000
39	.658	.552	.446	.269	.194	.181	.127	.113	.083	.065	.063	.060	.058	.056	.054	.052	.050	.046	.000	.000
40	.665	.554	.448	.271	.200	.185	.133	.115	.083	.065	.063	.060	.058	.056	.054	.052	.050	.048	.000	.000

TOTAL OBSERVATIONS 480

TABLE 11. 2b. P(W < W\*) I LAUNCH OPPORTUNITIES IN J PERIODS (W\* = 20 M/SEC).  
BASED ON MAXIMUM WIND SPEEDS IN THE 10-15 KM AYER OVER CAPE KENNEDY, FLORIDA.  
PERIOD OF RECORD JANUARY 1956 - DECEMBER 1963.

CAPE KENNEDY, FLORIDA NOVEMBER  
SPEEDS LESS THAN 025 MPS

PC ( I CONSECUTIVE SUCCESSES IN J PERIODS )

	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	
1	.160																				
2	.204	.117																			
3	.240	.144	.090																		
4	.275	.171	.108	.069																	
5	.310	.200	.127	.081	.054																
6	.344	.227	.146	.094	.065	.044															
7	.375	.252	.165	.106	.075	.054	.033														
8	.406	.277	.183	.119	.085	.065	.040	.027													
9	.433	.300	.204	.131	.096	.075	.046	.029	.025												
10	.456	.323	.225	.146	.106	.085	.052	.031	.027	.023											
11	.479	.344	.244	.160	.117	.096	.058	.033	.029	.025	.021										
12	.500	.365	.260	.173	.127	.106	.065	.035	.031	.027	.023	.019									
13	.519	.385	.277	.183	.135	.117	.071	.038	.033	.029	.025	.021	.017								
14	.540	.406	.296	.194	.142	.125	.077	.040	.035	.031	.027	.023	.019	.015							
15	.560	.427	.315	.206	.148	.131	.081	.042	.038	.033	.029	.025	.021	.017	.013						
16	.579	.448	.333	.219	.156	.138	.085	.044	.040	.035	.031	.027	.023	.019	.015	.010					
17	.598	.469	.352	.231	.165	.146	.090	.046	.042	.038	.033	.029	.025	.021	.017	.013	.008				
18	.617	.485	.371	.244	.173	.154	.096	.048	.044	.040	.035	.031	.027	.023	.019	.015	.010	.006			
19	.633	.502	.390	.256	.181	.163	.102	.052	.046	.042	.038	.033	.029	.025	.021	.017	.013	.008	.004		
20	.650	.519	.406	.269	.190	.171	.108	.056	.050	.044	.040	.035	.031	.027	.023	.019	.015	.010	.006	.002	
21	.667	.533	.423	.281	.196	.179	.115	.060	.054	.048	.042	.038	.033	.029	.025	.021	.017	.013	.008	.004	
22	.683	.548	.440	.292	.206	.188	.121	.065	.058	.052	.044	.040	.035	.031	.027	.023	.019	.015	.010	.006	
23	.698	.563	.454	.302	.215	.196	.127	.069	.063	.056	.046	.042	.038	.033	.029	.025	.021	.017	.013	.008	
24	.710	.575	.467	.313	.223	.204	.133	.073	.067	.060	.048	.044	.040	.035	.031	.027	.023	.019	.015	.010	
25	.723	.588	.477	.323	.231	.213	.140	.077	.071	.065	.050	.046	.042	.038	.033	.029	.025	.021	.017	.013	
26	.735	.598	.488	.331	.240	.221	.146	.081	.075	.069	.052	.048	.044	.040	.035	.031	.027	.023	.019	.015	
27	.748	.608	.498	.340	.246	.229	.152	.085	.079	.073	.054	.050	.046	.042	.038	.033	.029	.025	.021	.017	
28	.756	.619	.508	.348	.252	.235	.158	.090	.083	.077	.056	.052	.048	.044	.040	.035	.031	.027	.023	.019	
29	.760	.629	.519	.356	.258	.242	.163	.094	.088	.081	.058	.054	.050	.046	.042	.038	.033	.029	.025	.021	
30	.767	.638	.529	.365	.265	.248	.167	.096	.092	.085	.060	.056	.052	.048	.044	.040	.035	.031	.027	.023	
31	.769	.646	.540	.373	.271	.254	.171	.098	.094	.090	.063	.058	.054	.050	.046	.042	.038	.033	.029	.025	
32	.773	.652	.550	.381	.277	.260	.175	.100	.096	.092	.065	.060	.056	.052	.048	.044	.040	.035	.031	.027	
33	.777	.660	.560	.390	.283	.267	.179	.102	.098	.094	.065	.063	.058	.054	.050	.046	.042	.038	.033	.029	
34	.781	.669	.573	.398	.290	.273	.183	.104	.100	.096	.065	.063	.060	.056	.052	.048	.044	.040	.035	.031	
35	.785	.677	.583	.408	.296	.279	.188	.106	.102	.098	.065	.063	.060	.058	.054	.050	.046	.042	.038	.033	
36	.790	.685	.594	.419	.304	.285	.192	.108	.104	.100	.065	.063	.060	.058	.056	.052	.048	.044	.040	.035	
37	.792	.694	.604	.429	.313	.292	.196	.110	.106	.102	.065	.063	.060	.058	.056	.054	.050	.046	.042	.038	
38	.794	.702	.613	.440	.321	.298	.200	.113	.108	.104	.065	.063	.060	.058	.056	.054	.052	.048	.044	.040	
39	.796	.710	.621	.450	.329	.304	.204	.115	.110	.106	.065	.063	.060	.058	.056	.054	.052	.050	.046	.042	
40	.798	.719	.629	.460	.338	.310	.208	.117	.113	.108	.065	.063	.060	.058	.056	.054	.052	.050	.048	.044	

TOTAL OBSERVATIONS 490

TABLE 11. 3. P(W < W<sub>0</sub>) I CONSECUTIVE LAUNCH OPPORTUNITIES IN J PERIODS (W<sub>0</sub> = .45 M/SEC).  
BASED ON MAXIMUM WIND SPEEDS IN THE 10-15 KM LAYER OVER CAPE KENNEDY, FLORIDA.  
PERIOD OF RECORD JANUARY 1956 - DECEMBER 1963.

CAPE KENNEDY, FLORIDA NOVEMBER  
SPEEDS LESS THAN 025 M/S

P ( I SUCCESSSES IN J PERIODS )

	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
1	.160																			
2	.204	.117																		
3	.247	.150	.090																	
4	.275	.181	.113	.069																
5	.310	.210	.135	.085	.054															
6	.344	.240	.154	.104	.067	.044														
7	.375	.269	.175	.121	.081	.054	.033													
8	.406	.294	.200	.140	.096	.065	.040	.027												
9	.433	.323	.221	.163	.113	.075	.044	.029	.025											
10	.456	.350	.246	.183	.131	.088	.052	.031	.027	.023										
11	.479	.373	.267	.208	.150	.100	.058	.033	.029	.024	.021									
12	.500	.398	.285	.231	.171	.113	.065	.035	.031	.027	.023	.019								
13	.519	.423	.306	.252	.190	.127	.071	.038	.033	.029	.025	.021	.017							
14	.540	.444	.333	.273	.208	.138	.079	.040	.035	.031	.027	.023	.019	.015						
15	.560	.465	.356	.300	.225	.150	.083	.044	.038	.033	.029	.025	.021	.017	.013					
16	.579	.485	.379	.325	.246	.163	.090	.046	.042	.035	.031	.027	.023	.019	.015	.010				
17	.598	.502	.402	.350	.267	.179	.096	.050	.044	.040	.033	.029	.025	.021	.017	.013	.008			
18	.617	.519	.421	.373	.290	.196	.108	.054	.048	.042	.038	.031	.027	.023	.019	.015	.010	.006		
19	.633	.538	.440	.392	.308	.219	.119	.065	.052	.046	.040	.035	.029	.025	.021	.017	.013	.008	.004	
20	.650	.552	.460	.413	.323	.238	.138	.073	.058	.050	.044	.038	.033	.027	.023	.019	.015	.010	.006	.002
21	.667	.567	.475	.435	.342	.252	.152	.090	.065	.054	.048	.042	.035	.031	.025	.021	.017	.013	.008	.004
22	.683	.581	.490	.452	.360	.273	.163	.104	.077	.058	.052	.046	.038	.033	.029	.023	.019	.015	.010	.006
23	.698	.596	.504	.469	.373	.294	.179	.117	.090	.067	.056	.050	.040	.035	.031	.027	.021	.017	.013	.008
24	.710	.610	.519	.483	.388	.308	.196	.135	.102	.075	.063	.054	.044	.038	.033	.029	.025	.019	.015	.010
25	.723	.621	.535	.498	.398	.327	.206	.154	.121	.083	.071	.058	.048	.042	.035	.031	.027	.023	.017	.013
26	.735	.631	.548	.515	.408	.342	.221	.169	.138	.098	.079	.065	.052	.046	.038	.033	.029	.025	.021	.015
27	.748	.642	.560	.527	.421	.356	.231	.185	.152	.110	.092	.071	.056	.049	.040	.035	.031	.027	.023	.019
28	.756	.656	.573	.540	.429	.369	.244	.198	.169	.123	.102	.079	.060	.054	.044	.038	.033	.029	.025	.021
29	.760	.669	.590	.552	.438	.379	.252	.213	.181	.140	.113	.088	.067	.058	.048	.042	.035	.031	.027	.023
30	.765	.675	.610	.565	.446	.388	.263	.223	.196	.152	.127	.096	.073	.065	.052	.046	.038	.033	.029	.025
31	.769	.679	.623	.585	.454	.396	.271	.235	.206	.167	.140	.106	.079	.071	.058	.050	.042	.035	.031	.027
32	.773	.685	.635	.600	.469	.404	.279	.246	.219	.177	.154	.117	.085	.077	.065	.054	.046	.040	.033	.029
33	.777	.692	.648	.613	.481	.417	.288	.256	.229	.190	.165	.129	.092	.083	.071	.060	.050	.044	.035	.031
34	.781	.698	.658	.625	.492	.429	.293	.267	.240	.198	.177	.140	.098	.090	.077	.067	.054	.048	.042	.033
35	.785	.704	.669	.638	.502	.440	.308	.279	.250	.206	.185	.152	.102	.096	.083	.073	.058	.052	.046	.035
36	.790	.710	.677	.652	.513	.452	.317	.292	.263	.215	.194	.160	.108	.100	.090	.079	.063	.056	.050	.038
37	.792	.719	.685	.663	.527	.465	.325	.302	.275	.225	.202	.169	.115	.104	.094	.085	.067	.060	.054	.042
38	.794	.723	.698	.671	.538	.481	.333	.313	.285	.235	.213	.177	.121	.108	.098	.090	.071	.065	.058	.046
39	.796	.727	.706	.683	.546	.496	.348	.323	.296	.244	.223	.188	.127	.113	.102	.094	.073	.069	.063	.050
40	.798	.731	.713	.694	.556	.506	.365	.333	.308	.257	.231	.198	.135	.117	.106	.098	.075	.071	.067	.054

TOTAL OBSERVATIONS 480

TABLE 11. 3.b. P(W < W0) I LAUNCH OPPORTUNITIES IN J PERIODS (W0 = 25 M/SEC).  
BASED ON MAXIMUM WIND SPEEDS IN THE 10-15 KM LAYER OVER CAPE KENNEDY, FLORIDA.

PERIOD OF RECORD JANUARY 1963 - DECEMBER 1963.

CAPE KENNEDY, FLORIDA NOVEMBER  
SPEEDS LESS THAN 030 MPS

PC ( I CONSECUTIVE SUCCESSSES IN J PERIODS )

	I																			
J	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
1	.296																			
2	.375	.210																		
3	.442	.258	.158																	
4	.506	.306	.194	.121																
5	.563	.352	.229	.152	.088															
6	.608	.396	.267	.183	.108	.065														
7	.644	.438	.300	.217	.129	.075	.054													
8	.673	.467	.333	.250	.152	.085	.065	.044												
9	.700	.499	.360	.283	.175	.098	.075	.052	.035											
10	.721	.527	.388	.313	.198	.110	.088	.060	.042	.029										
11	.744	.552	.413	.342	.217	.123	.100	.069	.048	.033	.025									
12	.765	.577	.438	.371	.238	.131	.113	.077	.054	.038	.027	.023								
13	.788	.602	.460	.398	.256	.142	.121	.085	.060	.042	.029	.025	.021							
14	.806	.631	.483	.425	.275	.152	.131	.090	.067	.044	.031	.027	.023	.019						
15	.823	.656	.510	.450	.294	.163	.142	.096	.069	.050	.033	.029	.025	.021	.017					
16	.840	.681	.538	.477	.313	.173	.152	.102	.073	.052	.035	.031	.027	.023	.019	.015				
17	.854	.704	.565	.504	.331	.183	.163	.108	.077	.054	.038	.033	.029	.025	.021	.017	.013			
18	.869	.723	.592	.531	.350	.194	.173	.115	.081	.060	.042	.035	.031	.027	.023	.019	.015	.010		
19	.879	.742	.617	.558	.369	.204	.183	.121	.085	.065	.046	.040	.033	.029	.025	.021	.017	.013	.008	
20	.890	.758	.638	.585	.388	.215	.194	.127	.090	.069	.050	.044	.038	.031	.027	.023	.019	.015	.010	.006
21	.900	.773	.658	.610	.406	.225	.204	.133	.094	.073	.054	.048	.042	.035	.029	.025	.021	.017	.013	.008
22	.908	.788	.679	.631	.425	.235	.215	.140	.098	.077	.058	.052	.046	.040	.033	.027	.023	.019	.015	.010
23	.917	.800	.698	.652	.442	.246	.225	.146	.102	.081	.063	.056	.050	.044	.038	.031	.025	.021	.017	.013
24	.925	.813	.715	.673	.458	.256	.235	.154	.106	.085	.067	.060	.054	.048	.042	.035	.029	.023	.019	.015
25	.931	.823	.731	.690	.475	.267	.246	.163	.113	.090	.071	.065	.058	.052	.046	.040	.033	.027	.021	.017
26	.935	.833	.748	.706	.490	.277	.256	.171	.119	.096	.075	.069	.063	.056	.050	.044	.038	.031	.025	.019
27	.940	.844	.763	.723	.502	.285	.267	.179	.125	.102	.081	.073	.067	.060	.054	.048	.042	.035	.029	.023
28	.940	.852	.777	.740	.515	.294	.275	.188	.131	.108	.088	.079	.071	.065	.058	.052	.046	.040	.033	.027
29	.940	.860	.792	.754	.527	.302	.283	.194	.138	.115	.094	.085	.077	.069	.063	.056	.050	.044	.038	.031
30	.940	.865	.804	.769	.540	.310	.292	.200	.142	.121	.100	.092	.083	.075	.067	.060	.054	.048	.042	.035
31	.940	.869	.817	.783	.552	.319	.300	.206	.146	.125	.106	.098	.090	.081	.073	.065	.058	.052	.046	.040
32	.940	.873	.825	.796	.565	.327	.308	.213	.150	.129	.110	.104	.096	.088	.079	.071	.063	.056	.050	.044
33	.940	.877	.833	.808	.577	.335	.317	.219	.154	.133	.115	.108	.102	.094	.085	.077	.069	.060	.054	.048
34	.940	.881	.840	.819	.590	.344	.325	.225	.158	.138	.119	.113	.106	.100	.092	.083	.075	.067	.058	.052
35	.940	.885	.844	.827	.602	.352	.333	.231	.163	.142	.123	.117	.110	.104	.098	.090	.081	.073	.065	.056
36	.940	.890	.848	.835	.615	.360	.342	.238	.167	.146	.127	.121	.115	.108	.102	.096	.088	.079	.071	.060
37	.940	.894	.852	.840	.627	.369	.350	.244	.171	.150	.131	.125	.119	.113	.106	.100	.094	.085	.077	.065
38	.940	.896	.856	.844	.638	.377	.358	.250	.175	.154	.135	.129	.123	.117	.110	.104	.098	.092	.083	.069
39	.940	.896	.860	.848	.648	.385	.367	.256	.179	.158	.140	.133	.127	.121	.115	.108	.102	.096	.090	.073
40	.940	.896	.863	.852	.660	.394	.375	.263	.183	.163	.144	.138	.131	.125	.119	.113	.106	.100	.094	.077

TOTAL OBSERVATIONS 480

TABLE 11. 4. a. P(W < W<sub>0</sub>) I CONSECUTIVE LAUNCH OPPORTUNITIES IN J PERIODS (W<sub>0</sub> = 30 M/SEC).  
BASED ON MAXIMUM WIND SPEEDS IN THE 10-15 KM LAYER OVER CAPE KENNEDY, FLORIDA.  
PERIOD OF RECORD JANUARY 1956 - DECEMBER 1963.

CAPE KENNEDY, FLORIDA - DECEMBER

SPEEDS LESS THAN 30 KPH

P ( I SUCCESSFUL I J PERIODS )

	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
1	.296																			
2	.375	.217																		
3	.442	.271	.154																	
4	.506	.319	.217	.121																
5	.563	.371	.248	.171	.088															
6	.608	.425	.292	.204	.127	.065														
7	.644	.469	.342	.246	.154	.085	.054													
8	.673	.504	.378	.292	.198	.106	.069	.044												
9	.700	.535	.425	.335	.240	.138	.084	.052	.035											
10	.721	.569	.458	.367	.285	.171	.113	.063	.042	.029										
11	.744	.594	.476	.392	.321	.210	.140	.081	.050	.033	.025									
12	.765	.621	.525	.425	.344	.246	.175	.096	.067	.040	.027	.023								
13	.798	.644	.554	.456	.373	.269	.206	.121	.079	.054	.029	.025	.021							
14	.826	.677	.579	.488	.402	.298	.227	.144	.098	.067	.038	.027	.023	.019						
15	.823	.704	.610	.515	.431	.327	.250	.163	.113	.085	.044	.033	.025	.021	.017					
16	.840	.725	.648	.548	.456	.356	.275	.181	.129	.098	.056	.040	.029	.023	.019	.015				
17	.854	.746	.667	.596	.485	.381	.300	.206	.144	.113	.069	.048	.035	.025	.021	.017	.013			
18	.869	.767	.683	.623	.533	.408	.321	.229	.167	.125	.085	.052	.044	.029	.023	.019	.015	.010		
19	.879	.792	.700	.646	.554	.463	.344	.250	.183	.148	.100	.063	.048	.038	.025	.021	.017	.01	.008	
20	.890	.810	.723	.665	.575	.488	.396	.273	.200	.160	.127	.073	.056	.042	.031	.023	.019	.015	.010	.006
21	.900	.829	.742	.685	.596	.510	.419	.329	.219	.173	.138	.102	.065	.048	.033	.029	.021	.017	.013	.008
22	.908	.844	.760	.706	.615	.535	.438	.352	.273	.188	.148	.117	.088	.054	.038	.031	.027	.019	.015	.010
23	.917	.858	.779	.725	.635	.556	.460	.371	.298	.235	.160	.129	.102	.073	.042	.035	.029	.025	.017	.013
24	.925	.867	.794	.748	.652	.579	.477	.394	.321	.256	.204	.142	.113	.085	.058	.040	.033	.027	.023	.015
25	.931	.877	.810	.765	.675	.596	.500	.410	.350	.273	.225	.181	.123	.094	.071	.054	.038	.031	.025	.021
26	.935	.888	.827	.779	.690	.621	.515	.435	.371	.298	.242	.202	.156	.102	.079	.067	.050	.035	.029	.023
27	.940	.894	.846	.796	.702	.638	.538	.452	.396	.315	.271	.219	.173	.129	.088	.075	.063	.046	.033	.027
28	.940	.904	.858	.817	.717	.650	.554	.475	.413	.340	.288	.248	.185	.146	.108	.083	.071	.058	.042	.031
29	.940	.906	.877	.827	.740	.665	.565	.496	.433	.356	.310	.263	.213	.158	.125	.100	.079	.067	.054	.038
30	.940	.908	.881	.850	.752	.688	.577	.508	.456	.373	.327	.285	.223	.188	.138	.115	.094	.075	.063	.048
31	.940	.910	.883	.858	.779	.698	.600	.523	.471	.394	.342	.300	.242	.204	.163	.127	.106	.088	.071	.056
32	.940	.913	.885	.865	.796	.719	.608	.548	.490	.406	.363	.313	.254	.223	.181	.150	.117	.100	.081	.065
33	.940	.915	.888	.871	.810	.733	.623	.556	.521	.423	.375	.329	.265	.238	.198	.169	.135	.110	.092	.075
34	.940	.917	.890	.875	.823	.748	.635	.567	.531	.458	.388	.342	.277	.248	.215	.183	.152	.127	.100	.085
35	.940	.919	.892	.879	.833	.758	.630	.579	.540	.473	.421	.354	.288	.258	.227	.202	.163	.144	.113	.094
36	.940	.919	.896	.883	.844	.769	.658	.596	.550	.481	.438	.390	.296	.269	.240	.215	.177	.154	.125	.106
37	.940	.919	.896	.890	.852	.783	.667	.606	.563	.494	.446	.410	.327	.277	.252	.227	.188	.169	.135	.115
38	.940	.919	.896	.890	.863	.794	.683	.613	.571	.508	.458	.421	.348	.306	.260	.242	.198	.179	.150	.123
39	.940	.919	.896	.890	.865	.808	.692	.633	.575	.521	.473	.435	.358	.329	.285	.250	.215	.188	.165	.131
40	.940	.919	.896	.890	.867	.815	.704	.644	.594	.525	.490	.452	.373	.342	.306	.271	.223	.204	.175	.142

TOTAL OBSERVATIONS 480

TABLE 11. 4.b. P(W < W\*) I LAUNCH OPPORTUNITIES IN J PERIODS (W\* = 30 M/SEC).  
BASED ON MAXIMUM WIND SPEEDS IN THE 10-15 KM LAYER OVER CAPE KENNEDY, FLORIDA.

PERIOD OF RECORD JANUARY 1956 - DECEMBER 1963.

CAPE KENNEDY, FLORIDA NOVEMBER  
SPEEDS LESS THAN 035 MPS

PC ( I CONSECUTIVE SUCCESSES IN J PERIODS )

	I																			
J	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
1	.460																			
2	.565	.352																		
3	.644	.433	.269																	
4	.706	.515	.333	.204																
5	.748	.583	.398	.248	.163															
6	.779	.640	.463	.292	.200	.127														
7	.806	.677	.515	.335	.238	.156	.102													
8	.829	.708	.558	.377	.275	.185	.121	.085												
9	.846	.740	.594	.413	.310	.215	.140	.104	.069											
10	.858	.760	.627	.440	.344	.242	.158	.123	.083	.054										
11	.873	.775	.658	.467	.371	.267	.177	.142	.098	.069	.046									
12	.885	.790	.695	.492	.398	.290	.194	.160	.113	.081	.058	.033								
13	.900	.802	.704	.519	.423	.313	.208	.177	.127	.094	.071	.042	.025							
14	.913	.815	.723	.546	.448	.333	.225	.192	.140	.106	.083	.050	.029	.021						
15	.925	.827	.740	.569	.473	.356	.242	.208	.150	.117	.096	.058	.033	.023	.019					
16	.933	.840	.754	.594	.498	.379	.258	.225	.163	.125	.106	.067	.038	.025	.021	.017				
17	.942	.852	.767	.619	.525	.402	.275	.244	.175	.135	.115	.073	.042	.027	.023	.019	.015			
18	.950	.863	.779	.640	.552	.425	.292	.260	.168	.146	.125	.077	.046	.029	.025	.021	.017	.013		
19	.958	.873	.792	.658	.579	.448	.308	.277	.200	.154	.135	.083	.048	.031	.027	.023	.019	.015	.010	
20	.967	.883	.804	.677	.602	.471	.325	.294	.213	.167	.146	.090	.052	.033	.029	.025	.021	.017	.013	.008
21	.975	.894	.817	.694	.623	.494	.342	.310	.225	.177	.156	.096	.056	.038	.031	.027	.023	.019	.015	.010
22	.983	.904	.827	.710	.644	.513	.358	.327	.238	.188	.167	.102	.060	.042	.035	.029	.025	.021	.017	.013
23	.992	.915	.838	.727	.660	.529	.375	.344	.250	.198	.177	.108	.065	.046	.040	.033	.027	.023	.019	.015
24	.998	.923	.848	.744	.677	.546	.388	.360	.263	.208	.188	.117	.069	.050	.044	.038	.031	.025	.021	.017
25	1.00	.931	.858	.758	.694	.560	.398	.377	.275	.219	.198	.125	.075	.054	.048	.042	.035	.029	.023	.019
26	1.00	.938	.869	.773	.708	.575	.408	.390	.288	.220	.208	.133	.081	.060	.052	.046	.040	.033	.027	.021
27	1.00	.942	.879	.788	.723	.588	.419	.400	.300	.240	.219	.142	.088	.067	.058	.050	.044	.038	.031	.025
28	1.00	.944	.888	.800	.738	.600	.427	.410	.310	.250	.229	.150	.094	.073	.065	.056	.048	.042	.035	.029
29	1.00	.946	.894	.813	.752	.613	.435	.419	.321	.260	.240	.158	.100	.079	.071	.063	.054	.046	.040	.033
30	1.00	.948	.898	.823	.765	.625	.444	.427	.329	.269	.250	.167	.106	.085	.077	.069	.060	.052	.044	.038
31	1.00	.950	.902	.831	.777	.638	.452	.435	.338	.275	.260	.175	.113	.092	.083	.075	.067	.058	.050	.042
32	1.00	.952	.904	.838	.788	.650	.460	.444	.346	.281	.267	.183	.119	.098	.090	.081	.073	.065	.056	.048
33	1.00	.954	.906	.844	.798	.660	.469	.452	.354	.288	.273	.190	.125	.104	.096	.088	.079	.071	.063	.054
34	1.00	.956	.908	.848	.808	.669	.477	.460	.363	.294	.279	.194	.129	.110	.102	.094	.085	.077	.069	.060
35	1.00	.958	.910	.850	.817	.677	.483	.469	.371	.300	.285	.198	.133	.115	.108	.100	.092	.083	.075	.067
36	1.00	.960	.913	.852	.823	.685	.490	.477	.379	.306	.292	.202	.138	.119	.113	.106	.098	.090	.081	.073
37	1.00	.963	.915	.854	.829	.694	.498	.483	.388	.313	.298	.206	.142	.123	.117	.110	.104	.096	.088	.079
38	1.00	.965	.917	.856	.835	.702	.506	.490	.396	.319	.304	.210	.146	.127	.121	.115	.108	.102	.094	.085
39	1.00	.967	.919	.858	.842	.710	.515	.496	.402	.325	.310	.215	.150	.131	.125	.119	.113	.106	.100	.092
40	1.00	.969	.921	.860	.846	.719	.523	.502	.408	.331	.317	.219	.154	.135	.129	.123	.117	.110	.104	.098

TOTAL OBSERVATIONS 480

TABLE 11. S. M. PCW ( W ) I CONSECUTIVE LAUNCH OPPORTUNITIES IN J PERIODS ( W\* = 35 M/SEC ).  
BASED ON MAXIMUM WIND SPEEDS IN THE 10-15 KM LAYER OVER CAPE KENNEDY, FLORIDA.  
PERIOD OF RECORD JANUARY 1956 - DECEMBER 1963.

CAPF KENNEDY , FLORIDA NOVEMBER  
 SPEFDS LESS THAN 035 MPS

P ( I SUCCESSES IN J PERIODS )

	I																			
J	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
1	.460																			
2	.565	.352																		
3	.644	.460	.269																	
4	.706	.548	.371	.204																
5	.748	.627	.456	.292	.163															
6	.779	.677	.542	.373	.242	.127														
7	.806	.708	.602	.456	.317	.198	.102													
8	.829	.742	.638	.527	.390	.269	.158	.085												
9	.846	.765	.679	.577	.450	.335	.223	.135	.069											
10	.858	.783	.708	.631	.498	.396	.281	.198	.108	.056										
11	.873	.796	.729	.675	.550	.450	.329	.258	.167	.085	.046									
12	.885	.810	.742	.702	.608	.498	.379	.302	.229	.138	.069	.033								
13	.900	.821	.758	.717	.644	.563	.423	.350	.269	.204	.113	.050	.025							
14	.913	.835	.769	.738	.665	.602	.490	.392	.313	.244	.181	.083	.035	.021						
15	.925	.850	.781	.750	.692	.625	.538	.450	.352	.288	.221	.146	.060	.027	.019					
16	.933	.869	.794	.765	.706	.656	.567	.500	.404	.329	.263	.183	.115	.046	.023	.017				
17	.942	.883	.813	.777	.723	.673	.604	.525	.458	.377	.306	.223	.150	.092	.035	.021	.015			
18	.950	.894	.833	.792	.735	.690	.627	.565	.481	.433	.350	.271	.183	.129	.071	.029	.019	.013		
19	.958	.904	.850	.813	.748	.702	.650	.588	.521	.452	.410	.313	.231	.165	.104	.056	.025	.017	.010	
20	.967	.915	.865	.831	.767	.715	.665	.613	.542	.490	.429	.373	.277	.208	.140	.088	.046	.021	.015	.008
21	.975	.925	.879	.846	.783	.733	.677	.631	.565	.508	.469	.396	.335	.254	.188	.119	.073	.035	.019	.013
22	.983	.933	.894	.863	.794	.752	.696	.644	.585	.529	.488	.440	.356	.317	.235	.167	.098	.054	.031	.017
23	.992	.942	.906	.877	.808	.763	.715	.660	.600	.552	.502	.463	.400	.340	.300	.217	.144	.069	.050	.027
24	.998	.952	.915	.894	.823	.775	.723	.681	.617	.567	.523	.477	.429	.381	.323	.283	.196	.106	.060	.046
25	1.00	.963	.927	.904	.840	.792	.731	.690	.642	.581	.538	.496	.448	.413	.360	.308	.265	.156	.092	.052
26	1.00	.971	.938	.919	.852	.810	.744	.698	.654	.606	.550	.510	.469	.431	.394	.344	.294	.223	.144	.073
27	1.00	.975	.946	.931	.871	.825	.758	.708	.663	.623	.571	.523	.485	.452	.413	.379	.327	.254	.208	.121
28	1.00	.981	.948	.942	.885	.850	.771	.721	.671	.629	.588	.544	.498	.469	.433	.398	.365	.285	.242	.179
29	1.00	.988	.950	.944	.900	.865	.802	.733	.681	.635	.592	.563	.519	.481	.450	.419	.383	.325	.271	.215
30	1.00	.994	.952	.946	.906	.883	.819	.765	.694	.642	.596	.569	.540	.500	.463	.433	.406	.346	.310	.262
31	1.00	.996	.958	.948	.913	.890	.844	.781	.723	.650	.600	.573	.548	.525	.479	.446	.419	.373	.329	.281
32	1.00	.998	.963	.952	.917	.898	.856	.808	.740	.673	.604	.577	.552	.533	.508	.463	.429	.388	.356	.300
33	1.00	1.00	.967	.954	.923	.902	.869	.825	.769	.685	.619	.581	.556	.538	.519	.492	.444	.400	.369	.329
34	1.00	1.00	.973	.956	.927	.908	.877	.842	.790	.710	.627	.592	.560	.542	.525	.504	.469	.417	.379	.342
35	1.00	1.00	.979	.958	.931	.913	.888	.854	.810	.729	.646	.602	.567	.546	.529	.513	.483	.438	.396	.352
36	1.00	1.00	.983	.963	.933	.919	.896	.865	.827	.750	.660	.619	.577	.550	.533	.517	.496	.452	.410	.371
37	1.00	1.00	.988	.965	.938	.921	.906	.875	.838	.771	.677	.631	.590	.563	.538	.521	.502	.469	.421	.385
38	1.00	1.00	.992	.967	.942	.923	.910	.888	.848	.788	.694	.648	.596	.575	.548	.525	.508	.475	.440	.396
39	1.00	1.00	.994	.971	.946	.925	.915	.890	.863	.802	.706	.669	.613	.579	.558	.535	.515	.481	.446	.415
40	1.00	1.00	.994	.975	.952	.927	.919	.892	.865	.821	.721	.681	.635	.594	.560	.546	.525	.490	.452	.423

TOTAL OBSERVATIONS 480

TABLE 11. S.b. P(N < N\*) I LAUNCH OPPORTUNITIES IN J PERIODS (N\* = 35 M/SEC).  
 BASED ON MAXIMUM WIND SPEEDS IN THE 10-15 KM LAYER OVER CAPE KENNEDY, FLORIDA.  
 PERIOD OF RECORD JANUARY 1956 - DECEMBER 1963.



CAPF KENNEDY, FLORIDA NOVEMBER  
SPEEDS LESS THAN 040 MPS

PC ( I CONSECUTIVE SUCCESSES IN J PERIODS )

I

J	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
1	.627																			
2	.725	.523																		
3	.788	.602	.442																	
4	.831	.681	.515	.367																
5	.865	.731	.588	.427	.306															
6	.888	.767	.658	.488	.348	.265														
7	.906	.796	.698	.546	.390	.302	.229													
8	.923	.825	.727	.600	.431	.340	.258	.200												
9	.938	.848	.752	.638	.469	.377	.288	.229	.171											
10	.950	.867	.773	.669	.506	.410	.317	.258	.198	.144										
11	.960	.885	.790	.696	.542	.444	.344	.288	.225	.169	.119									
12	.969	.904	.804	.719	.571	.479	.371	.315	.252	.194	.142	.096								
13	.977	.917	.819	.740	.596	.513	.400	.342	.277	.219	.165	.117	.075							
14	.979	.931	.833	.754	.623	.540	.429	.371	.302	.242	.188	.138	.088	.063						
15	.981	.944	.846	.769	.646	.569	.456	.400	.329	.265	.208	.158	.100	.073	.052					
16	.983	.952	.858	.783	.663	.596	.483	.429	.356	.290	.229	.177	.113	.083	.060	.044				
17	.985	.958	.871	.796	.681	.621	.510	.458	.383	.315	.252	.196	.123	.094	.069	.052	.035			
18	.988	.965	.881	.808	.698	.644	.538	.485	.413	.340	.275	.217	.133	.104	.077	.060	.044	.027		
19	.990	.971	.892	.821	.713	.667	.563	.513	.440	.367	.298	.238	.146	.115	.085	.069	.052	.033	.021	
20	.992	.975	.902	.833	.727	.688	.585	.540	.465	.394	.323	.258	.158	.127	.094	.077	.060	.040	.027	.017
21	.994	.979	.915	.846	.742	.704	.608	.565	.490	.419	.348	.281	.171	.140	.104	.085	.069	.046	.033	.023
22	.996	.983	.925	.858	.756	.721	.629	.588	.515	.442	.373	.304	.185	.152	.115	.096	.077	.052	.040	.029
23	.998	.988	.935	.871	.771	.738	.646	.610	.538	.465	.398	.327	.200	.165	.125	.106	.088	.058	.046	.035
24	1.00	.992	.946	.883	.785	.754	.663	.631	.558	.488	.423	.350	.215	.177	.135	.117	.098	.067	.052	.042
25	1.00	.996	.956	.896	.800	.769	.679	.648	.579	.508	.448	.373	.229	.190	.146	.127	.108	.075	.060	.048
26	1.00	1.00	.965	.906	.815	.783	.696	.665	.598	.527	.473	.396	.244	.202	.156	.138	.119	.083	.069	.056
27	1.00	1.00	.971	.917	.829	.798	.708	.681	.613	.544	.496	.419	.258	.215	.167	.148	.129	.092	.077	.065
28	1.00	1.00	.975	.923	.842	.813	.721	.696	.627	.563	.517	.442	.273	.227	.177	.158	.140	.100	.085	.073
29	1.00	1.00	.977	.929	.854	.827	.733	.708	.640	.575	.538	.463	.288	.240	.188	.169	.150	.108	.094	.081
30	1.00	1.00	.979	.935	.865	.840	.746	.721	.652	.585	.556	.481	.302	.252	.198	.179	.160	.117	.102	.090
31	1.00	1.00	.981	.938	.875	.852	.758	.733	.663	.596	.569	.500	.315	.265	.208	.190	.171	.125	.110	.098
32	1.00	1.00	.983	.940	.883	.860	.771	.746	.673	.606	.581	.515	.327	.277	.219	.200	.181	.133	.119	.106
33	1.00	1.00	.985	.942	.892	.869	.781	.758	.683	.615	.594	.525	.338	.288	.229	.210	.192	.142	.127	.115
34	1.00	1.00	.988	.944	.900	.875	.792	.769	.694	.623	.606	.535	.348	.296	.240	.221	.202	.150	.135	.123
35	1.00	1.00	.990	.946	.906	.881	.802	.779	.702	.631	.615	.546	.356	.304	.248	.231	.213	.158	.144	.131
36	1.00	1.00	.992	.948	.913	.885	.813	.790	.710	.638	.623	.556	.365	.313	.256	.240	.223	.167	.152	.140
37	1.00	1.00	.994	.952	.919	.890	.821	.800	.719	.644	.629	.563	.373	.321	.265	.248	.231	.175	.160	.148
38	1.00	1.00	.996	.956	.925	.894	.829	.808	.727	.650	.635	.567	.381	.329	.273	.256	.240	.181	.169	.156
39	1.00	1.00	.998	.960	.929	.898	.835	.817	.733	.656	.642	.571	.388	.338	.281	.265	.248	.188	.175	.165
40	1.00	1.00	1.00	.965	.933	.902	.842	.823	.740	.660	.648	.575	.394	.344	.290	.273	.256	.194	.181	.171

TOTAL OBSERVATIONS 480

TABLE 11. 6.a. P(W < W\*) I CONSECUTIVE LAUNCH OPPORTUNITIES IN J PERIODS (W\* = 40 M/SEC).  
BASED ON MAXIMUM WIND SPEEDS IN THE 10-15 KM LAYER OVER CAPE KENNEDY, FLORIDA.  
PERIOD OF RECORD JANUARY 1956 - DECEMBER 1963.

CAPE KENNEDY, FLORIDA (CONTINUED)  
SPEEDS LESS THAN 40 MPS

P (I SUCCESSFUL LAUNCHES)

	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
1	.627																			
2	.725	.573																		
3	.788	.639	.442																	
4	.831	.706	.577	.367																
5	.865	.750	.652	.517	.376															
6	.888	.790	.694	.602	.452	.265														
7	.906	.821	.735	.646	.552	.400	.229													
8	.923	.846	.767	.692	.602	.508	.352	.200												
9	.938	.869	.790	.723	.650	.560	.467	.315	.171											
10	.950	.890	.813	.742	.690	.608	.523	.435	.277	.144										
11	.960	.910	.833	.765	.709	.648	.579	.494	.398	.246	.119									
12	.969	.925	.858	.790	.725	.671	.617	.558	.456	.367	.217	.096								
13	.977	.940	.871	.821	.746	.692	.642	.594	.531	.421	.338	.192	.075							
14	.979	.958	.888	.835	.777	.715	.660	.623	.569	.496	.394	.310	.160	.063						
15	.981	.965	.917	.850	.794	.748	.679	.642	.606	.531	.471	.371	.271	.140	.052					
16	.983	.971	.929	.883	.806	.769	.710	.660	.625	.560	.513	.448	.333	.242	.121	.044				
17	.985	.977	.942	.898	.842	.785	.727	.694	.644	.594	.542	.496	.410	.304	.219	.104	.035			
18	.988	.981	.956	.913	.858	.819	.746	.706	.681	.619	.567	.519	.469	.377	.281	.198	.090	.027		
19	.990	.985	.963	.925	.875	.838	.777	.723	.692	.663	.594	.542	.490	.440	.352	.260	.181	.073	.021	
20	.992	.988	.971	.946	.904	.854	.804	.742	.708	.675	.642	.567	.515	.458	.421	.325	.246	.160	.060	.017
21	.994	.990	.975	.960	.917	.888	.825	.767	.721	.692	.658	.615	.540	.479	.442	.396	.308	.227	.144	.048
22	.996	.992	.981	.967	.935	.904	.863	.788	.742	.702	.677	.633	.588	.502	.460	.417	.319	.290	.213	.129
23	.998	.994	.988	.975	.942	.927	.883	.821	.763	.719	.682	.654	.606	.554	.479	.433	.402	.363	.273	.198
24	1.00	.996	.992	.983	.950	.933	.910	.846	.790	.738	.704	.665	.627	.579	.529	.448	.421	.385	.346	.258
25	1.00	1.00	.994	.990	.960	.944	.919	.875	.819	.760	.723	.681	.649	.606	.552	.496	.433	.406	.367	.333
26	1.00	1.00	1.00	.992	.973	.950	.933	.888	.848	.789	.744	.700	.654	.621	.577	.519	.481	.419	.385	.354
27	1.00	1.00	1.00	1.00	.977	.967	.938	.908	.867	.810	.771	.719	.673	.638	.592	.542	.504	.465	.398	.373
28	1.00	1.00	1.00	1.00	.990	.973	.954	.917	.890	.831	.790	.746	.690	.656	.610	.554	.525	.488	.440	.388
29	1.00	1.00	1.00	1.00	.994	.985	.965	.933	.898	.858	.810	.763	.719	.671	.633	.569	.535	.508	.460	.427
30	1.00	1.00	1.00	1.00	.998	.990	.979	.946	.915	.871	.840	.783	.735	.702	.650	.588	.548	.517	.483	.446
31	1.00	1.00	1.00	1.00	1.00	.996	.983	.965	.929	.892	.850	.810	.756	.721	.683	.602	.563	.527	.492	.469
32	1.00	1.00	1.00	1.00	1.00	1.00	.992	.973	.950	.919	.865	.823	.781	.740	.708	.633	.575	.538	.502	.477
33	1.00	1.00	1.00	1.00	1.00	1.00	.998	.985	.963	.935	.877	.840	.790	.763	.727	.667	.602	.546	.510	.485
34	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.992	.981	.959	.904	.850	.804	.771	.748	.694	.635	.565	.517	.492
35	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.998	.988	.975	.923	.877	.810	.785	.756	.717	.665	.594	.529	.496
36	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.996	.981	.958	.896	.833	.792	.771	.729	.683	.623	.556	.502
37	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.992	.969	.940	.848	.813	.777	.744	.698	.635	.590	.523
38	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.998	.983	.954	.896	.821	.798	.750	.713	.648	.600	.556
39	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.994	.975	.917	.865	.802	.773	.719	.663	.610	.569
40	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.988	.940	.890	.842	.777	.744	.673	.621	.575

TOTAL OBSERVATIONS 480

TABLE 11. 6.b. P(W < W\*) I LAUNCH OPPORTUNITIES IN J PERIODS (W\* = 40 M/SEC).  
BASED ON MAXIMUM WIND SPEEDS IN THE 10-15 KM LAYER OVER CAPE KENNEDY, FLORIDA.

PERIOD OF RECORD JANUARY 1956 - DECEMBER 1963.

CAPE KENNEDY, FLORIDA NOVEMBER  
SPEEDS LESS THAN 045 MPS

PC ( I CONSECUTIVE SUCCESSES IN J PERIODS )

J	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
1	.771																			
2	.838	.700																		
3	.881	.760	.633																	
4	.908	.821	.688	.571																
5	.931	.863	.742	.619	.519															
6	.948	.888	.796	.667	.565	.471														
7	.960	.908	.829	.715	.610	.513	.427													
8	.969	.927	.852	.760	.656	.554	.463	.388												
9	.971	.942	.875	.796	.700	.596	.498	.419	.352											
10	.973	.952	.894	.827	.742	.635	.533	.450	.381	.319										
11	.975	.958	.908	.852	.779	.673	.567	.481	.410	.348	.285									
12	.977	.965	.923	.873	.808	.715	.598	.510	.440	.377	.315	.252								
13	.979	.971	.933	.890	.829	.750	.633	.538	.467	.406	.344	.279	.225							
14	.981	.975	.942	.902	.848	.777	.669	.569	.492	.433	.373	.306	.250	.200						
15	.983	.979	.952	.910	.863	.798	.698	.600	.521	.458	.400	.333	.275	.221	.179					
16	.985	.981	.960	.921	.875	.815	.721	.629	.550	.488	.425	.358	.300	.242	.200	.158				
17	.988	.983	.967	.929	.885	.829	.740	.656	.577	.517	.454	.383	.323	.263	.221	.177	.140			
18	.990	.985	.971	.935	.896	.846	.756	.677	.604	.544	.483	.413	.346	.283	.242	.196	.158	.121		
19	.992	.988	.975	.940	.904	.858	.771	.696	.629	.571	.510	.442	.373	.304	.263	.215	.177	.140	.102	
20	.994	.990	.979	.942	.910	.871	.785	.713	.650	.598	.538	.469	.400	.329	.283	.233	.196	.158	.119	.088
21	.996	.992	.983	.944	.915	.881	.796	.727	.669	.623	.565	.496	.425	.354	.308	.252	.215	.177	.135	.102
22	.998	.994	.988	.948	.917	.890	.806	.742	.688	.644	.592	.523	.450	.377	.333	.275	.233	.196	.152	.117
23	1.00	.996	.992	.952	.921	.898	.817	.754	.704	.663	.617	.550	.475	.400	.356	.298	.256	.215	.169	.131
24	1.00	.998	.994	.958	.925	.906	.827	.767	.721	.681	.638	.577	.500	.423	.379	.319	.279	.235	.185	.146
25	1.00	1.00	.996	.965	.931	.913	.840	.779	.735	.698	.656	.602	.525	.446	.402	.340	.300	.256	.204	.160
26	1.00	1.00	.998	.971	.938	.921	.852	.794	.750	.715	.675	.623	.550	.469	.425	.360	.321	.275	.223	.177
27	1.00	1.00	1.00	.977	.944	.929	.865	.808	.767	.729	.692	.642	.575	.492	.448	.381	.342	.294	.240	.194
28	1.00	1.00	1.00	.981	.950	.938	.877	.825	.783	.746	.708	.660	.596	.515	.471	.402	.363	.313	.256	.208
29	1.00	1.00	1.00	.985	.956	.944	.890	.840	.802	.763	.725	.677	.617	.538	.494	.423	.383	.331	.273	.223
30	1.00	1.00	1.00	.988	.963	.950	.902	.852	.821	.781	.742	.696	.638	.558	.517	.444	.404	.350	.290	.238
31	1.00	1.00	1.00	.990	.969	.956	.913	.865	.835	.800	.760	.713	.658	.579	.540	.465	.425	.369	.306	.252
32	1.00	1.00	1.00	.992	.973	.963	.923	.877	.848	.817	.779	.731	.679	.602	.560	.485	.446	.388	.323	.267
33	1.00	1.00	1.00	.994	.977	.969	.931	.888	.860	.831	.796	.750	.700	.623	.583	.506	.467	.406	.340	.281
34	1.00	1.00	1.00	.996	.981	.973	.940	.898	.873	.844	.813	.767	.721	.644	.606	.527	.488	.425	.356	.296
35	1.00	1.00	1.00	.998	.985	.977	.948	.906	.883	.856	.827	.783	.740	.665	.627	.548	.510	.444	.373	.310
36	1.00	1.00	1.00	1.00	.990	.981	.956	.915	.894	.869	.840	.800	.758	.683	.648	.569	.531	.465	.390	.325
37	1.00	1.00	1.00	1.00	.994	.985	.965	.923	.902	.879	.852	.815	.777	.702	.667	.588	.552	.485	.408	.340
38	1.00	1.00	1.00	1.00	.998	.990	.973	.931	.910	.890	.865	.827	.794	.719	.685	.606	.573	.504	.427	.354
39	1.00	1.00	1.00	1.00	1.00	.994	.979	.940	.919	.898	.875	.840	.806	.733	.702	.625	.592	.523	.446	.369
40	1.00	1.00	1.00	1.00	1.00	.998	.985	.948	.927	.906	.885	.852	.819	.746	.717	.642	.610	.542	.463	.383

TOTAL OBSERVATIONS 480

TABLE 11. 7.a. P(W < W<sub>0</sub>) I CONSECUTIVE LAUNCH OPPORTUNITIES IN J PERIODS (W<sub>0</sub> = 45 M/SEC).  
BASED ON MAXIMUM WIND SPEEDS IN THE 10-15 KM LAYER OVER CAPE KENNEDY, FLORIDA.  
PERIOD OF RECORD JANUARY 1956 - DECEMBER 1963.

CAPF KENNEDY . FLORIDA NOVEMBER  
SPEEDS LESS THAN 045 MPS

P ( I SUCCESSES I, J PERIODS )

i

J	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
1	.771																			
2	.838	.700																		
3	.881	.781	.633																	
4	.908	.842	.727	.571																
5	.931	.873	.796	.677	.519															
6	.948	.902	.829	.758	.631	.471														
7	.960	.923	.865	.802	.719	.588	.427													
8	.969	.942	.888	.844	.771	.683	.542	.388												
9	.971	.958	.913	.867	.817	.748	.638	.500	.352											
10	.973	.965	.938	.894	.844	.794	.710	.598	.463	.319										
11	.975	.971	.948	.921	.875	.823	.756	.675	.565	.431	.285									
12	.977	.973	.963	.929	.908	.856	.785	.721	.644	.540	.400	.252								
13	.979	.975	.969	.948	.917	.896	.819	.750	.690	.621	.515	.367	.225							
14	.981	.977	.973	.956	.938	.906	.867	.781	.723	.663	.598	.490	.335	.200						
15	.983	.979	.975	.963	.948	.929	.879	.835	.756	.696	.638	.575	.467	.300	.179					
16	.985	.981	.977	.967	.954	.942	.906	.852	.815	.727	.671	.615	.554	.438	.273	.158				
17	.988	.983	.979	.971	.958	.948	.923	.885	.833	.785	.704	.650	.594	.525	.415	.248	.140			
18	.990	.985	.981	.975	.963	.952	.931	.906	.869	.806	.763	.685	.629	.565	.502	.394	.225	.121		
19	.992	.988	.983	.979	.967	.956	.938	.917	.892	.844	.783	.744	.667	.602	.542	.481	.373	.204	.102	
20	.994	.990	.985	.981	.973	.960	.940	.929	.902	.869	.821	.767	.727	.644	.581	.521	.460	.354	.181	.088
21	.996	.992	.988	.983	.977	.969	.942	.933	.921	.881	.846	.804	.752	.706	.627	.563	.502	.440	.331	.160
22	.998	.994	.990	.985	.981	.973	.950	.935	.927	.908	.856	.831	.788	.735	.690	.610	.546	.483	.413	.310
23	1.00	.996	.992	.988	.983	.979	.954	.944	.929	.921	.885	.842	.817	.767	.721	.673	.596	.529	.454	.390
24	1.00	1.00	.994	.990	.985	.981	.963	.948	.938	.923	.904	.873	.827	.798	.750	.706	.656	.581	.500	.433
25	1.00	1.00	1.00	.992	.988	.983	.967	.956	.942	.931	.908	.894	.860	.808	.783	.733	.692	.640	.552	.483
26	1.00	1.00	1.00	1.00	.990	.985	.971	.960	.950	.935	.919	.898	.885	.844	.794	.767	.717	.677	.608	.538
27	1.00	1.00	1.00	1.00	1.00	.988	.975	.965	.954	.944	.925	.908	.890	.873	.831	.775	.752	.700	.650	.590
28	1.00	1.00	1.00	1.00	1.00	1.00	.979	.969	.958	.948	.935	.915	.900	.877	.865	.815	.760	.738	.673	.633
29	1.00	1.00	1.00	1.00	1.00	1.00	.996	.975	.963	.952	.942	.925	.906	.888	.869	.852	.802	.746	.715	.656
30	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.992	.969	.956	.946	.933	.917	.894	.879	.858	.842	.790	.727	.698
31	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.985	.963	.950	.940	.925	.904	.885	.871	.848	.831	.775	.713
32	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.998	.979	.956	.944	.933	.913	.896	.877	.863	.838	.821	.758
33	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.998	.996	.973	.950	.938	.923	.904	.888	.869	.854	.827	.806
34	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.996	.994	.967	.944	.927	.917	.896	.879	.858	.846	.813
35	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.994	.992	.960	.933	.921	.910	.888	.867	.850	.833
36	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.992	.990	.952	.925	.915	.904	.875	.856	.840
37	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.990	.988	.942	.919	.908	.894	.865	.844
38	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.988	.981	.935	.913	.898	.889	.852
39	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.981	.979	.929	.904	.890	.873
40	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.996	.979	.977	.923	.894	.875

TOTAL OBSERVATIONS 480

TABLE 11. 7. b. P(W < W\*) I LAUNCH OPPORTUNITIES IN J PERIODS (W\* = 45 M/SEC).  
BASED ON MAXIMUM WIND SPEEDS IN THE 10-15 KM LAYER OVER CAPE KENNEDY, FLORIDA.

PERIOD OF RECORD JANUARY 1956 - DECEMBER 1963.

CAPE KENNEDY , FLORIDA NOVEMBER  
SPEEDS LESS THAN 050 MPS

		PC ( I CONSECUTIVE SUCCESSES IN J PERIODS )																			
		I																			
J		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
1		.873																			
2		.919	.821																		
3		.948	.858	.777																	
4		.956	.898	.815	.733																
5		.967	.921	.854	.771	.690															
6		.979	.931	.894	.810	.725	.650														
7		.988	.944	.917	.850	.760	.681	.615													
8		.992	.954	.929	.890	.796	.713	.644	.579												
9		.994	.960	.942	.915	.831	.744	.673	.606	.544											
10		.996	.967	.952	.927	.869	.775	.702	.633	.567	.513										
11		.998	.971	.960	.940	.890	.808	.731	.660	.590	.535	.481									
12	1.00	.975	.967	.952	.904	.840	.763	.688	.613	.558	.502	.452									
13	1.00	.977	.971	.960	.919	.860	.792	.717	.635	.581	.523	.473	.423								
14	1.00	.979	.975	.967	.931	.875	.821	.744	.660	.604	.544	.494	.444	.398							
15	1.00	.981	.977	.971	.940	.890	.840	.771	.683	.629	.565	.515	.465	.419	.373						
16	1.00	.983	.979	.975	.948	.900	.852	.798	.706	.652	.588	.535	.485	.440	.392	.352					
17	1.00	.985	.981	.977	.954	.910	.865	.815	.729	.675	.608	.558	.506	.460	.410	.371	.331				
18	1.00	.988	.983	.979	.958	.919	.879	.827	.752	.698	.629	.579	.529	.481	.429	.390	.350	.310			
19	1.00	.990	.985	.981	.963	.923	.892	.840	.767	.721	.650	.600	.550	.504	.448	.408	.369	.329	.292		
20	1.00	.992	.988	.983	.967	.927	.902	.852	.779	.744	.671	.621	.571	.525	.469	.427	.388	.348	.310	.273	
21	1.00	.994	.990	.985	.969	.933	.908	.863	.792	.758	.692	.642	.592	.546	.488	.448	.406	.367	.329	.292	
22	1.00	.996	.992	.988	.971	.940	.917	.871	.804	.771	.713	.663	.613	.567	.506	.467	.427	.385	.348	.310	
23	1.00	.998	.994	.990	.973	.944	.925	.877	.815	.783	.729	.683	.633	.588	.525	.485	.446	.406	.367	.329	
24	1.00	1.00	.996	.992	.975	.948	.933	.883	.825	.796	.744	.704	.654	.608	.544	.504	.465	.425	.385	.348	
25	1.00	1.00	.998	.994	.979	.952	.940	.890	.833	.808	.758	.721	.675	.629	.563	.523	.483	.444	.402	.367	
26	1.00	1.00	1.00	.996	.983	.958	.946	.896	.842	.819	.775	.735	.696	.650	.581	.542	.502	.463	.419	.383	
27	1.00	1.00	1.00	.998	.988	.965	.952	.902	.850	.827	.790	.752	.713	.671	.600	.560	.521	.481	.435	.400	
28	1.00	1.00	1.00	1.00	.992	.971	.958	.908	.858	.835	.802	.769	.729	.692	.619	.579	.540	.500	.452	.417	
29	1.00	1.00	1.00	1.00	.996	.975	.965	.915	.867	.844	.813	.783	.746	.710	.638	.598	.558	.519	.469	.433	
30	1.00	1.00	1.00	1.00	1.00	.979	.971	.921	.875	.852	.823	.796	.763	.727	.658	.617	.577	.538	.485	.450	
31	1.00	1.00	1.00	1.00	1.00	.983	.975	.927	.883	.860	.833	.806	.777	.744	.675	.638	.596	.556	.502	.467	
32	1.00	1.00	1.00	1.00	1.00	.988	.979	.933	.892	.869	.844	.817	.790	.760	.692	.658	.617	.575	.519	.483	
33	1.00	1.00	1.00	1.00	1.00	.990	.983	.942	.900	.877	.854	.827	.800	.775	.708	.675	.638	.596	.535	.500	
34	1.00	1.00	1.00	1.00	1.00	.992	.988	.950	.910	.885	.863	.838	.810	.788	.725	.692	.658	.617	.554	.517	
35	1.00	1.00	1.00	1.00	1.00	.994	.990	.958	.919	.896	.871	.848	.821	.798	.738	.708	.675	.638	.573	.535	
36	1.00	1.00	1.00	1.00	1.00	.996	.992	.967	.927	.906	.881	.856	.831	.808	.748	.723	.692	.658	.592	.554	
37	1.00	1.00	1.00	1.00	1.00	.998	.994	.973	.935	.915	.892	.867	.842	.819	.756	.735	.706	.675	.610	.573	
38	1.00	1.00	1.00	1.00	1.00	1.00	.996	.979	.944	.923	.902	.877	.852	.829	.765	.744	.721	.690	.629	.592	
39	1.00	1.00	1.00	1.00	1.00	1.00	.998	.985	.950	.931	.910	.888	.863	.840	.773	.752	.731	.704	.644	.610	
40	1.00	1.00	1.00	1.00	1.00	1.00	.992	.956	.940	.919	.898	.873	.850	.781	.760	.740	.717	.658	.627		
TOTAL OBSERVATIONS		480																			

TABLE 11.  $P(W < W_0)$  I CONSECUTIVE LAUNCH OPPORTUNITIES IN J PERIODS ( $W_0 = 50$  M/SEC).  
BASED ON MAXIMUM WIND SPEEDS IN THE 10-15 KM LAYER OVER CAPE KENNEDY, FLORIDA.  
PERIOD OF RECORD JANUARY 1956 - DECEMBER 1963.

CAPE KENNEDY , FLORIDA NOVEMBER  
SPEFDS LESS THAN 050 MPS

P ( I SUCCESSES IN J PERIODS )

	I																			
J	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
1	.873																			
2	.919	.821																		
3	.948	.877	.777																	
4	.956	.921	.850	.733																
5	.967	.931	.906	.823	.690															
6	.979	.940	.919	.892	.794	.650														
7	.988	.952	.929	.906	.871	.767	.615													
8	.992	.963	.944	.919	.890	.852	.740	.579												
9	.994	.971	.956	.935	.906	.873	.831	.715	.544											
10	.996	.975	.967	.950	.925	.894	.854	.810	.688	.513										
11	.998	.977	.973	.963	.942	.913	.879	.835	.788	.665	.481									
12	1.00	.979	.975	.971	.958	.933	.896	.867	.817	.763	.640	.452								
13	1.00	.983	.977	.973	.969	.952	.921	.881	.854	.794	.740	.615	.423							
14	1.00	.988	.979	.975	.971	.963	.946	.908	.867	.835	.775	.717	.590	.398						
15	1.00	.992	.981	.977	.973	.965	.956	.940	.896	.846	.821	.754	.696	.565	.373					
16	1.00	.994	.985	.979	.975	.967	.960	.950	.931	.912	.874	.802	.735	.675	.538	.352				
17	1.00	.996	.988	.983	.977	.969	.963	.956	.942	.921	.865	.813	.783	.717	.650	.517	.331			
18	1.00	.998	.990	.985	.981	.971	.965	.958	.950	.933	.910	.852	.794	.767	.692	.631	.498	.310		
19	1.00	1.00	.992	.988	.983	.975	.967	.960	.952	.944	.925	.898	.838	.777	.744	.673	.613	.475	.292	
20	1.00	1.00	.996	.990	.985	.977	.971	.963	.954	.946	.935	.917	.885	.825	.756	.727	.654	.594	.458	.273
21	1.00	1.00	.998	.994	.988	.981	.973	.967	.956	.948	.938	.929	.908	.873	.808	.742	.710	.643	.575	.442
22	1.00	1.00	1.00	.996	.992	.985	.977	.969	.960	.950	.940	.931	.923	.900	.856	.798	.725	.667	.617	.558
23	1.00	1.00	1.00	1.00	.994	.990	.983	.975	.965	.954	.941	.933	.925	.917	.888	.844	.783	.713	.681	.600
24	1.00	1.00	1.00	1.00	1.00	.992	.988	.981	.974	.960	.946	.935	.927	.919	.906	.879	.827	.773	.698	.667
25	1.00	1.00	1.00	1.00	1.00	1.00	.990	.985	.979	.965	.952	.940	.929	.921	.908	.898	.867	.815	.760	.683
26	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.988	.983	.977	.966	.946	.933	.923	.910	.902	.872	.816	.756	.678
27	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.985	.981	.971	.950	.940	.927	.913	.904	.874	.817	.746	.675
28	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.983	.979	.965	.944	.933	.917	.908	.878	.820	.748	.677
29	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.981	.977	.956	.934	.923	.907	.900	.892	.883	.854
30	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.979	.973	.952	.924	.915	.904	.894	.885	.877
31	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.975	.969	.946	.921	.906	.898	.888	.879
32	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.978	.971	.965	.940	.910	.900	.892
33	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.996	.967	.960	.929	.904	.885
34	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.994	.963	.952	.923	.898
35	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.992	.956	.946	.917
36	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.990	.950	.940
37	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.988	.942
38	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.981
39	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.979
40	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.998

TOTAL OBSERVATIONS 480

TABLE 11. S.b. P(W < W\*) I LAUNCH OPPORTUNITIES IN J PERIODS (W\* = 50 M/SEC).  
BASED ON MAXIMUM WIND SPEEDS IN THE 10-15 KM LAYER OVER CAPE KENNEDY, FLORIDA.  
PERIOD OF RECORD JANUARY 1956 - DECEMBER 1963.

CAPE KENNEDY, FLORIDA NOVEMBER

SPEEDS LESS THAN 055 MPS

PC ( I CONSECUTIVE SUCCESSES IN J PERIODS )

J	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
1	.923																			
2	.946	.896																		
3	.958	.915	.873																	
4	.969	.933	.892	.850																
5	.977	.946	.910	.869	.827															
6	.985	.954	.931	.888	.846	.802														
7	.990	.963	.944	.908	.865	.819	.779													
8	.992	.969	.954	.929	.885	.835	.796	.754												
9	.994	.971	.963	.944	.906	.854	.813	.771	.729											
10	.996	.973	.969	.954	.931	.873	.831	.788	.744	.704										
11	.998	.975	.971	.963	.944	.896	.850	.806	.758	.719	.679									
12	1.00	.977	.973	.969	.954	.917	.873	.825	.775	.733	.694	.654								
13	1.00	.979	.975	.971	.963	.929	.874	.828	.772	.749	.708	.669	.629							
14	1.00	.981	.977	.973	.969	.940	.915	.869	.813	.783	.723	.683	.644	.608						
15	1.00	.983	.979	.975	.971	.948	.927	.890	.831	.781	.73	.698	.658	.623	.588					
16	1.00	.985	.981	.977	.973	.956	.935	.913	.850	.798	.756	.713	.673	.638	.600	.569				
17	1.00	.988	.983	.979	.975	.960	.944	.923	.871	.815	.773	.731	.688	.652	.613	.581	.552			
18	1.00	.990	.985	.981	.977	.965	.954	.931	.892	.833	.790	.748	.706	.667	.625	.594	.565	.535		
19	1.00	.992	.988	.983	.979	.969	.958	.942	.904	.857	.806	.765	.723	.685	.638	.606	.577	.548	.519	
20	1.00	.994	.990	.985	.981	.973	.963	.952	.915	.871	.823	.781	.740	.702	.654	.619	.590	.560	.531	.502
21	1.00	.996	.992	.988	.983	.979	.967	.956	.925	.881	.840	.798	.756	.719	.669	.635	.602	.573	.544	.515
22	1.00	.998	.994	.990	.985	.98	.973	.960	.935	.890	.856	.815	.773	.735	.683	.650	.619	.585	.556	.527
23	1.00	1.00	.996	.992	.988	.983	.979	.967	.942	.898	.867	.831	.790	.752	.698	.665	.633	.602	.569	.540
24	1.00	1.00	.996	.994	.990	.985	.981	.973	.950	.906	.875	.848	.806	.769	.713	.679	.648	.617	.585	.552
25	1.00	1.00	1.00	.996	.992	.988	.983	.979	.958	.913	.883	.858	.823	.785	.727	.694	.663	.631	.600	.567
26	1.00	1.00	1.00	.998	.994	.990	.985	.981	.967	.919	.894	.867	.840	.802	.742	.703	.677	.646	.615	.579
27	1.00	1.00	1.00	1.00	.996	.992	.988	.983	.973	.925	.900	.877	.850	.819	.756	.723	.692	.660	.629	.592
28	1.00	1.00	1.00	1.00	.998	.994	.990	.985	.975	.929	.906	.888	.860	.831	.771	.738	.706	.675	.644	.604
29	1.00	1.00	1.00	1.00	1.00	.996	.992	.988	.979	.933	.910	.894	.871	.844	.781	.752	.721	.690	.658	.617
30	1.00	1.00	1.00	1.00	1.00	.998	.994	.990	.983	.940	.915	.898	.881	.854	.794	.763	.735	.704	.673	.629
31	1.00	1.00	1.00	1.00	1.00	1.00	.998	.992	.988	.944	.923	.902	.885	.865	.804	.775	.746	.719	.688	.642
32	1.00	1.00	1.00	1.00	1.00	1.00	.998	.994	.990	.952	.929	.910	.890	.873	.815	.788	.758	.729	.702	.654
33	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.994	.992	.958	.935	.919	.898	.877	.823	.798	.771	.742	.713	.667
34	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.998	.994	.963	.942	.925	.906	.885	.831	.806	.783	.754	.725	.675
35	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.996	.967	.948	.931	.915	.894	.840	.815	.792	.767	.738	.685
36	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.998	.971	.952	.938	.921	.902	.848	.827	.800	.777	.750	.696
37	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.975	.956	.944	.927	.910	.856	.835	.813	.785	.760	.706
38	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.979	.960	.948	.933	.917	.865	.844	.823	.798	.771	.715
39	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.983	.965	.952	.940	.923	.873	.852	.831	.808	.783	.723
40	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.985	.969	.956	.944	.929	.881	.860	.840	.819	.794	.733

TOTAL OBSERVATIONS 490

TABLE 11, 8, a, P(M < W) I CONSECUTIVE LAUNCH OPPORTUNITIES IN J PERIODS (W = 55 M/SEC),  
 BASED ON MAXIMUM WIND SPEEDS IN THE 10-15 KM LAYER OVER CAPE KENNEDY, FLORIDA,  
 PERIOD OF RECORD JANUARY 1956 - DECEMBER 1963.

CAPF KENNEDY, FLORIDA NOVEMBER  
SPEEDS LESS THAN 055 MPS

P ( I SUCCESSSES IN J PERIODS )

J	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
1	.923																			
2	.946	.896																		
3	.958	.925	.873																	
4	.969	.940	.910	.850																
5	.977	.950	.929	.896	.827															
6	.985	.958	.942	.919	.883	.802														
7	.990	.969	.952	.933	.908	.869	.779													
8	.992	.973	.967	.946	.925	.896	.856	.754												
9	.994	.975	.971	.965	.940	.915	.885	.844	.729											
10	.996	.977	.973	.969	.963	.931	.904	.875	.829	.704										
11	.998	.979	.975	.971	.967	.960	.921	.894	.863	.917	.679									
12	1.00	.981	.977	.973	.969	.965	.958	.910	.881	.852	.800	.654								
13	1.00	.985	.979	.975	.971	.967	.963	.956	.900	.867	.838	.783	.629							
14	1.00	.990	.981	.977	.973	.969	.965	.960	.954	.985	.852	.823	.767	.608						
15	1.00	.992	.985	.979	.975	.971	.967	.963	.958	.948	.871	.836	.808	.750	.588					
16	1.00	.994	.988	.983	.977	.973	.969	.965	.960	.954	.944	.856	.821	.794	.731	.569				
17	1.00	.996	.990	.985	.981	.975	.971	.967	.963	.958	.950	.940	.840	.804	.777	.715	.552			
18	1.00	.998	.992	.988	.983	.979	.973	.969	.965	.960	.956	.944	.933	.823	.790	.760	.700	.535		
19	1.00	1.00	.994	.990	.985	.981	.977	.971	.957	.963	.958	.950	.938	.927	.806	.775	.746	.683	.519	
20	1.00	1.00	.998	.992	.988	.983	.979	.975	.969	.965	.960	.952	.944	.931	.917	.792	.763	.731	.667	.502
21	1.00	1.00	1.00	.996	.990	.985	.981	.977	.973	.967	.963	.956	.946	.938	.923	.908	.779	.750	.717	.650
22	1.00	1.00	1.00	1.00	.994	.988	.983	.979	.975	.971	.965	.960	.950	.940	.929	.917	.900	.767	.738	.700
23	1.00	1.00	1.00	1.00	1.00	.992	.985	.981	.977	.973	.969	.963	.958	.944	.933	.921	.910	.892	.754	.721
24	1.00	1.00	1.00	1.00	1.00	1.00	.990	.983	.979	.975	.971	.967	.960	.956	.938	.927	.913	.904	.883	.738
25	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.988	.981	.977	.973	.969	.965	.958	.952	.931	.919	.906	.898	.871
26	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.985	.979	.975	.971	.967	.963	.954	.948	.923	.913	.900	.890
27	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.983	.977	.973	.969	.965	.958	.950	.942	.917	.906	.894
28	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.981	.975	.971	.967	.963	.954	.946	.935	.910	.900
29	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.979	.973	.969	.965	.960	.950	.942	.929	.904
30	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.977	.971	.967	.963	.956	.944	.938	.923
31	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.975	.969	.965	.958	.952	.942	.933
32	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.973	.967	.963	.954	.948	.938
33	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.971	.965	.960	.950	.944
34	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.969	.963	.958	.946
35	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.967	.960	.956
36	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.965	.958
37	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.963
38	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
39	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
40	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00

TOTAL OBSERVATIONS 480

TABLE 11. 9.b. P(W < W\*) I LAUNCH OPPORTUNITIES IN J PERIODS (W\* = 55 M/SEC).  
BASED ON MAXIMUM WIND SPEEDS IN THE 10-15 KM LAYER OVER CAPE KENNEDY, FLORIDA.  
PERIOD OF RECORD JANUARY 1956 - DECEMBER 1963.



CAPF KENNEDY, FLORIDA NOVEMBER  
SPEEDS LESS THAN 060 MPS

PC ( I CONSECUTIVE SUCCESSES IN J PERIODS )

	I																			
J	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
1	.940																			
2	.958	.917																		
3	.969	.935	.894																	
4	.979	.954	.910	.873																
5	.985	.967	.927	.888	.856															
6	.992	.977	.946	.902	.871	.838														
7	.994	.985	.958	.919	.885	.852	.819													
8	.996	.992	.971	.935	.902	.867	.833	.798												
9	.998	.994	.979	.948	.919	.883	.848	.813	.777											
10	1.00	.996	.985	.958	.935	.900	.865	.827	.790	.756										
11	1.00	.998	.988	.965	.948	.917	.881	.844	.802	.760	.735									
12	1.00	1.00	.990	.969	.958	.933	.898	.860	.817	.781	.748	.715								
13	1.00	1.00	.992	.971	.965	.946	.915	.877	.831	.794	.760	.727	.694							
14	1.00	1.00	.994	.973	.969	.956	.931	.894	.846	.806	.773	.740	.706	.675						
15	1.00	1.00	.996	.975	.971	.963	.944	.910	.860	.819	.785	.752	.719	.688	.656					
16	1.00	1.00	.998	.977	.973	.967	.952	.929	.875	.831	.798	.765	.731	.700	.667	.640				
17	1.00	1.00	1.00	.979	.975	.969	.958	.940	.892	.844	.810	.777	.744	.713	.677	.650	.625			
18	1.00	1.00	1.00	.981	.977	.971	.965	.948	.908	.858	.823	.790	.756	.725	.688	.660	.635	.610		
19	1.00	1.00	1.00	.983	.979	.973	.967	.956	.921	.873	.838	.802	.769	.738	.698	.671	.646	.621	.596	
20	1.00	1.00	1.00	.985	.981	.975	.969	.963	.931	.882	.852	.817	.781	.750	.708	.681	.656	.631	.606	.581
21	1.00	1.00	1.00	.988	.983	.979	.971	.965	.940	.892	.867	.831	.796	.763	.719	.692	.667	.642	.617	.592
22	1.00	1.00	1.00	.990	.985	.981	.975	.967	.946	.906	.881	.846	.810	.777	.729	.702	.677	.652	.627	.602
23	1.00	1.00	1.00	.992	.988	.983	.979	.971	.950	.915	.892	.860	.825	.792	.742	.713	.688	.663	.638	.613
24	1.00	1.00	1.00	.994	.990	.985	.981	.975	.956	.921	.900	.875	.840	.806	.754	.723	.698	.673	.648	.623
25	1.00	1.00	1.00	.996	.992	.988	.983	.979	.963	.927	.908	.885	.854	.821	.767	.733	.708	.683	.658	.633
26	1.00	1.00	1.00	.998	.994	.990	.985	.981	.969	.933	.917	.894	.869	.835	.779	.744	.719	.694	.669	.644
27	1.00	1.00	1.00	1.00	.996	.992	.988	.983	.973	.940	.923	.904	.879	.850	.792	.754	.729	.704	.679	.654
28	1.00	1.00	1.00	1.00	.998	.994	.990	.985	.975	.944	.929	.913	.890	.863	.804	.765	.740	.715	.690	.665
29	1.00	1.00	1.00	1.00	1.00	.996	.992	.988	.979	.950	.933	.919	.900	.875	.815	.775	.750	.725	.700	.675
30	1.00	1.00	1.00	1.00	1.00	.998	.994	.990	.983	.956	.940	.923	.908	.885	.827	.783	.760	.735	.710	.685
31	1.00	1.00	1.00	1.00	1.00	1.00	.996	.992	.988	.963	.948	.929	.913	.896	.838	.794	.769	.746	.721	.696
32	1.00	1.00	1.00	1.00	1.00	1.00	.998	.994	.990	.969	.954	.938	.919	.902	.848	.804	.779	.754	.731	.706
33	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.996	.992	.975	.960	.946	.927	.908	.856	.815	.790	.765	.740	.717
34	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.998	.994	.979	.967	.952	.935	.917	.865	.823	.800	.775	.750	.725
35	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.996	.983	.973	.958	.944	.925	.873	.833	.808	.785	.760	.735
36	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.998	.988	.977	.965	.950	.933	.881	.844	.819	.794	.771	.746
37	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.992	.981	.971	.956	.942	.890	.852	.831	.804	.779	.756
38	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.996	.985	.975	.963	.948	.898	.860	.840	.817	.790	.765
39	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.998	.990	.979	.969	.954	.906	.869	.848	.827	.802	.775
40	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.998	.994	.983	.973	.960	.915	.877	.856	.835	.813	.788

TOTAL OBSERVATIONS 480

TABLE 11.10.a. F(W < W\*) I CONSECUTIVE LAUNCH OPPORTUNITIES IN J PERIODS (W\* = 60 M/SEC).  
BASED ON MAXIMUM WIND SPEEDS IN THE 10-15 KM LAYER OVER CAPE KENNEDY, FLORIDA.  
PERIOD OF RECORD JANUARY 1956 - DECEMBER 1963.

CAPE KENNEDY, FLORIDA NOVEMBER  
SPEEDS LESS THAN 060 MPS

P ( I SUCCESSES IN J PERIODS )

	I																			
J	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
1	.940																			
2	.958	.917																		
3	.969	.944	.894																	
4	.979	.956	.927	.873																
5	.985	.971	.942	.910	.856															
6	.992	.979	.960	.925	.898	.838														
7	.994	.990	.971	.946	.915	.885	.819													
8	.996	.992	.985	.956	.940	.904	.875	.798												
9	.998	.994	.988	.973	.952	.933	.896	.863	.777											
10	1.00	.996	.990	.975	.971	.948	.927	.885	.848	.756										
11	1.00	1.00	.972	.977	.973	.969	.944	.919	.873	.835	.735									
12	1.00	1.00	.998	.979	.975	.971	.967	.940	.908	.863	.821	.715								
13	1.00	1.00	1.00	.985	.977	.973	.969	.965	.935	.896	.850	.804	.694							
14	1.00	1.00	1.00	.992	.981	.975	.971	.967	.963	.929	.881	.838	.788	.675						
15	1.00	1.00	1.00	.994	.990	.977	.973	.969	.965	.960	.921	.867	.825	.771	.656					
16	1.00	1.00	1.00	.996	.992	.985	.975	.971	.967	.963	.958	.913	.852	.810	.752	.640				
17	1.00	1.00	1.00	.998	.994	.988	.983	.973	.969	.965	.960	.956	.904	.838	.794	.735	.625			
18	1.00	1.00	1.00	1.00	.996	.990	.985	.981	.971	.967	.963	.958	.952	.896	.825	.777	.721	.610		
19	1.00	1.00	1.00	1.00	1.00	.992	.988	.983	.979	.969	.965	.960	.954	.948	.888	.810	.763	.706	.596	
20	1.00	1.00	1.00	1.00	1.00	.998	.990	.985	.981	.977	.967	.963	.958	.950	.944	.875	.798	.748	.692	.581
21	1.00	1.00	1.00	1.00	1.00	1.00	.996	.988	.983	.979	.975	.965	.960	.956	.946	.938	.865	.785	.733	.677
22	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.994	.985	.981	.977	.973	.963	.958	.954	.940	.931	.854	.773	.717
23	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.992	.983	.979	.975	.971	.960	.956	.952	.933	.925	.844	.756
24	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.990	.981	.977	.973	.969	.958	.954	.950	.927	.919	.829
25	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.988	.979	.975	.971	.967	.956	.952	.946	.921	.908
26	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.985	.977	.973	.969	.965	.954	.948	.942	.913
27	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.983	.975	.971	.967	.963	.950	.944	.938
28	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.981	.973	.969	.965	.960	.946	.940
29	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.979	.971	.967	.963	.958	.942
30	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.977	.969	.965	.960	.956
31	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.975	.967	.963	.958
32	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.973	.965	.960
33	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.971	.963
34	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.969
35	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
36	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
37	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
38	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
39	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
40	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00

TOTAL OBSERVATIONS 480

TABLE 11.10.b. P(N < W) I LAUNCH OPPORTUNITIES IN J PERIODS (W = 60 M/SEC).  
BASED ON MAXIMUM WIND SPEEDS IN THE 10-15 KM LAYER OVER CAPE KENNEDY, FLORIDA.  
PERIOD OF RECORD JANUARY 1956 - DECEMBER 1963.

CAPF KENNEDY . FLORIDA NOVEMBER

SPEEDS LESS THAN 065 MPS

PC ( I CONSECUTIVE SUCCESSES IN J PERIODS )

J	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	
1	.963																				
2	.975	.946																			
3	.983	.956	.931																		
4	.985	.969	.940	.919																	
5	.988	.977	.950	.925	.908																
6	.992	.981	.960	.933	.915	.896															
7	.994	.988	.969	.942	.923	.902	.883														
8	.996	.992	.977	.950	.931	.910	.890	.873													
9	.998	.994	.985	.958	.940	.919	.898	.879	.860												
10	1.00	.996	.992	.965	.950	.927	.906	.888	.867	.846											
11	1.00	.998	.994	.971	.958	.938	.915	.896	.875	.852	.831										
12	1.00	1.00	.996	.975	.965	.950	.925	.904	.883	.860	.838	.817									
13	1.00	1.00	.998	.977	.971	.958	.935	.915	.892	.869	.846	.823	.802								
14	1.00	1.00	1.00	.979	.975	.965	.946	.925	.902	.877	.854	.829	.808	.788							
15	1.00	1.00	1.00	.981	.977	.971	.954	.935	.913	.888	.863	.835	.815	.794	.773						
16	1.00	1.00	1.00	.983	.979	.975	.960	.946	.923	.898	.873	.842	.821	.800	.779	.758					
17	1.00	1.00	1.00	.985	.981	.977	.967	.952	.933	.908	.883	.850	.827	.806	.785	.765	.746				
18	1.00	1.00	1.00	.988	.983	.979	.971	.958	.942	.919	.894	.858	.835	.813	.792	.771	.752	.73			
19	1.00	1.00	1.00	.990	.985	.981	.973	.965	.950	.927	.904	.867	.844	.821	.798	.777	.758	.740	.721		
20	1.00	1.00	1.00	.992	.988	.983	.975	.969	.956	.935	.913	.875	.852	.829	.806	.783	.765	.746	.727	.708	
21	1.00	1.00	1.00	.994	.990	.985	.977	.971	.963	.942	.921	.881	.860	.838	.815	.792	.771	.752	.733	.715	
22	1.00	1.00	1.00	.996	.992	.988	.981	.973	.967	.948	.929	.888	.867	.846	.823	.800	.779	.758	.740	.721	
23	1.00	1.00	1.00	.998	.994	.990	.985	.977	.969	.954	.935	.894	.873	.852	.831	.808	.788	.767	.746	.727	
24	1.00	1.00	1.00	1.00	.996	.992	.988	.981	.973	.958	.942	.900	.879	.858	.838	.817	.796	.775	.754	.733	
25	1.00	1.00	1.00	1.00	.998	.994	.990	.985	.977	.963	.948	.906	.885	.865	.844	.823	.804	.783	.763	.742	
26	1.00	1.00	1.00	1.00	1.00	.996	.992	.988	.981	.967	.954	.915	.892	.871	.850	.829	.810	.792	.771	.750	
27	1.00	1.00	1.00	1.00	1.00	.998	.994	.990	.985	.971	.958	.925	.900	.877	.856	.835	.817	.798	.779	.758	
28	1.00	1.00	1.00	1.00	1.00	1.00	.996	.992	.988	.975	.963	.933	.910	.885	.863	.842	.823	.804	.785	.767	
29	1.00	1.00	1.00	1.00	1.00	1.00	.998	.994	.990	.979	.967	.940	.921	.896	.871	.848	.829	.810	.792	.773	
30	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.996	.992	.983	.971	.946	.929	.906	.881	.856	.835	.817	.798	.779	
31	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.998	.994	.988	.977	.952	.935	.917	.892	.867	.844	.823	.804	.785	
32	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.996	.990	.981	.960	.942	.925	.902	.877	.854	.831	.810	.792	
33	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.998	.992	.985	.969	.950	.931	.913	.888	.865	.842	.819	.798	
34	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.994	.988	.975	.958	.940	.921	.898	.875	.852	.829	.806	
35	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.996	.990	.981	.967	.948	.929	.908	.885	.863	.840	.817	
36	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.998	.992	.985	.973	.956	.938	.919	.896	.873	.850	.827	
37	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.994	.988	.979	.965	.946	.927	.908	.883	.860	.838	
38	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.998	.990	.983	.971	.954	.935	.917	.896	.871	.848	
39	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.994	.985	.977	.963	.944	.925	.906	.883	.858	
40	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.998	.990	.981	.969	.952	.933	.915	.894	.871	

TOTAL OBSERVATIONS 480

TABLE 11.11.a. P(W < W\*) I CONSECUTIVE LAUNCH OPPORTUNITIES IN J PERIODS (W\* = 65 M/SEC).  
 BASED ON MAXIMUM WIND SPEEDS IN THE 10-15 KM LAYER OVER CAPE KENNEDY, FLORIDA.  
 PERIOD OF RECORD JANUARY 1956 - DECEMBER 1963.

CAPE KENNEDY, FLORIDA - NOVEMBER  
SPEEDS LESS THAN 065 MPS

P ( I SUCCESSFUL IN J PERIODS )

	I																			
J	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
1	.963																			
2	.975	.946																		
3	.983	.963	.931																	
4	.985	.977	.950	.919																
5	.988	.981	.969	.939	.908															
6	.992	.983	.977	.956	.929	.896														
	.994	.990	.979	.967	.950	.921	.883													
8	.996	.992	.988	.967	.945	.913	.873													
9	.998	.994	.990	.975	.965	.963	.938	.906	.860											
10	1.00	.96	.932	.977	.973	.963	.950	.931	.898	.946										
11	1.00	1.00	.994	.979	.975	.971	.960	.958	.925	.890	.831									
12	1.00	1.00	1.00	.981	.977	.973	.969	.958	.956	.919	.891	.817								
13	1.00	1.00	1.00	.990	.979	.975	.971	.967	.956	.954	.913	.869	.802							
14	1.00	1.00	1.00	.992	.988	.977	.973	.969	.965	.954	.952	.904	.854	.788						
15	1.00	1.00	1.00	.994	.990	.985	.975	.971	.967	.963	.952	.948	.896	.840	.773					
16	1.00	1.00	1.00	.996	.992	.988	.983	.973	.969	.965	.960	.950	.944	.885	.825	.758				
17	1.00	1.00	1.00	.998	.994	.990	.985	.981	.971	.967	.963	.958	.948	.940	.875	.810	.746			
18	1.00	1.00	1.00	1.00	.996	.992	.988	.983	.979	.969	.965	.960	.956	.946	.935	.865	.798	.733		
19	1.00	1.00	1.00	1.00	1.00	.994	.990	.985	.981	.977	.967	.963	.958	.954	.944	.931	.854	.785	.721	
20	1.00	1.00	1.00	1.00	1.00	1.00	.992	.988	.983	.979	.975	.965	.960	.956	.952	.942	.925	.842	.773	.708
21	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.990	.985	.981	.977	.973	.963	.958	.954	.950	.938	.819	.831	.760
22	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.988	.983	.979	.975	.971	.960	.956	.952	.948	.933	.913	.821
23	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.985	.981	.977	.973	.969	.958	.954	.950	.946	.929	.906
24	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.983	.979	.975	.971	.967	.956	.952	.948	.944	.925
25	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.981	.977	.973	.969	.965	.954	.950	.946	.942
26	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.979	.975	.971	.967	.963	.952	.948	.944
27	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.977	.973	.969	.965	.960	.950	.946
28	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.975	.971	.967	.963	.958	.948
29	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.973	.969	.965	.960	.956
30	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.971	.967	.963	.958
31	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.969	.965	.960
32	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.967	.963
33	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.965
34	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
35	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
36	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
37	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
38	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
39	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
40	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00

TOTAL OBSERVATIONS 480

TABLE 11.11.b. P(W < W\*) I LAUNCH OPPORTUNITIES IN J PERIODS (W\* = 65 M/SEC).  
BASED ON MAXIMUM WIND SPEEDS IN THE 10-15 KM LAYER OVER CAPE KENNEDY, FLORIDA.  
PERIOD OF RECORD JANUARY 1956 - DECEMBER 1963.

CAPF KENNEDY, FLORIDA NOVEMBER  
SPEFDS LESS THAN 070 MPS

PC ( I CONSECUTIVE SUCCESSES IN J PERIODS )

	I																			
J	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
1	.977																			
2	.983	.967																		
3	.985	.973	.956																	
4	.988	.981	.963	.946																
5	.990	.983	.971	.950	.938															
6	.994	.985	.979	.956	.942	.929														
7	.996	.990	.981	.963	.948	.933	.921													
8	.998	.994	.985	.969	.954	.940	.925	.913												
9	1.00	.996	.990	.971	.960	.946	.931	.917	.904											
10	1.00	.998	.994	.973	.969	.952	.938	.923	.908	.894										
11	1.00	1.00	.996	.975	.971	.960	.944	.929	.915	.898	.883									
12	1.00	1.00	.998	.977	.973	.969	.952	.935	.921	.904	.888	.873								
13	1.00	1.00	1.00	.979	.975	.971	.960	.944	.927	.910	.894	.877	.858							
14	1.00	1.00	1.00	.981	.977	.973	.969	.952	.935	.917	.900	.883	.863	.844						
15	1.00	1.00	1.00	.983	.979	.975	.971	.960	.944	.925	.906	.890	.869	.848	.829					
16	1.00	1.00	1.00	.985	.981	.977	.973	.969	.952	.933	.915	.896	.875	.854	.833	.815				
17	1.00	1.00	1.00	.988	.983	.979	.975	.971	.960	.942	.923	.904	.881	.860	.840	.819	.802			
18	1.00	1.00	1.00	.990	.985	.981	.977	.973	.969	.950	.931	.913	.890	.867	.846	.825	.806	.790		
19	1.00	1.00	1.00	.992	.988	.983	.979	.975	.971	.958	.940	.921	.898	.875	.852	.831	.813	.794	.777	
20	1.00	1.00	1.00	.994	.990	.985	.981	.977	.973	.967	.948	.929	.906	.883	.860	.838	.819	.800	.781	.765
21	1.00	1.00	1.00	.996	.992	.988	.983	.979	.975	.969	.956	.938	.915	.892	.869	.846	.825	.806	.788	.769
22	1.00	1.00	1.00	.998	.994	.990	.985	.981	.977	.971	.965	.946	.923	.900	.877	.854	.833	.813	.794	.775
23	1.00	1.00	1.00	1.00	.996	.992	.988	.983	.979	.973	.967	.954	.931	.908	.885	.863	.842	.821	.800	.781
24	1.00	1.00	1.00	1.00	.998	.994	.990	.985	.981	.975	.969	.963	.940	.917	.894	.871	.850	.829	.808	.788
25	1.00	1.00	1.00	1.00	1.00	.996	.992	.988	.983	.977	.971	.965	.948	.925	.902	.879	.858	.838	.817	.796
26	1.00	1.00	1.00	1.00	1.00	.998	.994	.990	.985	.979	.973	.967	.958	.933	.910	.888	.867	.846	.825	.804
27	1.00	1.00	1.00	1.00	1.00	1.00	.996	.992	.988	.981	.975	.969	.960	.942	.919	.896	.875	.854	.833	.813
28	1.00	1.00	1.00	1.00	1.00	1.00	.998	.994	.990	.983	.977	.971	.965	.950	.927	.904	.883	.863	.842	.821
29	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.996	.992	.985	.979	.973	.967	.954	.935	.913	.892	.871	.850	.829
30	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.998	.994	.990	.981	.975	.969	.958	.946	.921	.900	.879	.858	.838
31	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.996	.992	.985	.977	.971	.960	.950	.931	.908	.888	.867	.846
32	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.998	.994	.990	.981	.973	.963	.954	.942	.919	.896	.875	.854
33	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.996	.992	.985	.977	.965	.956	.946	.929	.906	.883	.863
34	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.998	.994	.990	.981	.969	.958	.950	.938	.917	.894	.871
35	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.996	.992	.985	.973	.963	.952	.942	.925	.904	.881
36	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.998	.994	.990	.977	.967	.956	.946	.933	.913	.892
37	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.996	.992	.981	.971	.960	.950	.938	.921	.900
38	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.998	.994	.985	.975	.965	.954	.944	.929	.908
39	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.996	.988	.979	.969	.958	.948	.935	.917
40	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.998	.990	.988	.973	.963	.952	.942	.927

TOTAL OBSERVATIONS 440

TABLE 11.12.a. P(W < W\*) I CONSECUTIVE LAUNCH OPPORTUNITIES IN J PERIODS (W\* = 70 M-SEC).  
BASED ON MAXIMUM WIND SPEEDS IN THE 10-15 KM LAYER OVER CAPE KENNEDY, FLORIDA.  
PERIOD OF RECORD JANUARY 1956 - DECEMBER 1963.

CAPE KENNEDY . FLORIDA NOVEMBER  
SPEEDS LESS THAN 070 MPS

P ( I SUCCESSES IN J PERIODS )

	I																			
J	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
1	.977																			
2	.983	.967																		
3	.985	.979	.956																	
4	.988	.981	.975	.946																
5	.990	.983	.977	.969	.938															
6	.994	.985	.979	.969	.967	.929														
7	.996	.992	.981	.969	.967	.965	.921													
8	.998	.994	.990	.969	.967	.965	.963	.913												
9	1.00	.996	.992	.977	.967	.965	.963	.960	.904											
10	1.00	1.00	.994	.979	.975	.965	.963	.960	.958	.894										
11	1.00	1.00	1.00	.981	.977	.973	.963	.960	.958	.956	.883									
12	1.00	1.00	1.00	.990	.979	.975	.971	.960	.958	.956	.954	.873								
13	1.00	1.00	1.00	.992	.988	.977	.973	.969	.958	.956	.954	.952	.858							
14	1.00	1.00	1.00	.994	.990	.985	.975	.971	.967	.956	.954	.952	.948	.844						
15	1.00	1.00	1.00	.996	.992	.988	.983	.973	.969	.965	.954	.952	.948	.944	.829					
16	1.00	1.00	1.00	.998	.994	.990	.985	.981	.971	.967	.963	.952	.950	.944	.940	.815				
17	1.00	1.00	1.00	1.00	.996	.992	.988	.983	.979	.969	.965	.960	.950	.948	.940	.935	.802			
18	1.00	1.00	1.00	1.00	1.00	.994	.990	.985	.981	.977	.967	.963	.958	.948	.946	.935	.931	.790		
19	1.00	1.00	1.00	1.00	1.00	1.00	.992	.988	.983	.979	.975	.965	.960	.956	.946	.944	.931	.927	.777	
20	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.990	.985	.981	.977	.973	.963	.958	.954	.944	.942	.927	.921	.765
21	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.988	.983	.979	.975	.971	.960	.956	.952	.942	.940	.923	.915
22	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.985	.981	.977	.973	.969	.958	.954	.950	.940	.938	.919
23	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.983	.979	.975	.971	.967	.956	.952	.948	.938	.935
24	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.981	.977	.973	.969	.965	.954	.950	.946	.935
25	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.979	.975	.971	.967	.963	.952	.948	.944
26	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.977	.973	.969	.965	.960	.950	.946
27	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.975	.971	.967	.963	.958	.948
28	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.973	.969	.965	.960	.956
29	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.971	.967	.963	.958
30	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.969	.965	.960
31	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.967	.963
32	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.965
33	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
34	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
35	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
36	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
37	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
38	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
39	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
40	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00

TOTAL OBSERVATIONS 490

TABLE 11.12.b. P(W < W\*) I LAUNCH OPPORTUNITIES IN J PERIODS (W\* = 70 M/SEC).  
BASED ON MAXIMUM WIND SPEEDS IN THE 10-15 KM LAYER OVER CAPE KENNEDY, FLORIDA.  
PERIOD OF RECORD JANUARY 1956 - DECEMBER 1963.

CAPE KENNEDY . FLORIDA NOVEMBER  
SPEEDS LESS THAN 075 MPS

PC ( I CONSECUTIVE SUCCESSES IN J PERIODS )

I

J	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
1	.985																			
2	.990	.979																		
3	.992	.983	.973																	
4	.994	.988	.977	.967																
5	.996	.990	.981	.971	.960															
6	.998	.994	.985	.975	.965	.954														
7	1.00	.996	.990	.979	.969	.958	.948													
8	1.00	.998	.994	.985	.973	.963	.950	.944												
9	1.00	1.00	.996	.990	.979	.967	.952	.946	.940											
10	1.00	1.00	.998	.994	.985	.973	.954	.948	.942	.933										
11	1.00	1.00	1.00	.996	.990	.979	.958	.950	.944	.935	.927									
12	1.00	1.00	1.00	.998	.994	.985	.963	.954	.946	.938	.929	.921								
13	1.00	1.00	1.00	1.00	.996	.990	.967	.958	.950	.940	.931	.923	.915							
14	1.00	1.00	1.00	1.00	.998	.994	.971	.963	.954	.944	.933	.925	.917	.908						
15	1.00	1.00	1.00	1.00	1.00	.996	.973	.967	.958	.948	.938	.927	.919	.910	.900					
16	1.00	1.00	1.00	1.00	1.00	.998	.975	.971	.963	.952	.942	.931	.921	.913	.902	.892				
17	1.00	1.00	1.00	1.00	1.00	1.00	.977	.973	.967	.956	.946	.935	.925	.915	.904	.894	.883			
18	1.00	1.00	1.00	1.00	1.00	1.00	.979	.975	.971	.960	.950	.940	.929	.919	.906	.896	.885	.875		
19	1.00	1.00	1.00	1.00	1.00	1.00	.981	.977	.973	.965	.954	.944	.933	.923	.910	.898	.888	.877	.867	
20	1.00	1.00	1.00	1.00	1.00	1.00	.983	.979	.975	.971	.958	.948	.938	.927	.915	.902	.890	.879	.869	.858
21	1.00	1.00	1.00	1.00	1.00	1.00	.985	.981	.977	.973	.965	.952	.942	.931	.919	.906	.894	.881	.871	.860
22	1.00	1.00	1.00	1.00	1.00	1.00	.988	.983	.979	.975	.971	.958	.946	.935	.923	.910	.898	.885	.873	.863
23	1.00	1.00	1.00	1.00	1.00	1.00	.990	.985	.981	.977	.973	.965	.952	.940	.927	.915	.902	.890	.877	.865
24	1.00	1.00	1.00	1.00	1.00	1.00	.992	.988	.983	.979	.975	.971	.958	.946	.931	.919	.906	.894	.881	.869
25	1.00	1.00	1.00	1.00	1.00	1.00	.994	.990	.985	.981	.977	.973	.965	.952	.938	.923	.910	.898	.885	.873
26	1.00	1.00	1.00	1.00	1.00	1.00	.996	.992	.988	.983	.979	.975	.971	.958	.944	.929	.915	.902	.890	.877
27	1.00	1.00	1.00	1.00	1.00	1.00	.998	.994	.990	.985	.981	.977	.973	.965	.950	.935	.921	.906	.894	.881
28	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.996	.992	.988	.983	.979	.975	.971	.956	.942	.927	.913	.898	.885
29	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.998	.994	.990	.985	.981	.977	.973	.963	.948	.933	.919	.904	.890
30	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.996	.992	.988	.983	.979	.975	.971	.954	.940	.925	.910	.896
31	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.998	.994	.990	.985	.981	.977	.973	.963	.946	.931	.917	.902
32	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.996	.992	.988	.983	.979	.975	.971	.954	.938	.923	.908
33	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.998	.994	.990	.985	.981	.977	.973	.963	.946	.929	.915
34	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.996	.992	.988	.983	.979	.975	.971	.954	.938	.921
35	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.998	.994	.990	.985	.981	.977	.973	.963	.946	.929
36	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.996	.992	.988	.983	.979	.975	.971	.954	.938	
37	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.998	.994	.990	.985	.981	.977	.973	.963	.946	
38	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.996	.992	.988	.983	.979	.975	.971	.954	
39	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.998	.994	.990	.985	.981	.977	.973	.963	
40	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.996	.992	.988	.983	.979	.975	.971

TOTAL OBSERVATIONS 480

TABLE 11, 13, a, P(W < W\*) I CONSECUTIVE LAUNCH OPPORTUNITIES IN J PERIODS (W\* = 75 M/SEC).  
BASED ON MAXIMUM WIND SPEEDS IN THE 10-15 KM LAYER OVER CAPE KENNEDY, FLORIDA.  
PERIOD OF RECORD JANUARY 1956 - DECEMBER 1963.

CAPE KENNEDY, FLORIDA NOVEMBER  
SPEEDS LESS THAN 075 MPS

P ( I SUCCESSES IN J PERIODS )

I

J	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
1	.985																			
2	.990	.979																		
3	.952	.985	.973																	
4	.994	.988	.981	.967																
5	.994	.992	.983	.977	.960															
6	.998	.994	.990	.979	.973	.954														
7	1.00	.996	.992	.988	.975	.969	.948													
8	1.00	1.00	.994	.990	.985	.971	.963	.944												
9	1.00	1.00	1.00	.992	.988	.983	.963	.960	.940											
10	1.00	1.00	1.00	1.00	.990	.985	.975	.960	.958	.933										
11	1.00	1.00	1.00	1.00	1.00	.988	.977	.973	.958	.956	.927									
12	1.00	1.00	1.00	1.00	1.00	1.00	.979	.975	.971	.956	.954	.921								
13	1.00	1.00	1.00	1.00	1.00	1.00	.994	.977	.973	.969	.954	.952	.915							
14	1.00	1.00	1.00	1.00	1.00	1.00	.996	.992	.975	.971	.967	.952	.950	.908						
15	1.00	1.00	1.00	1.00	1.00	1.00	.998	.994	.990	.973	.969	.965	.950	.948	.900					
16	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.996	.992	.988	.971	.967	.963	.948	.946	.892				
17	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.994	.990	.985	.969	.965	.960	.946	.944	.883			
18	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.992	.988	.983	.967	.963	.958	.944	.942	.875		
19	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.990	.985	.981	.965	.960	.956	.942	.940	.867	
20	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.988	.983	.979	.963	.958	.954	.940	.938	.858
21	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.985	.981	.977	.960	.956	.952	.938	.935
22	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.983	.979	.975	.958	.954	.950	.935
23	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.981	.977	.973	.956	.952	.948
24	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.979	.975	.971	.954	.950
25	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.977	.973	.969	.952
26	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.975	.971	.967
27	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.973	.969
28	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.971
29	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
30	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
31	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
32	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
33	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
34	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
35	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
36	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
37	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
38	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
39	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
40	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00

TOTAL OBSERVATIONS 480

TABLE 11.13.b. P(W < W\*) I LAUNCH OPPORTUNITIES IN J PERIODS (W\* = 75 M/SEC).  
BASED ON MAXIMUM WIND SPEEDS IN THE 10-15 KM LAYER OVER CAPE KENNEDY, FLORIDA.  
PERIOD OF RECORD JANUARY 1956 - DECEMBER 1963.



CAPE KENNEDY, FLORIDA NOVEMBER

SPEEDS LESS THAN 300 MPS

PC ( I CONSECUTIVE SUCCESSES IN J PERIODS )

J	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
1	.990																			
2	.994	.985																		
3	.998	.988	.982																	
4	1.00	.990	.985	.981																
5	1.00	.992	.988	.983	.979															
6	1.00	.994	.990	.985	.981	.977														
7	1.00	.996	.992	.988	.983	.979	.975													
8	1.00	.999	.994	.990	.985	.981	.977	.973												
9	1.00	1.00	.996	.992	.988	.983	.979	.975	.971											
10	1.00	1.00	.998	.994	.990	.985	.981	.977	.973	.967										
11	1.00	1.00	1.00	.996	.992	.988	.983	.979	.975	.969	.963									
12	1.00	1.00	1.00	.998	.994	.990	.985	.981	.977	.971	.965	.954								
13	1.00	1.00	1.00	1.00	.996	.992	.988	.983	.979	.973	.967	.960	.954							
14	1.00	1.00	1.00	1.00	.998	.994	.990	.985	.981	.975	.969	.963	.956	.950						
15	1.00	1.00	1.00	1.00	1.00	.996	.992	.988	.983	.977	.971	.965	.958	.952	.946					
16	1.00	1.00	1.00	1.00	1.00	.998	.994	.990	.985	.979	.973	.967	.960	.954	.948	.942				
17	1.00	1.00	1.00	1.00	1.00	1.00	.996	.992	.988	.981	.975	.969	.963	.956	.950	.944	.938			
18	1.00	1.00	1.00	1.00	1.00	1.00	.998	.994	.990	.983	.977	.971	.965	.958	.952	.946	.940	.933		
19	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.996	.992	.985	.979	.973	.967	.960	.954	.948	.942	.935	.929	
20	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.998	.994	.990	.981	.975	.969	.963	.956	.950	.944	.938	.931	.925
21	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.996	.992	.985	.977	.971	.965	.958	.952	.946	.940	.933	.927
22	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.998	.994	.990	.981	.973	.967	.960	.954	.948	.942	.935	.929
23	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.996	.992	.985	.977	.969	.963	.956	.950	.944	.938	.931
24	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.998	.994	.990	.981	.973	.965	.958	.952	.946	.940	.933
25	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.996	.992	.985	.977	.969	.960	.954	.948	.942	.935
26	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.998	.994	.990	.981	.973	.965	.956	.950	.944	.938
27	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.994	.992	.985	.977	.969	.960	.952	.946	.940
28	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.998	.994	.990	.981	.973	.965	.954	.948	.942
29	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.996	.992	.985	.977	.969	.960	.952	.944
30	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.998	.994	.990	.981	.973	.965	.956
31	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.996	.992	.985	.977	.969	.960	.952
32	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.998	.994	.990	.981	.973	.965	.956
33	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.996	.992	.985	.977	.969	.960
34	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.998	.994	.990	.981	.973	.965
35	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.996	.992	.985	.977	.969
36	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.998	.994	.990	.981	.973
37	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.996	.992	.985	.977	.969
38	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.998	.994	.990	.981	.973
39	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.996	.992	.985	.977
40	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.998	.994	.990

TOTAL OBSERVATIONS 490

TABLE 11.14.a. P(W < W0) I CONSECUTIVE LAUNCH OPPORTUNITIES IN J PERIODS (W0 = 30 M/SEC).  
 BASED ON MAXIMUM WIND SPEEDS IN THE 10-15 KM LAYER OVER CAPE KENNEDY, FLORIDA.

CAPE KENNEDY, FLORIDA NOVEMBER  
SPEEDS LESS THAN 80 KPS

P ( I SUCCESSSES IN J PERIODS )

	I																			
J	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
1	.990																			
2	.994	.985																		
3	.998	.988	.983																	
4	1.00	.992	.985	.981																
5	1.00	.996	.990	.983	.979															
6	1.00	.998	.994	.988	.981	.977														
7	1.00	1.00	.996	.992	.985	.979	.975													
8	1.00	1.00	1.00	.994	.990	.983	.977	.973												
9	1.00	1.00	1.00	1.00	.992	.988	.981	.975	.971											
10	1.00	1.00	1.00	1.00	1.00	.990	.985	.979	.973	.967										
11	1.00	1.00	1.00	1.00	1.00	1.00	.988	.983	.977	.971	.963									
12	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.985	.981	.975	.969	.958								
13	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.983	.979	.973	.967	.954							
14	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.981	.977	.971	.965	.950						
15	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.979	.975	.969	.963	.946					
16	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.977	.973	.967	.960	.942				
17	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.975	.971	.965	.958	.938			
18	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.973	.969	.963	.956	.933		
19	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.971	.967	.960	.954	.929	
20	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.969	.965	.958	.952	.925
21	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.967	.963	.956	.950
22	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.965	.960	.954
23	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.963	.958
24	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.960
25	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
26	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
27	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
28	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
29	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
30	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
31	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
32	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
33	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
34	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
35	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
36	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
37	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
38	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
39	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
40	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00

TOTAL OBSERVATIONS 490

TABLE 11.14.b. P(W < W<sub>0</sub>) I LAUNCH OPPORTUNITIES IN J PERIODS (W<sub>0</sub> = 80 M/SEC).  
BASED ON MAXIMUM WIND SPEEDS IN THE 10-15 KM LAYER OVER CAPE KENNEDY, FLORIDA.  
PERIOD OF RECORD JANUARY 1956 - DECEMBER 1963.

CAPF KENNEDY , FLORIDA DECEMBER  
SPEEDS LESS THAN 20 MPH

P ( I CONSECUTIVE SUCCESSSES IN J PERIODS )

	I																			
J	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
1	.022																			
2	.032	.012																		
3	.042	.016	.008																	
4	.052	.020	.010	.006																
5	.063	.024	.012	.008	.004															
6	.073	.028	.014	.010	.006	.002														
7	.083	.032	.016	.012	.008	.004	.000													
8	.091	.036	.018	.014	.010	.006	.000	.000												
9	.099	.038	.020	.016	.012	.008	.000	.000	.000											
10	.107	.040	.022	.018	.014	.010	.000	.000	.000	.000										
11	.115	.042	.024	.020	.016	.012	.000	.000	.000	.000	.000									
12	.122	.044	.026	.022	.018	.014	.000	.000	.000	.000	.000	.000								
13	.129	.046	.028	.024	.020	.016	.000	.000	.000	.000	.000	.000	.000							
14	.135	.048	.030	.026	.022	.018	.000	.000	.000	.000	.000	.000	.000	.000						
15	.139	.050	.032	.028	.024	.020	.000	.000	.000	.000	.000	.000	.000	.000	.000					
16	.143	.050	.034	.030	.026	.022	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000				
17	.147	.050	.034	.032	.028	.024	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000			
18	.151	.050	.034	.032	.030	.026	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000		
19	.155	.050	.034	.032	.030	.028	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	
20	.159	.050	.034	.032	.030	.028	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
21	.163	.050	.034	.032	.030	.028	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
22	.167	.050	.034	.032	.030	.028	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
23	.171	.050	.034	.032	.030	.028	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
24	.175	.050	.034	.032	.030	.028	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
25	.179	.050	.034	.032	.030	.028	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
26	.183	.050	.034	.032	.030	.028	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
27	.188	.050	.034	.032	.030	.028	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
28	.192	.050	.034	.032	.030	.028	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
29	.196	.050	.034	.032	.030	.028	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
30	.200	.050	.034	.032	.030	.028	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
31	.204	.050	.034	.032	.030	.028	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
32	.208	.050	.034	.032	.030	.028	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
33	.212	.050	.034	.032	.030	.028	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
34	.215	.050	.034	.032	.030	.028	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
35	.218	.050	.034	.032	.030	.028	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
36	.220	.050	.034	.032	.030	.028	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
37	.222	.050	.034	.032	.030	.028	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
38	.224	.050	.034	.032	.030	.028	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
39	.226	.050	.034	.032	.030	.028	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
40	.228	.050	.034	.032	.030	.028	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000

TOTAL OBSERVATIONS 496

TABLE 12, 1.a. P(W < W0) I CONSECUTIVE LAUNCH OPPORTUNITIES IN J PERIODS (W0 = 20 M/SEC).  
BASED ON MAXIMUM WIND SPEEDS IN THE 10-15 KM LAYER OVER CAPF KENNEDY, FLORIDA.  
PERIOD OF RECORD JAN '64 - DECEMBER 1965.

CAPF KENNEDY , FLORIDA DECEMBER  
SPEEDS LESS THAN 020 MPS

P ( I SUCCESSES IN J PERIODS )

I

J	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
1	.022																			
2	.032	.012																		
3	.042	.016	.008																	
4	.052	.020	.010	.006																
5	.063	.024	.012	.008	.004															
6	.073	.028	.014	.010	.006	.002														
7	.083	.032	.016	.012	.008	.004	.000													
8	.091	.036	.018	.014	.010	.006	.000	.000												
9	.099	.038	.020	.016	.012	.008	.000	.000	.000											
10	.107	.040	.022	.018	.014	.010	.000	.000	.000	.000										
11	.115	.042	.024	.020	.016	.012	.000	.000	.000	.000	.000									
12	.123	.044	.026	.022	.018	.014	.000	.060	.000	.000	.000	.000								
13	.129	.048	.028	.024	.020	.016	.000	.000	.000	.000	.000	.000	.000							
14	.135	.052	.030	.026	.022	.018	.000	.000	.000	.000	.000	.000	.000	.000						
15	.139	.056	.032	.028	.024	.020	.000	.000	.000	.000	.000	.000	.000	.000	.000					
16	.143	.058	.034	.030	.026	.022	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000				
17	.147	.060	.034	.032	.028	.024	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000			
18	.151	.063	.034	.032	.030	.026	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000		
19	.155	.065	.034	.032	.030	.028	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	
20	.159	.067	.034	.032	.030	.028	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
21	.163	.069	.034	.032	.030	.028	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
22	.167	.071	.034	.032	.030	.028	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.030	.000
23	.171	.073	.034	.032	.030	.028	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
24	.175	.075	.034	.032	.030	.028	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
25	.179	.077	.034	.032	.030	.028	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
26	.183	.079	.034	.032	.030	.028	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
27	.188	.081	.034	.032	.030	.028	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
28	.192	.083	.034	.032	.030	.028	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
29	.196	.085	.034	.032	.030	.028	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
30	.200	.087	.034	.032	.030	.028	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
31	.204	.089	.034	.032	.030	.028	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
32	.208	.091	.034	.032	.030	.028	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
33	.212	.093	.034	.032	.030	.028	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
34	.216	.095	.034	.032	.030	.028	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
35	.218	.097	.034	.032	.030	.028	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
36	.220	.099	.034	.032	.030	.028	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
37	.222	.101	.034	.032	.030	.028	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
38	.224	.103	.034	.032	.030	.028	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
39	.226	.105	.034	.032	.030	.028	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
40	.228	.107	.034	.032	.030	.028	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000

TOTAL OBSERVATIONS 496

TABLE 12. 1.b. P(W < W\*) I LAUNCH OPPORTUNITIES IN J PERIODS (W\* = 20 M/SEC).  
BASED ON MAXIMUM WIND SPEEDS IN THE 10-15 KM LAYER OVER CAPE KENNEDY, FLORIDA.  
PERIOD OF RECORD JANUARY 1956 - DECEMBER 1963.

CAPE KENNEDY, FLORIDA DECEMBER

SPEEDS LESS THAN 25 MPS

PC ( I CONSECUTIVE SUCCESSSES IN J PERIODS )

J	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
1	.119																			
2	.161	.075																		
3	.194	.109	.038																	
4	.216	.143	.052	.024																
5	.234	.167	.067	.034	.014															
6	.252	.185	.081	.044	.018	.010														
7	.268	.202	.095	.054	.022	.012	.008													
8	.284	.218	.107	.065	.026	.014	.010	.006												
9	.296	.234	.117	.075	.030	.016	.012	.008	.004											
10	.308	.248	.127	.083	.034	.018	.014	.010	.006	.002										
11	.321	.260	.137	.091	.038	.020	.016	.012	.008	.004	.000									
12	.331	.272	.147	.099	.042	.022	.018	.014	.010	.006	.000	.000								
13	.341	.284	.157	.107	.046	.024	.020	.016	.012	.008	.000	.000	.000							
14	.347	.294	.165	.115	.050	.026	.022	.018	.014	.010	.000	.000	.000	.000						
15	.353	.302	.171	.121	.054	.028	.024	.020	.016	.012	.000	.000	.000	.000	.000					
16	.359	.308	.177	.127	.056	.030	.026	.022	.018	.014	.000	.000	.000	.000	.000	.000				
17	.365	.315	.183	.133	.058	.030	.028	.024	.020	.016	.000	.000	.000	.000	.000	.000	.000			
18	.371	.321	.188	.139	.060	.030	.028	.026	.022	.018	.000	.000	.000	.000	.000	.000	.000	.000		
19	.375	.327	.192	.145	.063	.030	.028	.026	.024	.020	.000	.000	.000	.000	.000	.000	.000	.000	.000	
20	.381	.333	.196	.149	.065	.030	.028	.026	.024	.022	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
21	.387	.341	.200	.153	.067	.030	.028	.026	.024	.022	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
22	.393	.349	.204	.157	.069	.030	.028	.026	.024	.022	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
23	.399	.357	.208	.161	.071	.030	.028	.026	.024	.022	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
24	.405	.365	.212	.165	.073	.030	.028	.026	.024	.022	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
25	.411	.373	.216	.169	.075	.030	.028	.026	.024	.022	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
26	.417	.381	.220	.173	.077	.030	.028	.026	.024	.022	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
27	.423	.389	.224	.177	.079	.030	.028	.026	.024	.022	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
28	.429	.397	.228	.181	.081	.030	.028	.026	.024	.022	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
29	.435	.405	.232	.185	.083	.030	.028	.026	.024	.022	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
30	.442	.413	.236	.190	.085	.030	.028	.026	.024	.022	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
31	.448	.421	.240	.194	.087	.030	.028	.026	.024	.022	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
32	.454	.429	.244	.198	.089	.030	.028	.026	.024	.022	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
33	.460	.435	.248	.202	.091	.030	.028	.026	.024	.022	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
34	.464	.442	.250	.206	.093	.030	.028	.026	.024	.022	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
35	.468	.448	.252	.208	.095	.030	.028	.026	.024	.022	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
36	.470	.452	.254	.210	.095	.030	.028	.026	.024	.022	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
37	.472	.456	.256	.212	.095	.030	.028	.026	.024	.022	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
38	.474	.458	.258	.214	.095	.030	.028	.026	.024	.022	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
39	.476	.460	.260	.216	.095	.030	.028	.026	.024	.022	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
40	.478	.462	.262	.218	.095	.030	.028	.026	.024	.022	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
TOTAL OBSERVATIONS 496																				

TABLE 12. 2.a. P(W < W\*) I CONSECUTIVE LAUNCH OPPORTUNITIES IN J PERIODS (W\* = 25 M/SEC).  
 BASED ON MAXIMUM WIND SPEEDS IN THE 10-15 KM LAYER OVER CAPE KENNEDY, FLORIDA.  
 PERIOD OF RECORD JANUARY 1956 - DECEMBER 1963.

CAPE KENNEDY, FLORIDA DECEMBER

SPEEDS LESS THAN 025 MPS

P ( I SUCCESSSES IN J PERIODS )

	I																			
J	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
1	.119																			
2	.161	.075																		
3	.194	.119	.038																	
4	.216	.153	.071	.024																
5	.234	.177	.097	.052	.014															
6	.252	.196	.117	.079	.032	.010														
7	.268	.216	.127	.103	.052	.020	.008													
8	.284	.232	.139	.117	.075	.034	.014	.006												
9	.296	.250	.149	.127	.093	.050	.022	.012	.004											
10	.308	.260	.165	.135	.107	.067	.030	.018	.010	.002										
11	.321	.270	.175	.149	.117	.083	.045	.022	.016	.008	.000									
12	.331	.282	.183	.159	.129	.093	.054	.030	.018	.014	.004	.000								
13	.341	.290	.196	.167	.134	.101	.063	.044	.024	.016	.010	.002	.000							
14	.347	.298	.200	.183	.145	.111	.069	.052	.034	.022	.014	.006	.000	.000						
15	.353	.304	.204	.188	.163	.115	.079	.058	.040	.030	.020	.012	.000	.000	.000					
16	.359	.310	.208	.192	.167	.133	.083	.069	.044	.034	.028	.018	.004	.000	.000	.000				
17	.365	.317	.212	.196	.171	.139	.099	.073	.052	.038	.030	.026	.016	.002	.000	.000	.000			
18	.371	.323	.216	.200	.175	.143	.109	.083	.056	.044	.032	.028	.020	.016	.000	.000	.000	.000		
19	.375	.331	.220	.204	.179	.147	.113	.093	.065	.044	.036	.030	.022	.014	.000	.000	.000	.000	.000	
20	.381	.337	.226	.208	.183	.151	.115	.099	.075	.052	.034	.034	.024	.020	.010	.000	.000	.000	.000	.000
21	.387	.345	.230	.214	.188	.155	.117	.101	.085	.060	.038	.034	.028	.022	.014	.006	.000	.000	.000	.000
22	.393	.353	.234	.218	.194	.159	.119	.101	.091	.071	.042	.036	.030	.024	.016	.012	.002	.000	.000	.000
23	.399	.361	.238	.222	.198	.165	.121	.101	.091	.073	.050	.038	.034	.028	.020	.014	.008	.000	.000	.000
24	.405	.369	.242	.226	.202	.171	.123	.101	.091	.081	.058	.044	.034	.032	.022	.018	.010	.004	.000	.000
25	.411	.377	.246	.230	.206	.177	.125	.101	.091	.083	.060	.052	.036	.032	.026	.020	.014	.006	.002	.000
26	.417	.385	.250	.234	.210	.183	.127	.101	.091	.083	.065	.052	.044	.032	.028	.024	.016	.010	.004	.000
27	.423	.393	.254	.238	.214	.190	.129	.101	.091	.083	.065	.056	.046	.038	.030	.023	.020	.014	.006	.000
28	.429	.401	.258	.242	.218	.196	.131	.101	.091	.083	.065	.056	.052	.042	.032	.028	.022	.018	.010	.000
29	.435	.409	.262	.246	.222	.202	.133	.101	.091	.083	.065	.056	.052	.048	.036	.028	.024	.020	.014	.002
30	.442	.417	.266	.250	.226	.208	.135	.101	.091	.093	.065	.056	.052	.048	.042	.030	.026	.022	.018	.004
31	.448	.425	.270	.254	.230	.214	.137	.101	.091	.083	.065	.056	.052	.048	.042	.030	.026	.024	.020	.008
32	.454	.431	.274	.258	.234	.220	.139	.101	.091	.083	.065	.056	.052	.048	.042	.038	.030	.024	.022	.010
33	.460	.438	.276	.262	.238	.226	.141	.101	.091	.083	.065	.056	.052	.048	.042	.038	.030	.028	.022	.012
34	.464	.446	.278	.264	.242	.230	.145	.101	.091	.083	.065	.056	.052	.048	.042	.038	.030	.028	.026	.014
35	.468	.450	.284	.266	.244	.234	.147	.103	.091	.083	.065	.056	.052	.048	.042	.038	.030	.028	.026	.020
36	.470	.456	.286	.270	.246	.236	.149	.105	.091	.083	.065	.056	.052	.048	.042	.038	.030	.028	.026	.024
37	.472	.458	.290	.274	.248	.238	.151	.107	.091	.083	.065	.056	.052	.048	.042	.038	.030	.028	.026	.024
38	.474	.460	.292	.276	.254	.240	.153	.109	.091	.083	.065	.056	.052	.048	.042	.038	.030	.028	.026	.024
39	.476	.462	.294	.278	.254	.246	.155	.111	.091	.083	.065	.056	.052	.048	.042	.038	.030	.028	.026	.024
40	.478	.464	.296	.280	.254	.246	.161	.113	.091	.083	.065	.056	.052	.048	.042	.038	.030	.028	.026	.024

TOTAL OBSERVATIONS 496

TABLE 12. 2. b. P(N < M\*) I LAUNCH OPPORTUNITIES IN J PERIODS (M\* = 25 M/SEC).  
 BASED ON MAXIMUM WIND SPEEDS IN THE 10-15 KM LAYER OVER CAPE KENNEDY, FLORIDA.  
 PERIOD OF RECORD JANUARY 1956 - DECEMBER 1963.

CAPE KENNEDY, FLORIDA DECEMBER  
SPEEDS LESS THAN 030 MPS

PC ( I CONSECUTIVE SUCCESSES IN J PERIODS )

	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
1	.206																			
2	.238	.171																		
3	.266	.198	.143																	
4	.290	.224	.161	.123																
5	.310	.246	.179	.141	.105															
6	.331	.266	.196	.159	.121	.089														
7	.353	.286	.212	.175	.137	.097	.081													
8	.371	.306	.228	.192	.151	.105	.089	.073												
9	.389	.323	.244	.208	.165	.111	.097	.077	.069											
10	.407	.337	.258	.224	.179	.117	.103	.081	.073	.065										
11	.423	.351	.270	.238	.194	.123	.109	.085	.077	.069	.060									
12	.440	.365	.280	.252	.206	.129	.115	.089	.081	.073	.065	.056								
13	.452	.377	.290	.264	.218	.133	.121	.093	.085	.077	.069	.060	.052							
14	.464	.385	.300	.274	.230	.137	.125	.097	.089	.081	.073	.065	.056	.048						
15	.476	.393	.304	.284	.240	.141	.129	.099	.093	.085	.077	.069	.060	.052	.044					
16	.488	.401	.308	.290	.248	.145	.133	.101	.095	.089	.081	.073	.065	.056	.048	.040				
17	.496	.409	.313	.294	.254	.149	.137	.103	.097	.091	.085	.077	.069	.060	.052	.044	.036			
18	.506	.417	.317	.298	.260	.151	.141	.105	.099	.093	.087	.081	.073	.065	.056	.048	.040	.032		
19	.516	.425	.321	.302	.264	.153	.145	.107	.101	.095	.089	.083	.077	.069	.060	.052	.044	.036	.028	
20	.526	.433	.327	.306	.268	.155	.147	.109	.103	.097	.091	.085	.079	.073	.065	.056	.048	.040	.032	.024
21	.536	.442	.331	.313	.272	.157	.149	.111	.105	.099	.093	.087	.081	.075	.069	.060	.052	.044	.036	.026
22	.546	.450	.335	.319	.278	.159	.151	.113	.107	.101	.095	.089	.083	.077	.071	.065	.056	.048	.040	.028
23	.556	.459	.339	.323	.284	.161	.153	.115	.109	.103	.097	.091	.085	.079	.073	.067	.060	.052	.044	.030
24	.567	.466	.343	.327	.290	.163	.155	.115	.111	.105	.099	.093	.087	.081	.075	.069	.063	.056	.048	.032
25	.577	.474	.347	.331	.296	.165	.157	.115	.111	.107	.101	.095	.089	.083	.077	.071	.065	.058	.052	.034
26	.587	.482	.351	.335	.302	.167	.159	.115	.111	.107	.103	.097	.091	.085	.079	.073	.067	.060	.054	.036
27	.597	.490	.355	.339	.308	.169	.161	.115	.111	.107	.103	.099	.093	.087	.081	.075	.069	.063	.056	.036
28	.605	.498	.359	.343	.315	.171	.163	.115	.111	.107	.103	.099	.095	.089	.083	.077	.071	.065	.058	.036
29	.613	.506	.363	.347	.321	.173	.165	.115	.111	.107	.103	.099	.095	.091	.085	.079	.073	.067	.060	.036
30	.621	.514	.367	.351	.327	.175	.167	.115	.111	.107	.103	.099	.095	.091	.087	.081	.075	.069	.063	.036
31	.629	.522	.371	.355	.333	.177	.169	.115	.111	.107	.103	.099	.095	.091	.087	.083	.077	.071	.065	.036
32	.637	.530	.375	.359	.339	.179	.171	.115	.111	.107	.103	.099	.095	.091	.087	.083	.079	.073	.067	.036
33	.641	.538	.379	.363	.345	.181	.173	.115	.111	.107	.103	.099	.095	.091	.087	.083	.079	.075	.069	.036
34	.645	.546	.383	.367	.351	.183	.175	.115	.111	.107	.103	.099	.095	.091	.087	.083	.079	.075	.071	.036
35	.649	.550	.387	.371	.357	.185	.177	.115	.111	.107	.103	.099	.095	.091	.087	.083	.079	.075	.071	.036
36	.653	.554	.391	.375	.361	.188	.179	.115	.111	.107	.103	.099	.095	.091	.087	.083	.079	.075	.071	.036
37	.657	.558	.391	.379	.365	.190	.181	.115	.111	.107	.103	.099	.095	.091	.087	.083	.079	.075	.071	.036
38	.661	.563	.391	.383	.369	.192	.183	.115	.111	.107	.103	.099	.095	.091	.087	.083	.079	.075	.071	.036
39	.665	.567	.391	.383	.373	.194	.185	.115	.111	.107	.103	.099	.095	.091	.087	.083	.079	.075	.071	.036
40	.669	.571	.391	.383	.375	.196	.188	.115	.111	.107	.103	.099	.095	.091	.087	.083	.079	.075	.071	.036

TOTAL OBSERVATIONS 496

TABLE 12. 3. a. P(W < W\*) I CONSECUTIVE LAUNCH OPPORTUNITIES IN J PERIODS (W\* = 30 M/SEC).  
BASED ON MAXIMUM WIND SPEEDS IN THE 10-15 KM LAYER OVER CAPE KENNEDY, FLORIDA.  
PERIOD OF RECORD JANUARY 1956 - DECEMBER 1963.

CAPE KENNEDY, FLORIDA DECEMBER  
SPEEDS LESS THAN 030 MPS

P ( I SUCCESSES IN J PERIODS )

I

J	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
1	.206																			
2	.238	.171																		
3	.266	.202	.143																	
4	.290	.228	.167	.123																
5	.310	.252	.192	.145	.105															
6	.331	.272	.214	.167	.125	.089														
7	.353	.290	.234	.188	.145	.101	.081													
8	.371	.310	.250	.206	.165	.113	.093	.073												
9	.389	.325	.270	.222	.179	.129	.103	.081	.069											
10	.407	.339	.282	.244	.194	.137	.119	.085	.077	.065										
11	.423	.355	.294	.256	.216	.145	.125	.099	.081	.073	.060									
12	.440	.367	.310	.268	.226	.163	.131	.103	.095	.077	.069	.056								
13	.452	.379	.321	.286	.236	.167	.149	.107	.099	.091	.073	.065	.052							
14	.464	.387	.331	.296	.254	.171	.151	.125	.103	.095	.087	.069	.060	.048						
15	.476	.395	.337	.306	.262	.185	.153	.127	.121	.099	.091	.083	.065	.056	.044					
16	.488	.403	.343	.313	.270	.192	.163	.129	.123	.117	.095	.087	.079	.060	.052	.040				
17	.496	.415	.349	.319	.276	.198	.167	.135	.125	.119	.113	.091	.083	.075	.056	.048	.036			
18	.506	.421	.361	.325	.282	.204	.171	.137	.129	.121	.115	.109	.087	.079	.071	.052	.044	.032		
19	.516	.429	.367	.337	.288	.210	.175	.139	.131	.123	.117	.111	.105	.083	.075	.067	.048	.040	.028	
20	.526	.438	.373	.343	.302	.216	.179	.141	.133	.125	.117	.113	.107	.101	.079	.071	.063	.044	.036	.024
21	.536	.446	.379	.351	.308	.228	.183	.143	.135	.127	.117	.113	.109	.103	.097	.075	.067	.058	.040	.030
22	.546	.454	.385	.359	.317	.234	.194	.145	.137	.129	.117	.113	.109	.105	.099	.093	.071	.063	.054	.032
23	.556	.462	.391	.367	.325	.240	.200	.151	.139	.131	.117	.113	.109	.105	.101	.095	.089	.067	.058	.044
24	.567	.470	.397	.373	.335	.248	.206	.155	.143	.133	.117	.113	.109	.105	.101	.097	.091	.085	.063	.046
25	.577	.478	.403	.379	.343	.258	.214	.159	.147	.135	.117	.113	.109	.105	.101	.097	.093	.087	.081	.048
26	.587	.486	.409	.385	.351	.268	.222	.163	.151	.137	.117	.113	.109	.105	.101	.097	.093	.089	.083	.065
27	.597	.494	.415	.391	.359	.278	.230	.169	.155	.139	.117	.113	.109	.105	.101	.097	.093	.089	.085	.067
28	.605	.504	.421	.397	.367	.288	.238	.175	.161	.141	.117	.113	.109	.105	.101	.097	.093	.089	.085	.069
29	.613	.512	.429	.403	.375	.298	.246	.181	.167	.143	.117	.113	.109	.105	.101	.097	.093	.089	.085	.069
30	.621	.520	.435	.411	.383	.308	.254	.188	.173	.145	.117	.113	.109	.105	.101	.097	.093	.089	.085	.069
31	.629	.529	.442	.417	.393	.317	.264	.194	.179	.147	.117	.113	.109	.105	.101	.097	.093	.089	.085	.069
32	.637	.536	.448	.423	.399	.327	.270	.204	.185	.149	.117	.113	.109	.105	.101	.097	.093	.089	.085	.069
33	.641	.548	.454	.429	.405	.333	.278	.208	.198	.151	.117	.113	.109	.105	.101	.097	.093	.089	.085	.069
34	.645	.552	.468	.435	.411	.339	.282	.214	.202	.161	.117	.113	.109	.105	.101	.097	.093	.089	.085	.069
35	.649	.556	.470	.454	.417	.345	.286	.218	.206	.163	.125	.113	.109	.105	.101	.097	.093	.089	.085	.069
36	.653	.560	.472	.456	.438	.351	.290	.222	.208	.165	.127	.119	.109	.105	.101	.097	.093	.089	.085	.069
37	.657	.565	.474	.458	.440	.373	.294	.226	.210	.167	.129	.121	.113	.105	.101	.097	.093	.089	.085	.069
38	.661	.569	.476	.460	.442	.379	.313	.230	.212	.169	.131	.123	.115	.107	.101	.097	.093	.089	.085	.069
39	.665	.573	.478	.462	.444	.383	.319	.246	.214	.171	.133	.125	.117	.109	.101	.097	.093	.089	.085	.069
40	.669	.577	.480	.464	.446	.385	.323	.256	.224	.173	.135	.127	.119	.111	.101	.097	.093	.089	.085	.069

TOTAL OBSERVATIONS 496

TABLE 12. 3.b. P(W < W\*) I LAUNCH OPPORTUNITIES IN J PERIODS (W\* = 30 M/SEC).  
BASED ON MAXIMUM WIND SPEEDS IN THE 10-15 KM LAYER OVER CAPE KENNEDY, FLORIDA.  
PERIOD OF RECORD JANUARY 1956 - DECEMBER 1963.



CAPE KENNEDY, FLORIDA DECEMBER  
SPEEDS LESS THAN 035 MPS

PC ( I CONSECUTIVE SUCCESSES IN J PERIODS )

	I																			
J	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
1	.302																			
2	.551	.248																		
3	.387	.276	.214																	
4	.421	.304	.234	.190																
5	.452	.331	.254	.206	.169															
6	.480	.359	.274	.222	.183	.151														
7	.510	.383	.294	.238	.198	.163	.135													
8	.534	.409	.315	.254	.212	.175	.147	.121												
9	.556	.433	.335	.268	.226	.188	.159	.129	.111											
10	.577	.456	.353	.282	.240	.200	.171	.137	.117	.103										
11	.593	.474	.371	.294	.252	.212	.183	.145	.123	.107	.097									
12	.609	.494	.385	.306	.262	.224	.196	.153	.129	.111	.101	.093								
13	.623	.514	.399	.317	.272	.232	.208	.161	.135	.115	.105	.097	.089							
14	.635	.532	.413	.327	.280	.240	.218	.169	.141	.119	.109	.101	.093	.085						
15	.645	.550	.425	.335	.288	.246	.226	.175	.147	.123	.113	.105	.097	.089	.081					
16	.653	.569	.438	.341	.296	.252	.232	.181	.151	.127	.117	.109	.101	.093	.085	.077				
17	.661	.581	.450	.347	.300	.258	.238	.183	.155	.129	.121	.113	.105	.097	.089	.081	.073			
18	.669	.591	.462	.353	.304	.264	.244	.185	.159	.131	.123	.117	.109	.101	.093	.085	.077	.069		
19	.677	.601	.472	.359	.308	.268	.250	.188	.161	.133	.125	.119	.113	.105	.097	.089	.081	.073	.065	
20	.685	.609	.484	.365	.313	.272	.256	.190	.163	.135	.127	.121	.115	.109	.101	.093	.085	.077	.069	.060
21	.694	.617	.494	.371	.317	.276	.260	.192	.165	.135	.129	.123	.117	.111	.105	.097	.089	.081	.073	.065
22	.702	.625	.504	.377	.323	.280	.264	.194	.167	.135	.131	.125	.119	.113	.107	.101	.093	.085	.077	.069
23	.710	.633	.514	.383	.327	.286	.268	.196	.169	.135	.131	.127	.121	.115	.109	.103	.097	.089	.081	.073
24	.718	.641	.524	.389	.331	.292	.274	.198	.171	.135	.131	.127	.123	.117	.111	.105	.099	.093	.085	.077
25	.722	.649	.534	.395	.335	.298	.280	.202	.173	.135	.131	.127	.123	.119	.113	.107	.101	.095	.089	.081
26	.726	.657	.544	.401	.339	.304	.286	.206	.175	.135	.131	.127	.123	.119	.115	.109	.103	.097	.091	.085
27	.730	.663	.554	.407	.343	.310	.292	.210	.177	.135	.131	.127	.123	.119	.115	.111	.105	.099	.093	.087
28	.736	.669	.565	.413	.347	.317	.298	.214	.179	.135	.131	.127	.123	.119	.115	.111	.107	.101	.095	.089
29	.742	.675	.573	.419	.351	.323	.304	.218	.181	.135	.131	.127	.123	.119	.115	.111	.107	.103	.097	.091
30	.746	.681	.581	.425	.355	.329	.310	.222	.183	.135	.131	.127	.123	.119	.115	.111	.107	.103	.099	.093
31	.754	.685	.589	.431	.359	.335	.317	.226	.185	.135	.131	.127	.123	.119	.115	.111	.107	.103	.099	.095
32	.758	.690	.597	.438	.363	.341	.323	.230	.188	.135	.131	.127	.123	.119	.115	.111	.107	.103	.099	.095
33	.762	.694	.603	.444	.367	.347	.329	.234	.190	.135	.131	.127	.123	.119	.115	.111	.107	.103	.099	.095
34	.766	.696	.609	.450	.371	.353	.335	.238	.192	.135	.131	.127	.123	.119	.115	.111	.107	.103	.099	.095
35	.770	.698	.615	.454	.375	.359	.341	.242	.194	.135	.131	.127	.123	.119	.115	.111	.107	.103	.099	.095
36	.774	.700	.619	.458	.379	.363	.347	.246	.196	.135	.131	.127	.123	.119	.115	.111	.107	.103	.099	.095
37	.778	.702	.623	.462	.381	.367	.351	.250	.198	.135	.131	.127	.123	.119	.115	.111	.107	.103	.099	.095
38	.782	.704	.627	.464	.383	.371	.355	.254	.200	.135	.131	.127	.123	.119	.115	.111	.107	.103	.099	.095
39	.786	.706	.631	.466	.385	.373	.359	.258	.202	.135	.131	.127	.123	.119	.115	.111	.107	.103	.099	.095
40	.790	.708	.635	.468	.385	.375	.363	.262	.204	.135	.131	.127	.123	.119	.115	.111	.107	.103	.099	.095

TOTAL OBSERVATIONS 496

TABLE 12. 4.a. P(W < W\*) I CONSECUTIVE LAUNCH OPPORTUNITIES IN J PERIODS (W\* = 35 M/SEC).  
BASED ON MAXIMUM WIND SPEEDS IN THE 10-15 KM LAYER OVER CAPE KENNEDY, FLORIDA.  
PERIOD OF RECORD JANUARY 1956 - DECEMBER 1963.

CAPF KENNEDY , FLORIDA DECEMBER  
SPEFDS LESS THAN 035 MPS

P ( I SUCCESSES IN J PERIODS )

J	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
1	.302																			
2	.351	.248																		
3	.387	.286	.214																	
4	.421	.315	.246	.190																
5	.452	.345	.272	.216	.169															
6	.480	.371	.300	.236	.196	.151														
7	.510	.395	.327	.254	.214	.177	.135													
8	.534	.423	.353	.270	.230	.194	.163	.121												
9	.556	.450	.377	.288	.246	.206	.179	.147	.111											
10	.577	.470	.403	.302	.264	.220	.190	.161	.135	.103										
11	.593	.494	.419	.323	.276	.238	.200	.169	.147	.125	.097									
12	.609	.514	.442	.331	.296	.250	.214	.177	.155	.131	.121	.093								
13	.623	.532	.464	.343	.304	.272	.222	.190	.161	.137	.125	.117	.089							
14	.635	.550	.484	.359	.313	.280	.242	.196	.171	.143	.129	.119	.113	.085						
15	.645	.567	.504	.375	.323	.288	.246	.216	.175	.151	.135	.121	.115	.109	.081					
16	.653	.581	.522	.391	.335	.298	.250	.222	.192	.155	.141	.125	.117	.111	.105	.077				
17	.661	.587	.544	.405	.343	.313	.256	.226	.200	.165	.147	.129	.119	.113	.107	.101	.073			
18	.669	.595	.558	.425	.353	.319	.270	.230	.206	.169	.157	.135	.121	.115	.109	.103	.097	.069		
19	.677	.605	.571	.438	.369	.327	.274	.244	.212	.171	.161	.145	.123	.117	.111	.105	.099	.093	.065	
20	.685	.615	.581	.452	.379	.341	.278	.248	.228	.173	.163	.149	.131	.119	.113	.107	.101	.095	.089	.060
21	.694	.625	.591	.462	.393	.353	.286	.252	.234	.185	.165	.151	.135	.123	.115	.109	.103	.097	.091	.085
22	.702	.635	.601	.472	.405	.365	.294	.258	.240	.190	.175	.153	.137	.127	.115	.111	.105	.099	.093	.087
23	.710	.645	.609	.482	.419	.375	.306	.264	.246	.194	.179	.161	.139	.129	.117	.111	.107	.101	.095	.089
24	.718	.655	.617	.490	.435	.383	.321	.272	.250	.200	.183	.165	.145	.131	.119	.111	.107	.103	.097	.091
25	.722	.669	.625	.498	.448	.395	.331	.286	.254	.204	.190	.169	.149	.135	.121	.111	.107	.103	.099	.093
26	.726	.677	.639	.506	.460	.405	.343	.296	.262	.208	.194	.175	.153	.139	.123	.111	.107	.103	.099	.095
27	.730	.685	.645	.522	.470	.417	.353	.308	.270	.214	.198	.179	.159	.143	.125	.111	.107	.103	.099	.095
28	.736	.692	.651	.532	.486	.427	.365	.319	.280	.222	.202	.183	.163	.149	.127	.111	.107	.103	.099	.095
29	.742	.700	.657	.542	.496	.444	.375	.329	.290	.228	.210	.188	.167	.153	.131	.111	.107	.103	.099	.095
30	.748	.704	.667	.550	.506	.454	.391	.339	.300	.234	.214	.198	.171	.157	.133	.113	.107	.103	.099	.095
31	.754	.708	.671	.565	.512	.468	.401	.353	.310	.240	.218	.202	.183	.161	.135	.115	.107	.103	.099	.095
32	.758	.714	.675	.571	.526	.480	.413	.361	.325	.244	.222	.206	.188	.173	.137	.117	.107	.103	.099	.095
33	.762	.716	.683	.577	.530	.500	.427	.369	.333	.256	.226	.210	.192	.175	.149	.119	.107	.103	.099	.095
34	.766	.718	.685	.589	.534	.506	.452	.379	.341	.262	.232	.214	.196	.179	.151	.131	.107	.103	.099	.095
35	.770	.720	.688	.593	.546	.510	.462	.401	.349	.268	.236	.218	.200	.183	.155	.133	.117	.103	.099	.095
36	.774	.722	.690	.597	.548	.524	.466	.415	.369	.274	.240	.222	.202	.188	.159	.135	.119	.111	.099	.095
37	.778	.724	.692	.601	.550	.526	.482	.423	.381	.292	.244	.226	.204	.190	.163	.137	.121	.113	.105	.095
38	.782	.726	.694	.605	.552	.528	.484	.444	.391	.307	.258	.230	.206	.192	.167	.139	.123	.115	.107	.099
39	.786	.728	.696	.609	.554	.530	.486	.446	.417	.313	.264	.242	.208	.194	.171	.141	.125	.117	.109	.101
40	.790	.732	.698	.613	.556	.532	.488	.448	.423	.341	.272	.246	.216	.196	.175	.143	.127	.119	.111	.103

TOTAL OBSERVATIONS 496

TABLE 12. 4. b. P(W < W\*) I LAUNCH OPPORTUNITIES IN J PERIODS (W\* = 35 M/SEC).  
BASED ON MAXIMUM WIND SPEEDS IN THE 10-15 KM LAYER OVER CAPE KENNEDY, FLORIDA.  
PERIOD OF RECORD JANUARY 1956 - DECEMBER 1963.

CAPE KENNEDY, FLORIDA DECEMBER  
SPEEDS LESS THAN 040 MPS

PC ( I CONSECUTIVE SUCCESSES IN J PERIODS )

	I																			
J	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
1	.403																			
2	.476	.325																		
3	.534	.371	.270																	
4	.587	.417	.294	.240																
5	.625	.462	.319	.260	.214															
6	.661	.506	.345	.280	.230	.194														
7	.692	.540	.371	.302	.246	.206	.177													
8	.718	.571	.399	.325	.262	.218	.188	.165												
9	.740	.599	.425	.349	.278	.230	.198	.175	.153											
10	.762	.623	.450	.371	.294	.242	.208	.185	.143	.141										
11	.780	.649	.474	.393	.308	.254	.218	.196	.173	.149	.131									
12	.798	.673	.496	.413	.323	.264	.228	.206	.183	.157	.137	.123								
13	.810	.696	.518	.433	.337	.274	.236	.216	.194	.165	.143	.127	.117							
14	.821	.714	.538	.452	.351	.284	.244	.224	.204	.173	.149	.131	.121	.111						
15	.829	.730	.556	.470	.365	.294	.252	.232	.212	.181	.155	.135	.125	.113	.107					
16	.837	.744	.575	.484	.377	.304	.258	.240	.220	.188	.161	.139	.129	.115	.109	.103				
17	.845	.754	.593	.498	.387	.315	.264	.246	.228	.194	.165	.143	.133	.117	.111	.105	.099			
18	.853	.764	.609	.512	.395	.321	.270	.252	.234	.200	.169	.145	.137	.119	.113	.107	.101	.095		
19	.861	.774	.623	.526	.403	.327	.276	.258	.240	.204	.173	.147	.139	.121	.115	.109	.103	.097	.091	
20	.869	.788	.637	.542	.411	.331	.280	.264	.246	.208	.175	.149	.141	.121	.117	.111	.105	.099	.093	.087
21	.877	.798	.649	.556	.421	.335	.284	.270	.252	.212	.177	.149	.143	.121	.117	.113	.107	.101	.095	.089
22	.885	.808	.659	.571	.431	.341	.288	.274	.258	.216	.179	.149	.143	.121	.117	.113	.109	.103	.097	.091
23	.891	.819	.669	.585	.440	.347	.294	.278	.264	.220	.181	.149	.143	.121	.117	.113	.109	.105	.099	.093
24	.897	.827	.679	.597	.448	.353	.300	.284	.268	.224	.183	.149	.143	.121	.117	.113	.109	.105	.101	.095
25	.903	.835	.690	.609	.456	.359	.306	.290	.274	.228	.185	.149	.143	.121	.117	.113	.109	.105	.101	.097
26	.909	.843	.698	.621	.464	.365	.313	.296	.280	.232	.188	.149	.143	.121	.117	.113	.109	.105	.101	.097
27	.913	.851	.704	.633	.472	.371	.319	.302	.286	.236	.190	.149	.143	.121	.117	.113	.109	.105	.101	.097
28	.919	.859	.710	.645	.480	.377	.325	.309	.292	.240	.192	.149	.143	.121	.117	.113	.109	.105	.101	.097
29	.925	.865	.714	.655	.488	.383	.331	.315	.298	.244	.194	.149	.143	.121	.117	.113	.109	.105	.101	.097
30	.931	.871	.718	.663	.496	.389	.337	.321	.304	.248	.196	.149	.143	.121	.117	.113	.109	.105	.101	.097
31	.935	.877	.722	.671	.502	.395	.343	.327	.310	.252	.198	.149	.143	.121	.117	.113	.109	.105	.101	.097
32	.940	.881	.726	.679	.508	.401	.349	.333	.317	.254	.200	.149	.143	.121	.117	.113	.109	.105	.101	.097
33	.946	.885	.728	.688	.514	.407	.353	.339	.323	.260	.202	.149	.143	.121	.117	.113	.109	.105	.101	.097
34	.950	.889	.728	.696	.520	.413	.357	.343	.329	.264	.204	.149	.143	.121	.117	.113	.109	.105	.101	.097
35	.954	.893	.728	.702	.526	.419	.361	.347	.333	.268	.206	.149	.143	.121	.117	.113	.109	.105	.101	.097
36	.958	.897	.728	.706	.532	.425	.365	.351	.337	.270	.208	.149	.143	.121	.117	.113	.109	.105	.101	.097
37	.962	.899	.728	.704	.536	.431	.369	.355	.341	.272	.208	.149	.143	.121	.117	.113	.109	.105	.101	.097
38	.966	.899	.728	.710	.538	.438	.373	.359	.343	.274	.208	.149	.143	.121	.117	.113	.109	.105	.101	.097
39	.970	.899	.724	.712	.540	.442	.377	.363	.349	.274	.208	.149	.143	.121	.117	.113	.109	.105	.101	.097
40	.974	.901	.728	.714	.542	.444	.381	.367	.353	.278	.208	.149	.143	.121	.117	.113	.109	.105	.101	.097

TOTAL OBSERVATIONS 436

TABLE 12. 5.a. P(W < W\*) I CONSECUTIVE LAUNCH OPPORTUNITIES IN J PERIODS (W\* = 40 M/SEC).  
BASED ON MAXIMUM WIND SPEEDS IN THE 16-15 KM LAYER OVER CAPE KENNEDY, FLORIDA.  
PERIOD OF RECORD JANUARY 1956 - DECEMBER 1963.

CAPE KENNEDY, FLORIDA DECEMBER  
 SPEEDS LESS THAN 040 MPS

P ( I SUCCESSFUL IN J PERIODS )

	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
1	.403																			
2	.476	.325																		
3	.534	.385	.270																	
4	.587	.435	.313	.240																
5	.625	.490	.353	.274	.214															
6	.661	.526	.409	.304	.242	.194														
7	.692	.563	.450	.349	.266	.218	.177													
8	.718	.601	.490	.391	.298	.242	.194	.165												
9	.740	.631	.520	.413	.337	.270	.214	.183	.143											
10	.762	.655	.556	.448	.357	.304	.240	.198	.171	.141										
11	.780	.679	.587	.474	.391	.317	.274	.222	.191	.157	.131									
12	.798	.699	.613	.504	.417	.341	.286	.256	.200	.164	.145	.123								
13	.810	.713	.639	.526	.452	.355	.310	.268	.228	.181	.151	.135	.117							
14	.821	.734	.661	.556	.476	.383	.319	.294	.236	.210	.163	.141	.127	.111						
15	.829	.748	.681	.577	.512	.405	.339	.302	.260	.214	.192	.151	.133	.117	.107					
16	.837	.758	.700	.593	.538	.446	.357	.313	.266	.238	.196	.181	.141	.121	.111	.103				
17	.845	.770	.712	.607	.556	.482	.389	.323	.274	.247	.216	.185	.173	.125	.115	.105	.099			
18	.853	.780	.728	.615	.571	.514	.419	.345	.282	.248	.220	.204	.177	.155	.119	.107	.101	.095		
19	.861	.790	.740	.629	.579	.534	.454	.373	.298	.257	.226	.208	.194	.161	.145	.109	.103	.097	.091	
20	.869	.809	.752	.639	.593	.546	.478	.409	.321	.260	.230	.214	.196	.179	.151	.129	.105	.099	.093	.087
21	.877	.810	.764	.649	.603	.565	.494	.433	.355	.270	.238	.218	.200	.185	.167	.133	.121	.101	.095	.089
22	.885	.819	.776	.659	.613	.577	.516	.454	.377	.294	.242	.226	.204	.188	.177	.145	.125	.113	.097	.091
23	.891	.829	.784	.671	.621	.589	.534	.476	.401	.315	.256	.230	.212	.190	.179	.157	.135	.117	.107	.093
24	.897	.837	.794	.677	.635	.597	.550	.496	.431	.335	.266	.240	.216	.196	.181	.161	.147	.125	.111	.101
25	.903	.845	.802	.685	.641	.611	.560	.512	.458	.365	.280	.250	.222	.200	.185	.165	.151	.137	.117	.105
26	.909	.853	.810	.692	.649	.619	.575	.526	.478	.395	.298	.264	.230	.204	.190	.169	.155	.141	.129	.109
27	.913	.863	.819	.698	.655	.627	.585	.540	.500	.413	.323	.282	.242	.208	.194	.171	.161	.145	.133	.119
28	.919	.869	.831	.704	.661	.633	.593	.554	.514	.440	.337	.304	.258	.216	.198	.173	.163	.153	.137	.123
29	.925	.877	.839	.714	.667	.639	.599	.565	.532	.458	.357	.317	.280	.228	.204	.175	.165	.155	.147	.127
30	.931	.881	.853	.718	.679	.644	.605	.571	.544	.476	.377	.335	.290	.252	.212	.177	.167	.157	.149	.139
31	.935	.887	.859	.732	.688	.655	.611	.577	.550	.494	.397	.349	.306	.264	.232	.181	.169	.159	.151	.141
32	.940	.891	.867	.732	.710	.663	.619	.583	.556	.504	.423	.361	.323	.276	.244	.196	.173	.161	.153	.143
33	.946	.895	.873	.734	.714	.690	.625	.591	.563	.514	.442	.381	.333	.292	.252	.208	.183	.165	.155	.145
34	.950	.901	.879	.734	.720	.694	.653	.599	.569	.520	.460	.397	.349	.300	.266	.218	.192	.173	.159	.147
35	.954	.903	.884	.734	.722	.702	.655	.631	.575	.524	.472	.413	.367	.310	.276	.230	.200	.179	.165	.151
36	.958	.903	.895	.740	.724	.704	.663	.635	.607	.532	.480	.427	.381	.327	.286	.238	.212	.185	.171	.153
37	.962	.903	.897	.744	.737	.706	.665	.645	.609	.567	.488	.438	.393	.341	.300	.248	.218	.196	.177	.155
38	.966	.903	.899	.746	.734	.716	.667	.647	.619	.569	.526	.448	.399	.357	.313	.260	.228	.202	.185	.159
39	.970	.905	.899	.750	.736	.716	.679	.649	.621	.577	.532	.482	.409	.365	.329	.272	.238	.212	.190	.167
40	.974	.907	.901	.754	.738	.716	.681	.661	.623	.581	.538	.490	.442	.377	.337	.290	.248	.222	.196	.171

TOTAL OBSERVATIONS 496

TABLE 12. S.b. P(W < W\*) I LAUNCH OPPORTUNITIES IN J PERIODS (W\* = 40 M/SEC).  
 BASED ON MAXIMUM WIND SPEEDS IN THE 10-15 KM LAYER OVER CAPE KENNEDY, FLORIDA.  
 PERIOD OF RECORD JANUARY 1956 - DECEMBER 1963.

CAPE KENNEDY, FLORIDA DECEMBER  
SPEEDS LESS THAN 045 MPS

P( I CONSECUTIVE SUCCESSSES IN J PERIODS )

	I																			
J	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
1	.538																			
2	.609	.462																		
3	.667	.508	.409																	
4	.716	.556	.446	.367																
5	.758	.593	.484	.393	.335															
6	.796	.635	.522	.421	.355	.308														
7	.823	.671	.556	.450	.377	.329	.292													
8	.843	.703	.593	.478	.399	.349	.298	.254												
9	.861	.724	.623	.506	.421	.369	.315	.280	.246											
10	.875	.746	.653	.528	.446	.389	.331	.296	.262	.228										
11	.889	.764	.679	.550	.464	.411	.347	.313	.278	.244	.210									
12	.903	.780	.702	.573	.482	.429	.365	.329	.294	.260	.224	.194								
13	.917	.794	.722	.591	.500	.446	.379	.347	.310	.276	.238	.208	.177							
14	.925	.804	.740	.609	.518	.462	.393	.361	.329	.297	.252	.222	.190	.163						
15	.933	.815	.752	.625	.532	.478	.407	.375	.343	.310	.266	.236	.202	.173	.151					
16	.942	.823	.762	.639	.548	.494	.421	.389	.357	.325	.282	.250	.214	.183	.159	.141				
17	.950	.831	.772	.651	.558	.510	.435	.403	.371	.339	.294	.266	.226	.194	.167	.149	.131			
18	.958	.839	.782	.663	.569	.524	.452	.417	.385	.353	.306	.278	.238	.204	.175	.157	.139	.121		
19	.966	.847	.790	.677	.577	.534	.466	.433	.399	.367	.319	.290	.246	.214	.183	.165	.147	.127	.113	
20	.974	.855	.798	.690	.587	.544	.480	.450	.415	.381	.331	.302	.254	.220	.192	.173	.155	.133	.119	.105
21	.982	.863	.806	.700	.597	.554	.492	.464	.431	.395	.343	.315	.262	.226	.196	.181	.163	.139	.125	.109
22	.988	.869	.815	.708	.607	.565	.506	.478	.448	.409	.355	.327	.270	.232	.200	.185	.171	.145	.131	.113
23	.990	.875	.823	.716	.615	.575	.518	.492	.462	.423	.367	.339	.278	.238	.204	.190	.175	.151	.137	.117
24	.992	.881	.829	.722	.623	.583	.530	.506	.478	.438	.379	.351	.286	.244	.208	.194	.179	.155	.143	.121
25	.994	.887	.835	.728	.629	.591	.540	.518	.492	.452	.391	.363	.294	.250	.212	.198	.183	.159	.147	.125
26	.996	.893	.841	.732	.635	.597	.550	.528	.506	.464	.403	.375	.302	.256	.216	.202	.188	.163	.151	.127
27	.998	.899	.847	.736	.641	.603	.558	.538	.516	.478	.415	.387	.310	.262	.220	.206	.192	.167	.155	.129
28	1.00	.905	.853	.740	.647	.609	.567	.546	.526	.488	.427	.399	.319	.268	.224	.210	.196	.171	.159	.131
29	1.00	.911	.859	.744	.653	.615	.575	.554	.534	.496	.435	.411	.327	.274	.228	.214	.200	.175	.163	.133
30	1.00	.917	.865	.748	.659	.621	.583	.563	.542	.502	.444	.421	.335	.280	.232	.218	.204	.179	.167	.135
31	1.00	.921	.871	.752	.665	.627	.591	.571	.550	.508	.448	.429	.341	.286	.236	.222	.208	.183	.171	.137
32	1.00	.925	.877	.756	.671	.633	.597	.579	.558	.514	.452	.435	.347	.290	.240	.226	.212	.188	.175	.139
33	1.00	.929	.879	.762	.677	.639	.603	.585	.567	.520	.456	.440	.349	.294	.242	.230	.216	.192	.179	.141
34	1.00	.933	.881	.766	.685	.645	.609	.591	.573	.526	.460	.444	.351	.298	.244	.232	.220	.196	.183	.143
35	1.00	.938	.883	.768	.684	.653	.615	.597	.579	.530	.464	.448	.353	.300	.246	.234	.222	.200	.188	.145
36	1.00	.942	.885	.770	.700	.661	.623	.603	.585	.534	.466	.452	.355	.302	.248	.236	.224	.202	.192	.147
37	1.00	.946	.887	.772	.704	.669	.631	.609	.591	.538	.470	.454	.357	.304	.250	.238	.226	.204	.194	.149
38	1.00	.950	.889	.774	.708	.675	.639	.615	.597	.542	.474	.456	.359	.306	.252	.240	.228	.206	.196	.151
39	1.00	.954	.891	.776	.712	.679	.647	.621	.603	.546	.478	.458	.361	.308	.254	.242	.230	.208	.198	.153
40	1.00	.958	.893	.778	.716	.683	.653	.627	.609	.550	.482	.460	.363	.310	.256	.244	.232	.210	.200	.155

TOTAL OBSERVATIONS 496

TABLE 12 6.a. P(W < W\*) I CONSECUTIVE LAUNCH OPPORTUNITIES IN J PERIODS (W\* = 45 M/SEC).  
BASED ON MAXIMUM WIND SPEEDS IN THE 10-15 KM LAYER OVER CAPE KENNEDY, FLORIDA.  
PERIOD OF RECORD JANUARY 1956 - DECEMBER 1963.

CAPE KENNEDY, FLORIDA DECEMBER

SPEEDS LESS THAN 045 MP4

P ( I SUCCESSFUL IN J PERIODS )

	I																			
J	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
1	.538																			
2	.609	.462																		
3	.667	.522	.409																	
4	.716	.575	.464	.367																
5	.758	.617	.512	.415	.335															
6	.796	.659	.554	.456	.379	.308														
7	.823	.700	.599	.494	.413	.355	.282													
8	.843	.734	.639	.534	.450	.385	.327	.264												
9	.861	.758	.679	.577	.480	.421	.355	.306	.246											
10	.875	.778	.712	.617	.516	.448	.395	.333	.286	.228										
11	.889	.794	.734	.655	.548	.482	.419	.377	.310	.266	.210									
12	.903	.808	.750	.681	.591	.508	.452	.401	.357	.288	.244	.194								
13	.917	.823	.760	.706	.615	.552	.476	.431	.379	.330	.264	.224	.177							
14	.925	.843	.772	.722	.639	.575	.522	.456	.405	.361	.319	.240	.204	.163						
15	.933	.857	.788	.740	.655	.597	.542	.502	.431	.387	.341	.296	.220	.183	.151					
16	.942	.871	.796	.762	.675	.613	.560	.522	.482	.411	.367	.319	.276	.200	.165	.141				
17	.950	.881	.808	.772	.702	.635	.571	.540	.502	.464	.391	.345	.300	.252	.179	.153	.131			
18	.958	.891	.819	.782	.718	.661	.591	.548	.522	.482	.448	.369	.327	.272	.230	.167	.141	.121		
19	.966	.899	.831	.792	.732	.675	.615	.567	.532	.504	.466	.429	.351	.298	.250	.214	.153	.129	.113	
20	.974	.905	.843	.804	.744	.690	.629	.587	.552	.516	.488	.446	.415	.321	.274	.236	.196	.137	.121	.105
21	.982	.911	.851	.817	.758	.700	.645	.601	.571	.536	.498	.468	.431	.387	.292	.260	.220	.173	.127	.111
22	.988	.919	.859	.823	.776	.710	.655	.621	.581	.556	.514	.482	.450	.401	.361	.278	.242	.202	.155	.117
23	.990	.929	.871	.829	.786	.726	.665	.633	.599	.565	.536	.498	.464	.417	.375	.347	.258	.224	.185	.139
24	.992	.935	.885	.839	.796	.734	.683	.643	.609	.581	.544	.522	.480	.431	.389	.361	.325	.240	.208	.169
25	.994	.944	.895	.849	.810	.742	.692	.663	.617	.580	.563	.530	.506	.450	.401	.375	.339	.304	.228	.190
26	.996	.950	.907	.855	.825	.754	.700	.671	.637	.595	.573	.546	.514	.476	.415	.389	.351	.321	.290	.212
27	.998	.956	.915	.867	.835	.766	.712	.679	.643	.614	.581	.554	.530	.484	.442	.401	.365	.333	.308	.272
28	1.00	.960	.925	.877	.847	.778	.722	.690	.651	.621	.603	.560	.538	.498	.452	.425	.375	.347	.321	.294
29	1.00	.966	.929	.893	.859	.790	.732	.696	.661	.629	.609	.583	.544	.506	.466	.435	.395	.357	.335	.308
30	1.00	.968	.940	.897	.879	.808	.742	.704	.667	.641	.615	.591	.567	.512	.474	.450	.405	.373	.345	.323
31	1.00	.970	.946	.907	.885	.833	.760	.712	.675	.649	.625	.599	.575	.532	.480	.458	.421	.379	.359	.333
32	1.00	.972	.952	.913	.897	.845	.780	.728	.685	.657	.631	.611	.581	.542	.498	.464	.433	.389	.365	.347
33	1.00	.974	.958	.919	.901	.865	.788	.746	.706	.667	.637	.619	.591	.548	.512	.478	.442	.397	.375	.353
34	1.00	.976	.962	.925	.907	.871	.810	.750	.728	.688	.645	.625	.599	.558	.520	.492	.456	.401	.383	.365
35	1.00	.978	.966	.929	.911	.881	.821	.768	.734	.706	.667	.633	.605	.567	.532	.500	.470	.411	.387	.373
36	1.00	.980	.970	.933	.915	.885	.835	.780	.748	.710	.685	.657	.613	.573	.542	.512	.478	.425	.393	.377
37	1.00	.982	.974	.938	.919	.889	.839	.798	.758	.720	.690	.671	.641	.581	.550	.522	.490	.433	.403	.383
38	1.00	.984	.978	.942	.923	.891	.845	.804	.778	.728	.698	.679	.661	.613	.560	.530	.500	.446	.407	.391
39	1.00	.986	.982	.946	.929	.893	.849	.813	.782	.750	.702	.688	.667	.637	.591	.540	.508	.454	.415	.395
40	1.00	.988	.984	.952	.935	.897	.853	.819	.786	.760	.720	.690	.677	.645	.617	.571	.518	.460	.421	.403

TOTAL OBSERVATIONS 496

TABLE 12. G.b. P(N < M) I LAUNCH OPPORTUNITIES IN J PERIODS (M = 45 M/SEC).  
 BASED ON MAXIMUM WIND SPEEDS IN THE 10-15 KM LAYER OVER CAPE KENNEDY, FLORIDA.  
 PERIOD OF RECORD JANUARY 1956 - DECEMBER 1963.

CAPE KENNEDY, FLORIDA DECEMBER

SPFFDS LESS THAN 750 MPS

PC ( 1 CONSECUTIVE SUCCESSSES IN J PERIODS )

J	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	
1	.643																				
2	.722	.565																			
3	.782	.629	.496																		
4	.827	.692	.546	.438																	
5	.859	.746	.595	.480	.301																
6	.883	.788	.645	.520	.419	.359															
7	.905	.823	.685	.563	.448	.381	.333														
8	.923	.849	.720	.605	.478	.403	.355	.308													
9	.935	.871	.750	.641	.508	.427	.377	.327	.290												
10	.946	.889	.774	.671	.538	.452	.401	.345	.308	.277											
11	.956	.905	.794	.698	.563	.476	.425	.365	.327	.290	.254										
12	.966	.917	.813	.716	.585	.500	.450	.385	.345	.308	.272	.236									
13	.976	.929	.829	.732	.607	.520	.474	.405	.363	.327	.290	.254	.218								
14	.982	.942	.843	.744	.625	.538	.498	.425	.381	.345	.308	.272	.234	.202							
15	.988	.954	.857	.754	.643	.556	.518	.446	.399	.363	.327	.290	.250	.218	.185						
16	.992	.962	.871	.762	.655	.573	.536	.466	.417	.381	.345	.308	.266	.234	.198	.171					
17	.994	.970	.885	.770	.665	.587	.554	.484	.435	.399	.363	.327	.282	.250	.210	.193	.157				
18	.996	.976	.893	.778	.675	.599	.569	.500	.454	.417	.381	.345	.298	.266	.222	.196	.167	.145			
19	.998	.978	.901	.786	.685	.609	.583	.516	.470	.435	.399	.363	.315	.282	.234	.208	.177	.155	.133		
20	1.00	.980	.909	.792	.696	.619	.595	.530	.484	.454	.417	.381	.331	.298	.246	.220	.188	.165	.141	.123	
21	1.00	.982	.915	.798	.704	.627	.605	.544	.498	.470	.435	.399	.347	.315	.258	.232	.198	.175	.149	.131	
22	1.00	.984	.921	.804	.712	.635	.613	.556	.510	.484	.454	.417	.363	.331	.270	.244	.208	.185	.157	.139	
23	1.00	.986	.929	.808	.720	.643	.621	.567	.522	.498	.470	.435	.379	.347	.282	.256	.218	.194	.165	.147	
24	1.00	.988	.938	.815	.728	.651	.629	.577	.532	.510	.484	.454	.395	.363	.294	.268	.228	.202	.173	.155	
25	1.00	.990	.946	.819	.732	.659	.637	.587	.542	.522	.498	.470	.411	.379	.306	.280	.238	.210	.181	.163	
26	1.00	.992	.954	.823	.736	.665	.645	.597	.552	.532	.510	.484	.427	.395	.319	.292	.248	.218	.190	.171	
27	1.00	.994	.962	.827	.740	.669	.651	.607	.563	.542	.522	.498	.444	.411	.331	.304	.258	.226	.198	.179	
28	1.00	.996	.970	.831	.744	.673	.657	.615	.573	.552	.532	.510	.458	.427	.343	.317	.268	.234	.206	.188	
29	1.00	.998	.978	.835	.748	.677	.661	.623	.581	.563	.542	.522	.470	.444	.355	.329	.278	.242	.214	.196	
30	1.00	1.00	.984	.841	.752	.681	.665	.631	.589	.571	.552	.532	.484	.458	.367	.341	.288	.250	.222	.204	
31	1.00	1.00	.990	.847	.758	.685	.669	.637	.597	.579	.560	.542	.496	.472	.379	.353	.298	.258	.230	.212	
32	1.00	1.00	.994	.851	.764	.692	.673	.643	.605	.587	.569	.550	.506	.484	.389	.363	.308	.266	.238	.220	
33	1.00	1.00	.996	.855	.770	.698	.679	.647	.613	.595	.577	.558	.514	.496	.399	.377	.319	.274	.246	.228	
34	1.00	1.00	.998	.859	.774	.704	.685	.653	.619	.603	.585	.567	.522	.504	.409	.387	.329	.282	.254	.236	
35	1.00	1.00	.998	.863	.778	.710	.692	.659	.627	.609	.593	.575	.530	.512	.419	.397	.339	.290	.262	.244	
36	1.00	1.00	.998	.867	.782	.714	.698	.665	.635	.617	.599	.583	.538	.520	.427	.407	.347	.298	.270	.252	
37	1.00	1.00	.998	.871	.786	.718	.704	.671	.643	.625	.607	.589	.546	.528	.435	.417	.355	.306	.278	.260	
38	1.00	1.00	.998	.875	.790	.722	.708	.677	.651	.633	.615	.597	.552	.536	.444	.425	.363	.313	.286	.268	
39	1.00	1.00	.998	.879	.794	.726	.712	.683	.659	.641	.623	.605	.558	.542	.452	.433	.371	.319	.294	.276	
40	1.00	1.00	.998	.883	.798	.730	.716	.688	.667	.649	.631	.613	.565	.548	.458	.442	.377	.325	.300	.284	

TOTAL OBSERVATIONS 496

TABLE 12. 7.a. P(M < W) 1 CONSECUTIVE LAUNCH OPPORTUNITIES IN J PERIODS (W = 50 M/SEC).  
 BASED ON MAXIMUM WIND SPEEDS IN THE 10-15 KM LAYER OVER CAPE KENNEDY, FLORIDA.

PERIOD OF RECORD JANUARY 1936 - DECEMBER 1963.

CAPE KENNEDY, FLORIDA DECEMBER  
SPEEDS LESS THAN 250 MPS

P ( I SUCCESSFUL IN J PERIODS )

	I																			
J	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
1	.643																			
2	.722	.565																		
3	.782	.645	.476																	
4	.827	.716	.573	.438																
5	.859	.766	.647	.514	.311															
6	.883	.808	.708	.585	.440	.359														
7	.905	.835	.764	.645	.524	.423	.333													
8	.923	.861	.776	.710	.575	.480	.401	.308												
9	.935	.885	.829	.750	.637	.528	.456	.375	.290											
10	.946	.901	.857	.792	.673	.583	.502	.425	.357	.277										
11	.956	.913	.875	.829	.724	.613	.554	.470	.405	.330	.254									
12	.966	.925	.887	.853	.766	.661	.581	.522	.448	.387	.321	.236								
13	.976	.938	.899	.867	.798	.706	.621	.548	.493	.429	.369	.302	.218							
14	.982	.952	.913	.879	.819	.746	.659	.585	.524	.476	.415	.351	.282	.202						
15	.988	.960	.929	.895	.833	.780	.694	.619	.558	.498	.462	.399	.333	.264	.185					
16	.992	.970	.940	.913	.853	.796	.736	.673	.595	.524	.482	.446	.383	.317	.244	.171				
17	.994	.976	.956	.921	.875	.817	.758	.691	.617	.560	.508	.464	.431	.369	.294	.230	.157			
18	.996	.978	.968	.938	.889	.839	.778	.702	.655	.581	.544	.488	.450	.419	.349	.280	.214	.145		
19	.998	.980	.974	.954	.907	.855	.804	.720	.673	.617	.563	.526	.474	.438	.401	.337	.266	.198	.133	
20	1.00	.982	.978	.962	.929	.873	.825	.746	.690	.637	.591	.550	.508	.462	.419	.389	.325	.252	.179	.123
21	1.00	.986	.980	.970	.942	.895	.847	.766	.716	.655	.607	.575	.538	.490	.446	.405	.377	.310	.238	.163
22	1.00	.988	.984	.974	.954	.909	.875	.784	.734	.688	.623	.589	.558	.526	.468	.433	.391	.361	.298	.226
23	1.00	.990	.986	.978	.964	.923	.889	.815	.748	.710	.655	.605	.571	.542	.510	.450	.421	.369	.349	.288
24	1.00	.992	.988	.982	.970	.938	.901	.833	.776	.724	.679	.637	.585	.554	.524	.494	.433	.397	.357	.339
25	1.00	.994	.990	.986	.976	.948	.915	.849	.792	.754	.692	.663	.615	.569	.534	.510	.476	.407	.385	.347
26	1.00	.996	.992	.988	.980	.958	.929	.865	.806	.770	.724	.675	.641	.599	.564	.522	.494	.444	.393	.377
27	1.00	.998	.994	.990	.982	.966	.946	.883	.817	.786	.744	.706	.651	.627	.571	.532	.508	.460	.425	.383
28	1.00	1.00	.996	.992	.984	.974	.950	.909	.829	.800	.762	.724	.679	.637	.601	.554	.518	.476	.435	.413
29	1.00	1.00	1.00	.994	.986	.982	.956	.919	.857	.813	.780	.738	.698	.663	.613	.583	.538	.486	.450	.421
30	1.00	1.00	1.00	1.00	.988	.984	.968	.927	.869	.843	.792	.758	.712	.691	.641	.593	.567	.504	.458	.433
31	1.00	1.00	1.00	1.00	.996	.986	.974	.942	.877	.855	.825	.777	.732	.696	.663	.617	.579	.532	.472	.440
32	1.00	1.00	1.00	1.00	.998	.994	.980	.948	.893	.863	.835	.808	.746	.720	.677	.637	.603	.548	.496	.450
33	1.00	1.00	1.00	1.00	1.00	.996	.988	.958	.903	.875	.845	.817	.782	.734	.708	.649	.621	.573	.514	.470
34	1.00	1.00	1.00	1.00	1.00	1.00	.990	.968	.919	.881	.857	.829	.789	.770	.722	.683	.631	.591	.538	.490
35	1.00	1.00	1.00	1.00	1.00	1.00	.996	.972	.938	.891	.863	.843	.798	.778	.758	.700	.663	.599	.558	.516
36	1.00	1.00	1.00	1.00	1.00	1.00	.998	.980	.948	.905	.873	.851	.810	.788	.768	.738	.677	.629	.569	.538
37	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.984	.962	.911	.885	.863	.819	.800	.778	.752	.712	.643	.601	.548
38	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.990	.968	.925	.891	.873	.833	.808	.790	.764	.726	.679	.619	.579
39	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.996	.974	.933	.905	.877	.843	.825	.798	.778	.740	.694	.653	.595
40	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.984	.942	.915	.887	.847	.835	.817	.788	.754	.710	.669	.627	

TOTAL OBSERVATIONS 496

TABLE 12. 7.b. P(W < W\*) I LAUNCH OPPORTUNITIES IN J PERIODS (W\* = 50 M/SEC).  
BASED ON MAXIMUM WIND SPEEDS IN THE 10-15 KM LAYER OVER CAPE KENNEDY, FLORIDA.  
PERIOD OF RECORD JANUARY 1956 - DECEMBER 1963.



CAPE KENNEDY, FLORIDA DECEMBER

SPEEDS LESS THAN 655 MPS

PC ( I CONSECUTIVE SUCCESSES IN J PERIODS )

		I																			
J		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
1	.754																				
2	.835	.673																			
3	.891	.740	.605																		
4	.927	.808	.661	.544																	
5	.950	.851	.720	.597	.486																
6	.962	.885	.776	.651	.526	.442															
7	.970	.907	.810	.704	.569	.476	.405														
8	.978	.923	.841	.758	.609	.512	.435	.375													
9	.984	.935	.863	.792	.649	.546	.468	.399	.351												
10	.990	.948	.881	.821	.688	.581	.498	.425	.373	.331											
11	.994	.956	.897	.843	.714	.613	.528	.450	.397	.351	.313										
12	.998	.964	.913	.861	.736	.645	.556	.474	.419	.373	.331	.296									
13	1.00	.972	.927	.877	.756	.669	.585	.496	.442	.395	.351	.315	.280								
14	1.00	.980	.938	.893	.772	.690	.613	.518	.462	.417	.371	.335	.296	.266							
15	1.00	.988	.948	.907	.786	.710	.633	.540	.482	.437	.391	.355	.315	.282	.252						
16	1.00	.994	.958	.917	.800	.728	.651	.560	.502	.458	.409	.375	.333	.300	.268	.236					
17	1.00	.998	.968	.927	.813	.744	.669	.575	.520	.478	.427	.393	.351	.319	.286	.250	.222				
18	1.00	1.00	.976	.938	.823	.760	.685	.587	.538	.496	.446	.411	.367	.337	.304	.266	.236	.208			
19	1.00	1.00	.982	.948	.833	.774	.702	.597	.552	.514	.464	.429	.383	.353	.323	.282	.252	.222	.194		
20	1.00	1.00	.986	.956	.841	.786	.718	.607	.565	.532	.482	.448	.399	.369	.339	.298	.268	.238	.208	.179	
21	1.00	1.00	.988	.962	.849	.794	.732	.617	.577	.546	.500	.466	.415	.385	.355	.313	.284	.254	.224	.192	
22	1.00	1.00	.990	.968	.855	.802	.742	.627	.589	.558	.518	.484	.431	.401	.371	.327	.298	.270	.240	.206	
23	1.00	1.00	.992	.974	.859	.810	.752	.635	.601	.571	.532	.502	.448	.417	.387	.341	.313	.282	.256	.220	
24	1.00	1.00	.994	.980	.865	.819	.762	.641	.611	.583	.544	.520	.464	.433	.403	.355	.327	.294	.268	.234	
25	1.00	1.00	.996	.986	.869	.827	.772	.647	.621	.593	.556	.534	.480	.450	.419	.369	.341	.306	.280	.246	
26	1.00	1.00	.998	.990	.873	.835	.782	.653	.629	.603	.567	.546	.496	.466	.435	.383	.355	.319	.292	.258	
27	1.00	1.00	1.00	.994	.877	.841	.790	.661	.637	.613	.577	.556	.510	.482	.452	.397	.369	.331	.304	.270	
28	1.00	1.00	1.00	.998	.883	.847	.798	.669	.647	.623	.587	.567	.520	.498	.468	.411	.383	.343	.317	.282	
29	1.00	1.00	1.00	1.00	.887	.855	.804	.675	.655	.634	.597	.577	.530	.510	.484	.425	.397	.355	.329	.294	
30	1.00	1.00	1.00	1.00	.891	.863	.813	.681	.663	.643	.609	.587	.540	.520	.498	.440	.411	.367	.341	.306	
31	1.00	1.00	1.00	1.00	.897	.869	.821	.688	.669	.651	.617	.599	.550	.530	.510	.452	.425	.379	.353	.319	
32	1.00	1.00	1.00	1.00	.901	.877	.829	.694	.675	.659	.625	.607	.563	.540	.520	.464	.438	.391	.365	.331	
33	1.00	1.00	1.00	1.00	.905	.885	.839	.700	.681	.665	.633	.615	.571	.550	.530	.474	.450	.401	.377	.343	
34	1.00	1.00	1.00	1.00	.909	.891	.844	.708	.688	.671	.641	.623	.579	.556	.540	.484	.462	.411	.387	.355	
35	1.00	1.00	1.00	1.00	.913	.897	.859	.716	.696	.677	.647	.631	.587	.563	.546	.494	.472	.421	.397	.365	
36	1.00	1.00	1.00	1.00	.917	.903	.867	.724	.704	.685	.653	.639	.595	.569	.552	.500	.482	.431	.407	.375	
37	1.00	1.00	1.00	1.00	.921	.909	.875	.732	.712	.694	.661	.645	.603	.575	.558	.506	.488	.440	.417	.385	
38	1.00	1.00	1.00	1.00	.925	.915	.883	.738	.720	.702	.669	.653	.611	.581	.565	.512	.494	.444	.427	.395	
39	1.00	1.00	1.00	1.00	.929	.919	.891	.744	.728	.710	.677	.661	.619	.587	.571	.518	.500	.448	.431	.405	
40	1.00	1.00	1.00	1.00	.933	.923	.899	.750	.734	.718	.685	.669	.627	.593	.577	.524	.506	.452	.435	.411	

TOTAL OBSERVATIONS 496

TABLE 13. 8 a. P(W < W\*) I CONSECUTIVE LAUNCH OPPORTUNITIES IN J PERIODS (W\* = 55 M/SEC).  
 BASED ON MAXIMUM WIND SPEEDS IN THE 10-15 KM LAYER OVER CAPE KENNEDY, FLORIDA.  
 PERIOD OF RECORD JANUARY 1956 - DECEMBER 1963.

CAPE KENNEDY - FLORIDA DECEMBER

SPEEDS LESS THAN 055 MPS

P ( I SUCCESSES IN J PERIODS )

	I																				
J	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	
1	.754																				
2	.835	.673																			
3	.891	.766	.605																		
4	.927	.829	.712	.544																	
5	.950	.877	.774	.671	.486																
6	.962	.907	.835	.736	.623	.442															
7	.970	.929	.871	.802	.692	.581	.405														
8	.978	.944	.899	.843	.764	.651	.542	.375													
9	.984	.956	.919	.875	.810	.728	.613	.504	.351												
10	.990	.964	.933	.901	.849	.780	.685	.575	.474	.331											
11	.994	.972	.948	.913	.883	.825	.740	.647	.542	.446	.313										
12	.998	.978	.962	.927	.893	.867	.788	.706	.611	.510	.425	.296									
13	1.00	.986	.972	.944	.905	.879	.837	.760	.667	.577	.490	.405	.280								
14	1.00	.994	.980	.960	.919	.891	.853	.815	.724	.635	.550	.466	.387	.266							
15	1.00	.998	.990	.968	.942	.903	.867	.831	.788	.692	.611	.518	.446	.371	.252						
16	1.00	1.00	.996	.980	.954	.927	.881	.843	.806	.764	.663	.577	.498	.425	.355	.236					
17	1.00	1.00	1.00	.990	.972	.938	.907	.857	.819	.784	.740	.629	.552	.476	.409	.337	.222				
18	1.00	1.00	1.00	.998	.982	.962	.915	.887	.833	.798	.756	.716	.607	.522	.458	.393	.323	.208			
19	1.00	1.00	1.00	1.00	.992	.974	.942	.899	.863	.813	.768	.738	.698	.575	.500	.440	.379	.310	.194		
20	1.00	1.00	1.00	1.00	.996	.988	.958	.925	.879	.839	.780	.754	.720	.671	.554	.480	.421	.365	.298	.179	
21	1.00	1.00	1.00	1.00	.998	.994	.978	.940	.909	.857	.804	.764	.736	.702	.651	.532	.460	.405	.351	.284	
22	1.00	1.00	1.00	1.00	1.00	.996	.988	.962	.925	.891	.823	.786	.746	.722	.685	.629	.506	.446	.389	.335	
23	1.00	1.00	1.00	1.00	1.00	1.00	.992	.976	.948	.909	.859	.802	.766	.734	.708	.667	.605	.484	.429	.371	
24	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.984	.966	.929	.881	.839	.780	.752	.722	.692	.651	.579	.458	.415	
25	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.996	.976	.956	.897	.863	.823	.762	.740	.708	.677	.627	.546	.442	
26	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.998	.990	.970	.929	.877	.847	.804	.748	.726	.696	.657	.595	.524	
27	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.996	.984	.948	.913	.861	.829	.788	.734	.714	.679	.625	.575	
28	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.994	.964	.933	.899	.843	.808	.776	.722	.698	.653	.605	
29	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.980	.952	.923	.879	.823	.794	.766	.706	.675	.631	
30	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.990	.972	.942	.905	.859	.808	.784	.752	.683	.653	
31	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.994	.982	.964	.925	.883	.847	.798	.770	.732	.661	
32	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.996	.988	.978	.948	.901	.873	.835	.784	.750	.712	
33	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.998	.990	.986	.968	.919	.891	.863	.819	.764	.730	
34	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.992	.988	.980	.942	.907	.879	.851	.796	.744	
35	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.996	.990	.982	.958	.929	.895	.867	.831	.776	
36	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.998	.994	.984	.964	.946	.917	.885	.845	.813	
37	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.996	.988	.968	.952	.935	.907	.867	.827	
38	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.992	.970	.956	.944	.927	.891	.851	
39	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.976	.958	.948	.938	.915	.875	
40	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.990	.964	.950	.942	.929	.901

TOTAL OBSERVATIONS 496

TABLE 12. 8.b. P(N < W\*) I LAUNCH OPPORTUNITIES IN J PERIODS (W\* = 55 M/SEC).  
 BASED ON MAXIMUM WIND SPEEDS IN THE 10-15 KM LAYER OVER CAPE KENNEDY, FLORIDA.  
 PERIOD OF RECORD JANUARY 1956 - DECEMBER 1963.

CAPE KENNEDY, FLORIDA DECEMBER  
SPEEDS LESS THAN 060 MPS

PC ( I CONSECUTIVE SUCCESSSES IN J PERIODS )

J	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	
1	.835																				
2	.901	.768																			
3	.938	.829	.706																		
4	.962	.893	.754	.653																	
5	.976	.925	.806	.692	.609																
6	.982	.952	.857	.734	.643	.569															
7	.988	.968	.885	.774	.681	.599	.534														
8	.992	.976	.907	.817	.718	.633	.565	.502													
9	.996	.982	.923	.841	.754	.665	.599	.528	.474												
10	.998	.986	.935	.865	.790	.698	.631	.558	.496	.452											
11	1.00	.990	.946	.885	.815	.730	.663	.587	.522	.468	.435										
12	1.00	.992	.954	.901	.839	.762	.696	.615	.546	.488	.452	.419									
13	1.00	.994	.962	.915	.859	.784	.728	.643	.571	.508	.472	.435	.403								
14	1.00	.996	.968	.925	.877	.806	.760	.671	.593	.528	.492	.456	.419	.387							
15	1.00	.998	.974	.933	.891	.827	.782	.700	.615	.546	.512	.476	.440	.403	.371						
16	1.00	1.00	.980	.940	.901	.847	.806	.726	.637	.565	.530	.496	.460	.423	.387	.355					
17	1.00	1.00	.986	.946	.909	.861	.829	.748	.657	.583	.548	.514	.480	.444	.407	.369	.341				
18	1.00	1.00	.990	.952	.917	.873	.847	.770	.679	.599	.567	.532	.498	.464	.427	.387	.355	.327			
19	1.00	1.00	.992	.958	.925	.883	.861	.786	.698	.617	.583	.550	.516	.482	.448	.405	.373	.341	.313		
20	1.00	1.00	.994	.964	.933	.893	.873	.800	.716	.635	.601	.567	.534	.500	.466	.423	.391	.359	.327	.298	
21	1.00	1.00	.996	.970	.942	.901	.883	.815	.732	.651	.619	.585	.550	.518	.484	.440	.409	.377	.345	.313	
22	1.00	1.00	.998	.976	.950	.909	.891	.827	.746	.667	.637	.603	.569	.534	.502	.456	.425	.395	.363	.331	
23	1.00	1.00	1.00	.982	.956	.917	.899	.835	.760	.683	.653	.621	.587	.552	.518	.472	.442	.411	.381	.349	
24	1.00	1.00	1.00	.988	.962	.925	.907	.843	.772	.700	.669	.639	.605	.571	.536	.488	.458	.427	.397	.367	
25	1.00	1.00	1.00	.992	.968	.931	.915	.851	.782	.714	.685	.655	.623	.589	.554	.506	.474	.444	.413	.383	
26	1.00	1.00	1.00	.994	.976	.938	.923	.859	.792	.728	.700	.671	.641	.607	.573	.524	.492	.460	.429	.399	
27	1.00	1.00	1.00	.996	.984	.944	.929	.867	.802	.742	.714	.685	.657	.625	.591	.542	.510	.478	.446	.415	
28	1.00	1.00	1.00	.998	.988	.950	.935	.875	.813	.756	.728	.700	.671	.643	.609	.560	.528	.496	.464	.431	
29	1.00	1.00	1.00	1.00	.992	.956	.942	.881	.821	.768	.742	.714	.685	.657	.627	.579	.546	.514	.482	.450	
30	1.00	1.00	1.00	1.00	.996	.960	.948	.887	.829	.778	.754	.728	.700	.671	.643	.597	.565	.532	.500	.468	
31	1.00	1.00	1.00	1.00	1.00	.964	.954	.893	.835	.788	.764	.740	.714	.685	.657	.613	.583	.550	.518	.486	
32	1.00	1.00	1.00	1.00	1.00	.968	.958	.899	.841	.798	.774	.750	.726	.700	.671	.629	.599	.569	.536	.504	
33	1.00	1.00	1.00	1.00	1.00	.972	.962	.905	.847	.804	.784	.760	.736	.712	.685	.643	.615	.585	.554	.522	
34	1.00	1.00	1.00	1.00	1.00	.972	.966	.909	.853	.810	.794	.770	.746	.722	.698	.657	.631	.601	.571	.540	
35	1.00	1.00	1.00	1.00	1.00	.972	.970	.913	.859	.817	.800	.780	.756	.732	.708	.669	.645	.617	.587	.556	
36	1.00	1.00	1.00	1.00	1.00	.972	.970	.917	.865	.825	.806	.790	.766	.742	.718	.679	.657	.633	.603	.573	
37	1.00	1.00	1.00	1.00	1.00	.972	.970	.921	.871	.831	.815	.796	.776	.752	.728	.690	.667	.645	.619	.589	
38	1.00	1.00	1.00	1.00	1.00	.972	.970	.923	.877	.837	.823	.804	.786	.762	.738	.700	.677	.655	.633	.605	
39	1.00	1.00	1.00	1.00	1.00	.972	.970	.925	.883	.843	.829	.813	.794	.772	.748	.710	.688	.665	.643	.619	
40	1.00	1.00	1.00	1.00	1.00	.972	.970	.927	.887	.849	.835	.821	.802	.784	.758	.720	.698	.675	.653	.631	
TOTAL OBSERVATIONS 496																					

TABLE 12. 9.a. P(W < W\*) I CONSECUTIVE LAUNCH OPPORTUNITIES IN J PERIODS (W\* = 60 M/SEC).  
BASED ON MAXIMUM WIND SPEEDS IN THE 10-15 KM LAYER OVER CAPE KENNEDY, FLORIDA.

CAPE KENNEDY, FLORIDA DECEMBER  
SPEEDS LESS THAN 060 MPS

P ( I SUCCESSES IN J PERIODS )

J	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	
1	.835																				
2	.901	.768																			
3	.938	.863	.706																		
4	.962	.907	.819	.653																	
5	.976	.944	.869	.776	.609																
6	.982	.966	.913	.833	.744	.569															
7	.988	.972	.944	.889	.800	.712	.534														
8	.992	.980	.954	.927	.865	.770	.681	.502													
9	.996	.984	.966	.940	.911	.843	.742	.647	.474												
10	.998	.990	.974	.952	.923	.899	.823	.710	.613	.452											
11	1.00	.992	.984	.964	.935	.911	.887	.802	.673	.579	.435										
12	1.00	.996	.988	.978	.950	.923	.899	.873	.778	.631	.558	.419									
13	1.00	.998	.994	.984	.968	.935	.911	.889	.855	.744	.605	.542	.403								
14	1.00	1.00	.996	.992	.978	.956	.923	.899	.877	.829	.718	.581	.528	.387							
15	1.00	1.00	1.00	.994	.988	.968	.948	.911	.885	.859	.806	.694	.558	.514	.371						
16	1.00	1.00	1.00	1.00	.990	.980	.964	.935	.897	.867	.843	.784	.671	.540	.500	.355					
17	1.00	1.00	1.00	1.00	.998	.984	.976	.958	.919	.879	.851	.823	.766	.651	.524	.484	.341				
18	1.00	1.00	1.00	1.00	1.00	.994	.980	.972	.948	.899	.863	.831	.808	.750	.629	.510	.468	.327			
19	1.00	1.00	1.00	1.00	1.00	1.00	.990	.976	.966	.929	.885	.841	.821	.796	.730	.611	.496	.452	.313		
20	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.986	.970	.952	.915	.863	.831	.810	.782	.714	.593	.482	.435	.298	
21	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.980	.960	.938	.893	.853	.821	.798	.768	.696	.579	.468	.419	
22	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.998	.974	.946	.917	.883	.843	.808	.786	.750	.683	.565	.454	
23	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.996	.964	.925	.907	.873	.831	.794	.772	.736	.671	.550	
24	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.994	.942	.917	.895	.865	.817	.780	.758	.724	.659	
25	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.980	.931	.905	.887	.855	.802	.766	.748	.712	
26	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.996	.970	.915	.899	.877	.845	.786	.756	.738	
27	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.992	.950	.907	.891	.869	.833	.774	.746	
28	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.978	.938	.897	.885	.857	.823	.764	
29	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.992	.970	.925	.889	.875	.847	.815
30	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.996	.986	.960	.913	.879	.867	.839
31	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.998	.994	.978	.946	.901	.871	.861
32	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.996	.990	.966	.929	.893	.865
33	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.992	.984	.950	.917	.887	
34	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.998	.988	.972	.938	.907	
35	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.998	.996	.978	.962	.929	
36	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.998	.996	.988	.972	.954	
37	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.998	.996	.988	.986	.966	
38	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.998	.996	.988	.986	.982	
39	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.996	.988	.986	.982		
40	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.988	.986	.982	

TOTAL OBSERVATIONS 496

TABLE 12. 9. b. P(W < W\*) I LAUNCH OPPORTUNITIES IN J PERIODS (W\* = 60 M/SEC).  
BASED ON MAXIMUM WIND SPEEDS IN THE 10-15 KM LAYER OVER CAPE KENNEDY, FLORIDA.  
PERIOD OF RECORD JANUARY 1956 - DECEMBER 1963.

CAPE KENNEDY, FLORIDA DECEMBER

SPEEDS LESS THAN 065 MPS

PC ( I CONSECUTIVE SUCCESSES IN J PERIODS )

J	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
1	.899																			
2	.950	.853																		
3	.970	.901	.806																	
4	.982	.948	.851	.764																
5	.990	.966	.893	.802	.728															
6	.994	.976	.935	.839	.758	.700														
7	.998	.982	.956	.875	.786	.730	.671													
8	1.00	.988	.968	.911	.815	.758	.700	.643												
9	1.00	.994	.976	.929	.843	.786	.726	.669	.617											
10	1.00	.998	.984	.942	.871	.815	.752	.694	.643	.593										
11	1.00	1.00	.992	.952	.885	.843	.778	.718	.667	.617	.571									
12	1.00	1.00	.998	.962	.895	.869	.804	.742	.692	.639	.593	.550								
13	1.00	1.00	1.00	.970	.903	.885	.831	.766	.716	.661	.613	.571	.532							
14	1.00	1.00	1.00	.978	.911	.895	.859	.790	.740	.683	.633	.591	.550	.516						
15	1.00	1.00	1.00	.984	.919	.903	.875	.817	.764	.704	.653	.611	.569	.534	.500					
16	1.00	1.00	1.00	.988	.927	.911	.885	.845	.790	.724	.671	.631	.587	.552	.518	.484				
17	1.00	1.00	1.00	.992	.933	.919	.895	.861	.819	.746	.690	.649	.605	.571	.536	.502	.468			
18	1.00	1.00	1.00	.996	.940	.927	.905	.873	.847	.770	.708	.667	.621	.589	.554	.520	.486	.452		
19	1.00	1.00	1.00	1.00	.946	.933	.915	.885	.861	.794	.728	.685	.637	.605	.573	.538	.504	.470	.435	
20	1.00	1.00	1.00	1.00	.952	.940	.925	.897	.873	.810	.748	.706	.653	.621	.589	.556	.522	.488	.454	.419
21	1.00	1.00	1.00	1.00	.958	.946	.933	.909	.885	.833	.768	.726	.671	.637	.605	.573	.540	.506	.472	.438
22	1.00	1.00	1.00	1.00	.964	.952	.940	.921	.897	.845	.788	.746	.690	.655	.621	.589	.556	.524	.490	.456
23	1.00	1.00	1.00	1.00	.970	.958	.946	.929	.909	.857	.800	.766	.708	.673	.639	.605	.573	.540	.508	.474
24	1.00	1.00	1.00	1.00	.976	.964	.952	.938	.919	.869	.810	.788	.726	.692	.657	.623	.589	.556	.524	.492
25	1.00	1.00	1.00	1.00	.982	.970	.958	.946	.927	.879	.821	.800	.744	.710	.675	.641	.607	.573	.540	.508
26	1.00	1.00	1.00	1.00	.988	.976	.964	.952	.935	.889	.829	.810	.762	.728	.694	.659	.625	.591	.556	.524
27	1.00	1.00	1.00	1.00	.992	.982	.970	.958	.944	.897	.837	.819	.774	.746	.712	.677	.643	.609	.575	.540
28	1.00	1.00	1.00	1.00	.994	.988	.976	.964	.950	.907	.845	.827	.782	.762	.730	.696	.661	.627	.593	.558
29	1.00	1.00	1.00	1.00	.996	.992	.982	.970	.956	.917	.853	.835	.790	.772	.746	.714	.679	.645	.611	.577
30	1.00	1.00	1.00	1.00	.998	.994	.988	.976	.962	.923	.861	.845	.798	.780	.760	.730	.698	.663	.629	.595
31	1.00	1.00	1.00	1.00	1.00	.996	.992	.982	.968	.929	.867	.853	.808	.788	.770	.744	.714	.681	.647	.613
32	1.00	1.00	1.00	1.00	1.00	.998	.994	.988	.974	.935	.873	.859	.819	.798	.778	.758	.728	.698	.665	.631
33	1.00	1.00	1.00	1.00	1.00	1.00	.996	.992	.980	.942	.879	.865	.825	.808	.788	.768	.742	.712	.681	.649
34	1.00	1.00	1.00	1.00	1.00	1.00	.998	.994	.986	.948	.885	.871	.831	.817	.798	.778	.756	.726	.696	.665
35	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.996	.990	.954	.891	.877	.837	.823	.806	.788	.768	.740	.710	.679
36	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.998	.992	.960	.897	.883	.843	.829	.815	.796	.778	.756	.724	.694
37	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.994	.964	.903	.889	.849	.835	.821	.804	.786	.768	.740	.708
38	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.996	.964	.907	.895	.855	.841	.827	.813	.794	.776	.756	.724
39	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.998	.972	.911	.899	.861	.847	.833	.819	.802	.784	.766	.740
40	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.998	.976	.915	.903	.865	.853	.839	.825	.810	.792	.774	.754

TOTAL OBSERVATIONS 496

TABLE 12.10.a. P(W < W\*) I CONSECUTIVE LAUNCH OPPORTUNITIES IN J PERIODS (W\* = 65 M/SEC).  
 BASED ON MAXIMUM WIND SPEEDS IN THE 10-15 KM LAYER OVER CAPE KENNEDY, FLORIDA.  
 PERIOD OF RECORD JANUARY 1956 - DECEMBER 1963.

CAPE KENNEDY, FLORIDA DECEMBER

SPEEDS LESS THAN 065 MPS

P ( I SUCCESSES IN J PERIODS )

	I																				
J	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	
1	.899																				
2	.950	.853																			
3	.970	.929	.806																		
4	.982	.956	.907	.764																	
5	.990	.970	.946	.879	.728																
6	.994	.980	.964	.929	.849	.700															
7	.998	.986	.974	.952	.909	.827	.671														
8	1.00	.994	.980	.962	.940	.893	.804	.643													
9	1.00	1.00	.990	.968	.954	.927	.877	.782	.617												
10	1.00	1.00	1.00	.980	.960	.946	.915	.857	.766	.593											
11	1.00	1.00	1.00	.996	.972	.952	.940	.897	.841	.748	.571										
12	1.00	1.00	1.00	.998	.994	.962	.946	.927	.883	.823	.730	.550									
13	1.00	1.00	1.00	1.00	.996	.990	.954	.940	.913	.869	.804	.632									
14	1.00	1.00	1.00	1.00	1.00	.994	.986	.946	.929	.899	.857	.765	.698	.515							
15	1.00	1.00	1.00	1.00	1.00	1.00	.992	.980	.935	.919	.887	.843	.772	.683	.500						
16	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.988	.972	.927	.909	.871	.829	.760	.684						
17	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.998	.982	.966	.919	.893	.855	.819	.746	.657	.468				
18	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.996	.976	.960	.907	.873	.845	.808	.730	.645	.452			
19	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.994	.970	.954	.885	.863	.835	.796	.714	.633	.435		
20	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.992	.964	.935	.875	.853	.823	.786	.700	.621	.419	
21	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.988	.946	.929	.865	.841	.813	.772	.690	.609	
22	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.972	.940	.923	.853	.829	.800	.760	.679	
23	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.994	.962	.933	.917	.841	.815	.790	.748
24	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.996	.992	.952	.927	.911	.827	.802	.780
25	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.998	.994	.990	.942	.921	.903	.815	.790
26	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.996	.992	.986	.933	.915	.895	.802
27	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.994	.990	.980	.927	.909	.887	
28	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.992	.986	.976	.921	.903	
29	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.988	.984	.972	.915	
30	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.998	.986	.982	.966	
31	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.996	.984	.973	
32	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.994	.980	
33	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.990	
34	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.998	
35	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.998	
36	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.998	
37	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.998	
38	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.998	
39	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	
40	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	

TOTAL OBSERVATIONS 496

TABLE 12.10.b. P(W < W\*) I LAUNCH OPPORTUNITIES IN J PERIODS (W\* = 65 M/SEC).  
 BASED ON MAXIMUM WIND SPEEDS IN THE 10-15 KM LAYER OVER CAPE KENNEDY, FLORIDA.  
 PERIOD OF RECORD JANUARY 1956 - DECEMBER 1963.

CAPE KENNEDY, FLORIDA, DECEMBER  
 SPFFDS LESS THAN 070 MPS

PC ( I CONSECUTIVE SUCCESSSES IN J PERIODS )

	I																				
J	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	
1	.946																				
2	.976	.919																			
3	.986	.948	.893																		
4	.992	.974	.921	.867																	
5	.996	.984	.948	.895	.841																
6	.998	.992	.974	.921	.865	.817															
7	1.00	.996	.986	.948	.887	.833	.794														
8	1.00	.998	.992	.976	.909	.859	.817	.772													
9	1.00	1.00	.996	.986	.933	.879	.837	.794	.750												
10	1.00	1.00	.998	.992	.956	.901	.857	.815	.772	.728											
11	1.00	1.00	1.00	.996	.966	.921	.879	.835	.792	.748	.708										
12	1.00	1.00	1.00	.998	.974	.942	.899	.857	.813	.766	.728	.688									
13	1.00	1.00	1.00	1.00	.980	.954	.919	.877	.835	.784	.746	.708	.671								
14	1.00	1.00	1.00	1.00	.986	.962	.942	.897	.855	.804	.764	.726	.692	.655							
15	1.00	1.00	1.00	1.00	.992	.968	.954	.919	.875	.823	.784	.744	.710	.673	.641						
16	1.00	1.00	1.00	1.00	.994	.974	.962	.942	.897	.841	.802	.762	.728	.690	.659	.627					
17	1.00	1.00	1.00	1.00	.996	.980	.968	.954	.919	.861	.821	.778	.746	.706	.675	.645	.613				
18	1.00	1.00	1.00	1.00	.998	.984	.974	.962	.942	.881	.841	.794	.762	.722	.692	.661	.631	.599			
19	1.00	1.00	1.00	1.00	1.00	.988	.980	.968	.954	.901	.861	.813	.778	.736	.708	.677	.647	.617	.585		
20	1.00	1.00	1.00	1.00	1.00	.992	.984	.974	.962	.921	.881	.831	.794	.750	.722	.694	.663	.633	.603	.571	
21	1.00	1.00	1.00	1.00	1.00	.996	.988	.980	.968	.935	.901	.849	.810	.764	.736	.708	.679	.649	.619	.589	
22	1.00	1.00	1.00	1.00	1.00	.998	.992	.984	.974	.946	.921	.867	.827	.778	.750	.722	.694	.665	.635	.605	
23	1.00	1.00	1.00	1.00	1.00	1.00	.996	.988	.980	.954	.935	.885	.843	.792	.764	.736	.708	.679	.651	.621	
24	1.00	1.00	1.00	1.00	1.00	1.00	.998	.992	.984	.962	.946	.903	.859	.806	.778	.750	.722	.694	.665	.637	
25	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.996	.988	.970	.954	.915	.875	.821	.792	.764	.736	.708	.679	.651	
26	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.998	.992	.976	.962	.923	.889	.835	.806	.778	.750	.722	.694	.665	
27	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.996	.984	.970	.929	.899	.849	.821	.792	.764	.736	.708	.679	
28	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.998	.990	.978	.938	.905	.863	.835	.806	.778	.750	.722	.694
29	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.996	.986	.948	.913	.873	.849	.821	.792	.764	.736	.708	
30	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.998	.992	.956	.921	.883	.861	.835	.806	.778	.750	.722	
31	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.996	.964	.929	.893	.873	.847	.821	.792	.764	.736	
32	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.998	.963	.935	.903	.883	.861	.833	.806	.778	.750	
33	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.972	.940	.913	.893	.873	.847	.819	.792	.764	
34	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.976	.944	.919	.903	.883	.861	.833	.804	.778	
35	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.980	.948	.925	.911	.893	.873	.847	.819	.790	
36	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.982	.952	.931	.917	.901	.883	.861	.833	.804	
37	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.984	.956	.938	.923	.909	.891	.873	.847	.819	
38	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.986	.958	.944	.929	.915	.899	.881	.861	.833	
39	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.988	.960	.950	.935	.921	.907	.889	.871	.847	
40	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.990	.962	.954	.942	.927	.913	.897	.879	.859	
TOTAL OBSERVATIONS 496																					

TABLE 12.11.a. P(N < M) I CONSECUTIVE LAUNCH OPPORTUNITIES IN J PERIODS (M = 70 M/SEC).  
 BASED ON MAXIMUM WIND SPEEDS IN THE 10-15 KM LAYER OVER CAPE KENNEDY, FLORIDA.  
 PERIOD OF RECORD JANUARY 1956 - DECEMBER 1963.

CAPE KENNEDY, FLORIDA DECEMBER  
SPEEDS LESS THAN 070 MPS

P ( I SUCCESSES IN J PERIODS )

	I																			
J	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
1	.946																			
2	.976	.919																		
3	.986	.966	.893																	
4	.992	.980	.956	.867																
5	.996	.990	.974	.946	.841															
6	.998	.994	.988	.968	.931	.817														
7	1.00	.996	.992	.986	.960	.915	.794													
8	1.00	1.00	.994	.990	.984	.950	.901	.772												
9	1.00	1.00	1.00	.992	.988	.978	.944	.887	.750											
10	1.00	1.00	1.00	1.00	.990	.984	.974	.938	.873	.728										
11	1.00	1.00	1.00	1.00	1.00	.988	.980	.970	.931	.857	.708									
12	1.00	1.00	1.00	1.00	1.00	1.00	.996	.976	.966	.923	.843	.686								
13	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.984	.972	.962	.915	.829	.671							
14	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.982	.968	.958	.907	.815	.655						
15	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.980	.964	.954	.901	.798	.641					
16	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.978	.960	.950	.891	.782	.627				
17	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.976	.956	.944	.881	.766	.613			
18	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.974	.952	.938	.871	.750	.599		
19	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.972	.948	.929	.863	.734	.585	
20	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.970	.944	.921	.853	.720	.571
21	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.968	.938	.913	.843	.706
22	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.964	.933	.905	.833
23	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.960	.929	.897
24	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.956	.925
25	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.952
26	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
27	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
28	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
29	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
30	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
31	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
32	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
33	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
34	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
35	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
36	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
37	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
38	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
39	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
40	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00

TOTAL OBSERVATIONS 496

TABLE 12.11. b. P(W < W<sub>0</sub>) I LAUNCH OPPORTUNITIES IN J PERIODS (W<sub>0</sub> = 70 M/SEC).  
BASED ON MAXIMUM WIND SPEEDS IN THE 10-15 KM LAYER OVER CAPE KENNEDY, FLORIDA.  
PERIOD OF RECORD JANUARY 1956 - DECEMBER 1963.



CAPE KENNEDY, FLORIDA DECEMBER  
SPEEDS LESS THAN 075 MPS

PC ( I CONSECUTIVE SUCCESSSES IN J PERIODS )

	I																			
J	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
1	.968																			
2	.988	.950																		
3	.994	.970	.931																	
4	.998	.990	.950	.915																
5	1.00	.996	.968	.933	.899															
6	1.00	.998	.986	.952	.915	.883														
7	1.00	1.00	.992	.970	.931	.899	.867													
8	1.00	1.00	.996	.986	.948	.915	.883	.851												
9	1.00	1.00	1.00	.992	.962	.931	.899	.867	.835											
10	1.00	1.00	1.00	.996	.976	.946	.915	.883	.851	.821										
11	1.00	1.00	1.00	1.00	.984	.960	.929	.899	.867	.837	.806									
12	1.00	1.00	1.00	1.00	.990	.974	.944	.913	.883	.853	.823	.792								
13	1.00	1.00	1.00	1.00	.996	.984	.958	.927	.897	.869	.839	.808	.778							
14	1.00	1.00	1.00	1.00	.998	.990	.974	.942	.911	.883	.855	.825	.794	.764						
15	1.00	1.00	1.00	1.00	1.00	.996	.984	.958	.925	.897	.869	.841	.810	.780	.752					
16	1.00	1.00	1.00	1.00	1.00	.998	.990	.974	.942	.911	.883	.855	.827	.796	.768	.738				
17	1.00	1.00	1.00	1.00	1.00	1.00	.996	.984	.958	.927	.897	.869	.841	.813	.784	.754	.724			
18	1.00	1.00	1.00	1.00	1.00	1.00	.998	.990	.974	.944	.913	.883	.855	.827	.800	.770	.740	.710		
19	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.996	.984	.960	.929	.899	.869	.841	.815	.786	.756	.726	.696	
20	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.998	.990	.974	.946	.915	.885	.855	.829	.800	.772	.742	.712	.681
21	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.996	.984	.960	.931	.901	.869	.843	.815	.786	.758	.728	.698
22	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.998	.990	.974	.946	.917	.883	.857	.829	.800	.772	.744	.714
23	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.996	.984	.960	.931	.897	.871	.843	.815	.786	.758	.730
24	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.998	.990	.974	.946	.909	.885	.857	.829	.800	.772	.744
25	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.996	.984	.960	.921	.897	.871	.843	.815	.785	.758
26	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.998	.990	.974	.933	.909	.883	.857	.829	.800	.772
27	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.996	.984	.946	.921	.895	.869	.843	.815	.786
28	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.998	.990	.958	.933	.907	.881	.855	.829	.800
29	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.996	.966	.946	.919	.893	.867	.841	.815
30	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.998	.972	.956	.931	.905	.879	.853	.827
31	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.978	.964	.942	.917	.891	.865	.839
32	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.980	.970	.952	.927	.903	.877
33	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.982	.976	.960	.938	.913	.889
34	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.982	.978	.966	.948	.923	.899
35	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.982	.980	.972	.956	.933	.909
36	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.982	.980	.974	.962	.944	.919
37	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.982	.980	.976	.968	.952	.929
38	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.982	.980	.976	.970	.958	.940
39	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.982	.980	.976	.972	.964	.948
40	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.982	.980	.976	.972	.966	.954

TOTAL OBSERVATIONS 496

TABLE 12.12-a. P(W < W<sub>0</sub>) I CONSECUTIVE LAUNCH OPPORTUNITIES IN J PERIODS (W<sub>0</sub> = 75 M/SEC).  
BASED ON MAXIMUM WIND SPEEDS IN THE 10-15 KM LAYER OVER CAPE KENNEDY, FLORIDA.  
PERIOD OF RECORD JANUARY 1956 - DECEMBER 1963.

CAPE KENNEDY, FLORIDA DECEMBER

SPEEDS LESS THAN 075 MPS

P ( I SUCCESSSES IN J PERIODS )

I

J	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	
1	.948																				
2	.948	.950																			
3	.994	.984	.931																		
4	.994	.972	.979	.915																	
5	1.00	.996	.990	.972	.899																
6	1.00	1.00	.994	.988	.964	.983															
7	1.00	1.00	1.00	.992	.986	.954	.867														
8	1.00	1.00	1.00	1.00	.990	.984	.944	.851													
9	1.00	1.00	1.00	1.00	1.00	.988	.992	.933	.835												
10	1.00	1.00	1.00	1.00	1.00	1.00	.986	.980	.923	.821											
11	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.984	.978	.913	.806										
12	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.982	.976	.903	.792									
13	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.980	.974	.893	.778								
14	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.978	.972	.883	.764							
15	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.976	.970	.873	.752						
16	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.974	.968	.863	.738					
17	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.972	.966	.851	.724				
18	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.970	.964	.839	.710			
19	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.968	.962	.827	.696		
20	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.966	.960	.815	.681	
21	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.964	.956	.802	
22	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.962	.952	
23	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.960	
24	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
25	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
26	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
27	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
28	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
29	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
30	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
31	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
32	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
33	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
34	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
35	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
36	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
37	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
38	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
39	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
40	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00

TOTAL OBSERVATIONS 496

TABLE 12.12.b. P(W < W0) I LAUNCH OPPORTUNITIES IN J PERIODS (W0 = 75 M/SEC).  
 BASED ON MAXIMUM WIND SPEEDS IN THE 10-15 KM LAYER OVER CAPE KENNEDY, FLORIDA.  
 PERIOD OF RECORD JANUARY 1956 - DECEMBER 1963.

CAPE KENNEDY, FLORIDA DECEMBER  
SPEEDS LESS THAN 800 MPS

PC ( 1 CONSECUTIVE SUCCESSES IN J PERIODS )

	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
1	.992																			
2	.998	.986																		
3	1.00	.992	.980																	
4	1.00	.998	.986	.974																
5	1.00	1.00	.992	.980	.968															
6	1.00	1.00	.998	.986	.974	.962														
7	1.00	1.00	1.00	.992	.980	.968	.956													
8	1.00	1.00	1.00	.998	.986	.974	.962	.950												
9	1.00	1.00	1.00	1.00	.992	.980	.968	.956	.944											
10	1.00	1.00	1.00	1.00	.998	.986	.974	.962	.950	.940										
11	1.00	1.00	1.00	1.00	1.00	.992	.980	.968	.956	.946	.935									
12	1.00	1.00	1.00	1.00	1.00	.998	.986	.974	.962	.952	.942	.931								
13	1.00	1.00	1.00	1.00	1.00	1.00	.992	.980	.968	.958	.948	.938	.927							
14	1.00	1.00	1.00	1.00	1.00	1.00	.998	.986	.974	.964	.954	.944	.933	.923						
15	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.992	.980	.970	.960	.950	.940	.929	.919					
16	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.998	.986	.976	.966	.956	.946	.935	.925	.915				
17	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.992	.982	.972	.962	.952	.942	.931	.921	.909			
18	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.998	.988	.978	.968	.958	.948	.938	.927	.915	.903		
19	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.994	.984	.974	.964	.954	.944	.933	.921	.909	.897	
20	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.998	.990	.980	.970	.960	.950	.940	.927	.915	.903	.891
21	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.994	.986	.976	.966	.956	.946	.933	.921	.909	.897
22	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.998	.990	.982	.972	.962	.952	.940	.927	.915	.903
23	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.994	.986	.978	.968	.958	.946	.933	.921	.909
24	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.998	.990	.982	.974	.964	.952	.940	.927	.915
25	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.994	.986	.978	.970	.958	.946	.933	.921
26	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.998	.990	.982	.974	.964	.952	.940	.927
27	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.994	.986	.978	.968	.958	.946	.933
28	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.998	.990	.982	.972	.962	.952	.940
29	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.994	.986	.976	.966	.956	.946
30	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.998	.990	.980	.970	.960	.950
31	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.994	.984	.974	.964	.954
32	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.998	.988	.978	.968	.958
33	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.992	.982	.972	.962
34	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.996	.986	.976	.966
35	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.998	.990	.980	.970
36	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.998	.994	.984	.974
37	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.998	.996	.988	.978
38	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.998	.998	.992	.982
39	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.998	.994	.984	.986
40	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.998	.996	.994	.990

TOTAL OBSERVATIONS 496

TABLE 12 (3) (W < 80) 1 CONSECUTIVE LAUNCH OPPORTUNITIES IN J PERIODS (W = 80 M/SEC).  
BASED ON MAXIMUM WIND SPEEDS IN THE 10-15 KM LAYER OVER CAPE KENNEDY, FLORIDA.  
PERIOD OF RECORD JANUARY 1956 - DECEMBER 1963.

CAPE KENNEDY, FLORIDA DECEMBER  
SPEEDS LESS THAN 080 MPS

P ( I SUCCESSES IN J PERIODS )

	I																			
J	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
1	.992																			
2	.998	.986																		
3	1.00	.996	.980																	
4	1.00	1.00	.994	.974																
5	1.00	1.00	1.00	.992	.968															
6	1.00	1.00	1.00	1.00	.990	.962														
7	1.00	1.00	1.00	1.00	1.00	.988	.956													
8	1.00	1.00	1.00	1.00	1.00	1.00	.986	.950												
9	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.984	.944											
10	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.982	.940										
11	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.980	.935									
12	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.978	.931								
13	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.976	.927							
14	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.974	.923						
15	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.972	.919					
16	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.970	.915				
17	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.968	.909			
18	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.966	.903		
19	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.964	.897	
20	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.962	.891
21	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.960
22	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
23	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
24	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
25	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
26	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
27	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
28	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
29	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
30	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
31	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
32	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
33	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
34	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
35	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
36	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
37	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
38	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
39	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
40	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00

TOTAL OBSERVATIONS 496

TABLE 12.13.5. P(W < W\*) I LAUNCH OPPORTUNITIES IN J PERIODS (W\* = 80 M/SEC).  
BASED ON MAXIMUM WIND SPEEDS IN THE 10-15 KM LAYER OVER CAPE KENNEDY, FLORIDA.  
PERIOD OF RECORD JANUARY 1956 - DECEMBER 1963.

PRECEDING PAGE BLANK NOT FILMED.

Tables

Part II:  $P(W \geq W^*)$

		Page
1.1.a	January consecutive launch opportunities	$W^* = 25$ m/sec 297
1.1.b	January launch opportunities	$W^* = 25$ m/sec 298
1.2.a	January consecutive launch opportunities	$W^* = 30$ m/sec 299
1.2.b	January launch opportunities	$W^* = 30$ m/sec 300
1.3.a	January consecutive launch opportunities	$W^* = 35$ m/sec 301
1.3.b	January launch opportunities	$W^* = 35$ m/sec 302
1.4.a	January consecutive launch opportunities	$W^* = 40$ m/sec 303
1.4.b	January launch opportunities	$W^* = 40$ m/sec 304
1.5.a	January consecutive launch opportunities	$W^* = 45$ m/sec 305
1.5.b	January launch opportunities	$W^* = 45$ m/sec 306
1.6.a	January consecutive launch opportunities	$W^* = 50$ m/sec 307
1.6.b	January launch opportunities	$W^* = 50$ m/sec 308
1.7.a	January consecutive launch opportunities	$W^* = 55$ m/sec 309
1.7.b	January launch opportunities	$W^* = 55$ m/sec 310
1.8.a	January consecutive launch opportunities	$W^* = 60$ m/sec 311
1.8.b	January launch opportunities	$W^* = 60$ m/sec 312
1.9.a	January consecutive launch opportunities	$W^* = 65$ m/sec 313
1.9.b	January launch opportunities	$W^* = 65$ m/sec 314
1.10.a	January consecutive launch opportunities	$W^* = 70$ m/sec 315
1.10.b	January launch opportunities	$W^* = 70$ m/sec 316
1.11.a	January consecutive launch opportunities	$W^* = 75$ m/sec 317
1.11.b	January launch opportunities	$W^* = 75$ m/sec 318
1.12.a	January consecutive launch opportunities	$W^* = 80$ m/sec 319
1.12.b	January launch opportunities	$W^* = 80$ m/sec 320
		283

Tables

Part II:  $P(W \geq W^*)$

		Page
1.13.a	January consecutive launch opportunities	$W^* = 85$ m/sec 321
1.13.b	January launch opportunities	$W^* = 85$ m/sec 322
2.1.a	February consecutive launch opportunities	$W^* = 25$ m/sec 323
2.1.b	February launch opportunities	$W^* = 25$ m/sec 324
2.2.a	February consecutive launch opportunities	$W^* = 30$ m/sec 325
2.2.b	February launch opportunities	$W^* = 30$ m/sec 326
2.3.a	February consecutive launch opportunities	$W^* = 35$ m/sec 327
2.3.b	February launch opportunities	$W^* = 35$ m/sec 328
2.4.a	February consecutive launch opportunities	$W^* = 40$ m/sec 329
2.4.b	February launch opportunities	$W^* = 40$ m/sec 330
2.5.a	February consecutive launch opportunities	$W^* = 45$ m/sec 331
2.5.b	February launch opportunities	$W^* = 45$ m/sec 332
2.6.a	February consecutive launch opportunities	$W^* = 50$ m/sec 333
2.6.b	February launch opportunities	$W^* = 50$ m/sec 334
2.7.a	February consecutive launch opportunities	$W^* = 55$ m/sec 335
2.7.b	February launch opportunities	$W^* = 55$ m/sec 336
2.8.a	February consecutive launch opportunities	$W^* = 60$ m/sec 337
2.8.b	February launch opportunities	$W^* = 60$ m/sec 338
2.9.a	February consecutive launch opportunities	$W^* = 65$ m/sec 339
2.9.b	February launch opportunities	$W^* = 65$ m/sec 340
2.10.a	February consecutive launch opportunities	$W^* = 70$ m/sec 341
2.10.b	February launch opportunities	$W^* = 70$ m/sec 342
2.11.a	February consecutive launch opportunities	$W^* = 75$ m/sec 343
2.11.b	February launch opportunities	$W^* = 75$ m/sec 344

Tables

Part II:  $P(W \geq W^*)$

		Page
2.12.a	February consecutive launch opportunities	$W^* = 80$ m/sec 345
2.12.b	February launch opportunities	$W^* = 80$ m/sec 346
2.13.a	February consecutive launch opportunities	$W^* = 85$ m/sec 347
2.13.b	February launch opportunities	$W^* = 85$ m/sec 348
2.14.a	February consecutive launch opportunities	$W^* = 90$ m/sec 349
2.14.b	February launch opportunities	$W^* = 90$ m/sec 350
3.1.a	March consecutive launch opportunities	$W^* = 25$ m/sec 351
3.1.b	March launch opportunities	$W^* = 25$ m/sec 352
3.2.a	March consecutive launch opportunities	$W^* = 30$ m/sec 353
3.2.b	March launch opportunities	$W^* = 30$ m/sec 354
3.3.a	March consecutive launch opportunities	$W^* = 35$ m/sec 355
3.3.b	March launch opportunities	$W^* = 35$ m/sec 356
3.4.a	March consecutive launch opportunities	$W^* = 40$ m/sec 357
3.4.b	March launch opportunities	$W^* = 40$ m/sec 358
3.5.a	March consecutive launch opportunities	$W^* = 45$ m/sec 359
3.5.b	March launch opportunities	$W^* = 45$ m/sec 360
3.6.a	March consecutive launch opportunities	$W^* = 50$ m/sec 361
3.6.b	March launch opportunities	$W^* = 50$ m/sec 362
3.7.a	March consecutive launch opportunities	$W^* = 55$ m/sec 363
3.7.b	March launch opportunities	$W^* = 55$ m/sec 364
3.8.a	March consecutive launch opportunities	$W^* = 60$ m/sec 365
3.8.b	March launch opportunities	$W^* = 60$ m/sec 366
3.9.a	March consecutive launch opportunities	$W^* = 65$ m/sec 367
3.9.b	March launch opportunities	$W^* = 65$ m/sec 368
		285

Tables

Part II: P(1, 2, 3, 4, 5, 6)

		Page
3.10.a	March consecutive launch opportunities	W* = 70 m/sec 369
3.10.b	March launch opportunities	W* = 70 m/sec 370
3.11.a	March consecutive launch opportunities	W* = 75 m/sec 371
3.11.b	March launch opportunities	W* = 75 m/sec 372
3.12.a	March consecutive launch opportunities	W* = 80 m/sec 373
3.12.b	March launch opportunities	W* = 80 m/sec 374
3.13.a	March consecutive launch opportunities	W* = 85 m/sec 375
3.13.b	March launch opportunities	W* = 85 m/sec 376
3.14.a	March consecutive launch opportunities	W* = 90 m/sec 377
3.14.b	March launch opportunities	W* = 90 m/sec 378
3.15.a	March consecutive launch opportunities	W* = 95 m/sec 379
3.15.b	March launch opportunities	W* = 95 m/sec 380
4.1.a	April consecutive launch opportunities	W* = 15 m/sec 381
4.1.b	April launch opportunities	W* = 15 m/sec 382
4.2.a	April consecutive launch opportunities	W* = 20 m/sec 383
4.2.b	April launch opportunities	W* = 20 m/sec 384
4.3.a	April consecutive launch opportunities	W* = 25 m/sec 385
4.3.b	April launch opportunities	W* = 25 m/sec 386
4.4.a	April consecutive launch opportunities	W* = 30 m/sec 387
4.4.b	April launch opportunities	W* = 30 m/sec 388
4.5.a	April consecutive launch opportunities	W* = 35 m/sec 389
4.5.b	April launch opportunities	W* = 35 m/sec 390
4.6.a	April consecutive launch opportunities	W* = 40 m/sec 391
4.6.b	April launch opportunities	W* = 40 m/sec 392



Tables

Part II:  $P(W \geq W^*)$

		Page
4.7.a	April consecutive launch opportunities	$W^* = 45$ m/sec 393
4.7.b	April launch opportunities	$W^* = 45$ m/sec 394
4.8.a	April consecutive launch opportunities	$W^* = 50$ m/sec 395
4.8.b	April launch opportunities	$W^* = 50$ m/sec 396
4.9.a	April consecutive launch opportunities	$W^* = 55$ m/sec 397
4.9.b	April launch opportunities	$W^* = 55$ m/sec 398
4.10.a	April consecutive launch opportunities	$W^* = 60$ m/sec 399
4.10.b	April launch opportunities	$W^* = 60$ m/sec 400
4.11.a	April consecutive launch opportunities	$W^* = 65$ m/sec 401
4.11.b	April launch opportunities	$W^* = 65$ m/sec 402
4.12.a	April consecutive launch opportunities	$W^* = 70$ m/sec 403
4.12.b	April launch opportunities	$W^* = 70$ m/sec 404
4.13.a	April consecutive launch opportunities	$W^* = 75$ m/sec 405
4.13.b	April launch opportunities	$W^* = 75$ m/sec 406
4.14.a	April consecutive launch opportunities	$W^* = 80$ m/sec 407
4.14.b	April launch opportunities	$W^* = 80$ m/sec 408
5.1.a	May consecutive launch opportunities	$W^* = 10$ m/sec 409
5.1.b	May launch opportunities	$W^* = 10$ m/sec 410
5.2.a	May consecutive launch opportunities	$W^* = 15$ m/sec 411
5.2.b	May launch opportunities	$W^* = 15$ m/sec 412
5.3.a	May consecutive launch opportunities	$W^* = 20$ m/sec 413
5.3.b	May launch opportunities	$W^* = 20$ m/sec 414
5.4.a	May consecutive launch opportunities	$W^* = 25$ m/sec 415
5.4.b	May launch opportunities	$W^* = 25$ m/sec 416

TABLES

PART II:  $P(W \geq W^*)$

			<u>Page</u>
5.5.a	May consecutive launch opportunities	$W^* = 30$ m/sec	417
5.5.b	May launch opportunities	$W^* = 30$ m/sec	418
5.6.a	May consecutive launch opportunities	$W^* = 35$ m/sec	419
5.6.b	May launch opportunities	$W^* = 35$ m/sec	420
5.7.a	May consecutive launch opportunities	$W^* = 40$ m/sec	421
5.7.b	May launch opportunities	$W^* = 40$ m/sec	422
5.8.a	May consecutive launch opportunities	$W^* = 45$ m/sec	423
5.8.b	May launch opportunities	$W^* = 45$ m/sec	424
5.9.a	May consecutive launch opportunities	$W^* = 50$ m/sec	425
5.9.b	May launch opportunities	$W^* = 50$ m/sec	426
5.10.a	May consecutive launch opportunities	$W^* = 55$ m/sec	427
5.10.b	May launch opportunities	$W^* = 55$ m/sec	428
6.1.a	June consecutive launch opportunities	$W^* = 10$ m/sec	429
6.1.b	June launch opportunities	$W^* = 10$ m/sec	430
6.2.a	June consecutive launch opportunities	$W^* = 15$ m/sec	431
6.2.b	June launch opportunities	$W^* = 15$ m/sec	432
6.3.a	June consecutive launch opportunities	$W^* = 20$ m/sec	433
6.3.b	June launch opportunities	$W^* = 20$ m/sec	434
6.4.a	June consecutive launch opportunities	$W^* = 25$ m/sec	435
6.4.b	June launch opportunities	$W^* = 25$ m/sec	436
6.5.a	June consecutive launch opportunities	$W^* = 30$ m/sec	437
6.5.b	June launch opportunities	$W^* = 30$ m/sec	438

TABLES

Part II:  $P(W \geq W^*)$

			<u>Page</u>
6.6.a	June consecutive launch opportunities	$W^* = 35$ m/sec	439
6.6.b	June launch opportunities	$W^* = 35$ m/sec	440
6.7.a	June consecutive launch opportunities	$W^* = 40$ m/sec	441
6.7.b	June launch opportunities	$W^* = 40$ m/sec	442
7.1.a	July consecutive launch opportunities	$W^* = 10$ m/sec	443
7.1.b	July launch opportunities	$W^* = 10$ m/sec	444
7.2.a	July consecutive launch opportunities	$W^* = 15$ m/sec	445
7.2.b	July launch opportunities	$W^* = 15$ m/sec	446
7.3.a	July consecutive launch opportunities	$W^* = 20$ m/sec	447
7.3.b	July launch opportunities	$W^* = 20$ m/sec	448
7.4.a	July consecutive launch opportunities	$W^* = 25$ m/sec	449
7.4.b	July launch opportunities	$W^* = 25$ m/sec	450
7.5.a	July consecutive launch opportunities	$W^* = 30$ m/sec	451
7.5.b	July launch opportunities	$W^* = 30$ m/sec	452
8.1.a	August consecutive launch opportunities	$W^* = 10$ m/sec	453
8.1.b	August launch opportunities	$W^* = 10$ m/sec	454
8.2.a	August consecutive launch opportunities	$W^* = 15$ m/sec	455
8.2.b	August launch opportunities	$W^* = 15$ m/sec	456
8.3.a	August consecutive launch opportunities	$W^* = 20$ m/sec	457
8.3.b	August launch opportunities	$W^* = 20$ m/sec	458
8.4.a	August consecutive launch opportunities	$W^* = 25$ m/sec	459
8.4.b	August launch opportunities	$W^* = 25$ m/sec	460

TABLES

Part II:  $P(W \geq W^*)$

			<u>Page</u>
8.5.a	August consecutive launch opportunities	$W^* = 30$ m/sec	461
8.5.b	August launch opportunities	$W^* = 30$ m/sec	462
9.1.a	September consecutive launch opportunities	$W^* = 10$ m/sec	463
9.1.b	September launch opportunities	$W^* = 10$ m/sec	464
9.2.a	September consecutive launch opportunities	$W^* = 15$ m/sec	465
9.2.b	September launch opportunities	$W^* = 15$ m/sec	466
9.3.a	September consecutive launch opportunities	$W^* = 20$ m/sec	467
9.3.b	September launch opportunities	$W^* = 20$ m/sec	468
9.4.a	September consecutive launch opportunities	$W^* = 25$ m/sec	469
9.4.b	September launch opportunities	$W^* = 25$ m/sec	470
9.5.a	September consecutive launch opportunities	$W^* = 30$ m/sec	471
9.5.b	September launch opportunities	$W^* = 30$ m/sec	472
9.6.a	September consecutive launch opportunities	$W^* = 35$ m/sec	473
9.6.b	September launch opportunities	$W^* = 35$ m/sec	474
9.7.a	September consecutive launch opportunities	$W^* = 40$ m/sec	475
9.7.b	September launch opportunities	$W^* = 40$ m/sec	476
9.8.a	September consecutive launch opportunities	$W^* = 45$ m/sec	477
9.8.b	September launch opportunities	$W^* = 45$ m/sec	478
10.1.a	October consecutive launch opportunities	$W^* = 10$ m/sec	479
10.1.b	October launch opportunities	$W^* = 10$ m/sec	480
10.2.a	October consecutive launch opportunities	$W^* = 15$ m/sec	481
10.2.b	October launch opportunities	$W^* = 15$ m/sec	482

TABLES

Part II:  $P(W \geq W^*)$

		<u>Page</u>
10.3.a	October consecutive launch opportunities	$W^* = 20$ m/sec 483
10.3.b	October launch opportunities	$W^* = 20$ m/sec 484
10.4.a	October consecutive launch opportunities	$W^* = 25$ m/sec 485
10.4.b	October launch opportunities	$W^* = 25$ m/sec 486
10.5.a	October consecutive launch opportunities	$W^* = 30$ m/sec 487
10.5.b	October launch opportunities	$W^* = 30$ m/sec 488
10.6.a	October consecutive launch opportunities	$W^* = 35$ m/sec 489
10.6.b	October launch opportunities	$W^* = 35$ m/sec 490
10.7.a	October consecutive launch opportunities	$W^* = 40$ m/sec 491
10.7.b	October launch opportunities	$W^* = 40$ m/sec 492
10.8.a	October consecutive launch opportunities	$W^* = 45$ m/sec 493
10.8.b	October launch opportunities	$W^* = 45$ m/sec 494
10.9.a	October consecutive launch opportunities	$W^* = 50$ m/sec 495
10.9.b	October launch opportunities	$W^* = 50$ m/sec 496
10.10.a	October consecutive launch opportunities	$W^* = 55$ m/sec 497
10.10.b	October launch opportunities	$W^* = 55$ m/sec 498
10.11.a	October consecutive launch opportunities	$W^* = 60$ m/sec 499
10.11.b	October launch opportunities	$W^* = 60$ m/sec 500
10.12.a	October consecutive launch opportunities	$W^* = 65$ m/sec 501
10.12.b	October launch opportunities	$W^* = 65$ m/sec 502
11.1.a	November consecutive launch opportunities	$W^* = 15$ m/sec 503
11.1.b	November launch opportunities	$W^* = 15$ m/sec 504

TABLES  
Part II:  $P(W \geq W^*)$

		<u>Page</u>
11.2.a November consecutive launch opportunities	$W^* = 20$ m/sec	505
11.2.b November launch opportunities	$W^* = 20$ m/sec	506
11.3.a November consecutive launch opportunities	$W^* = 25$ m/sec	507
11.3.b November launch opportunities	$W^* = 25$ m/sec	508
11.4.a November consecutive launch opportunities	$W^* = 30$ m/sec	509
11.4.b November launch opportunities	$W^* = 30$ m/sec	510
11.5.a November consecutive launch opportunities	$W^* = 35$ m/sec	511
11.5.b November launch opportunities	$W^* = 35$ m/sec	512
11.6.a November consecutive launch opportunities	$W^* = 40$ m/sec	513
11.6.b November launch opportunities	$W^* = 40$ m/sec	514
11.7.a November consecutive launch opportunities	$W^* = 45$ m/sec	515
11.7.b November launch opportunities	$W^* = 45$ m/sec	516
11.8.a November consecutive launch opportunities	$W^* = 50$ m/sec	517
11.8.b November launch opportunities	$W^* = 50$ m/sec	518
11.9.a November consecutive launch opportunities	$W^* = 55$ m/sec	519
11.9.b November launch opportunities	$W^* = 55$ m/sec	520
11.10.a November consecutive launch opportunities	$W^* = 60$ m/sec	521
11.10.b November launch opportunities	$W^* = 60$ m/sec	522
11.11.a November consecutive launch opportunities	$W^* = 65$ m/sec	523
11.11.b November launch opportunities	$W^* = 65$ m/sec	524
11.12.a November consecutive launch opportunities	$W^* = 70$ m/sec	525
11.12.b November launch opportunities	$W^* = 70$ m/sec	526

TABLES

Part II:  $P(W \geq W^*)$

		<u>Page</u>
11.13.a	November consecutive launch opportunities	$W^* = 75$ m/sec 527
11.13.b	November launch opportunities	$W^* = 75$ m/sec 528
11.14.a	November consecutive launch opportunities	$W^* = 80$ m/sec 529
11.14.b	November launch opportunities	$W^* = 80$ m/sec 530
12.1.a	December consecutive launch opportunities	$W^* = 20$ m/sec 531
12.1.b	December launch opportunities	$W^* = 20$ m/sec 532
12.2.a	December consecutive launch opportunities	$W^* = 25$ m/sec 533
12.2.b	December launch opportunities	$W^* = 25$ m/sec 534
12.3.a	December consecutive launch opportunities	$W^* = 30$ m/sec 535
12.3.b	December launch opportunities	$W^* = 30$ m/sec 536
12.4.a	December consecutive launch opportunities	$W^* = 35$ m/sec 537
12.4.b	December launch opportunities	$W^* = 35$ m/sec 538
12.5.a	December consecutive launch opportunities	$W^* = 40$ m/sec 539
12.5.b	December launch opportunities	$W^* = 40$ m/sec 540
12.6.a	December consecutive launch opportunities	$W^* = 45$ m/sec 541
12.6.b	December launch opportunities	$W^* = 45$ m/sec 542
12.7.a	December consecutive launch opportunities	$W^* = 50$ m/sec 543
12.7.b	December launch opportunities	$W^* = 50$ m/sec 544
12.8.a	December consecutive launch opportunities	$W^* = 55$ m/sec 545
12.8.b	December launch opportunities	$W^* = 55$ m/sec 546

TABLES

Part II:  $P(W \cong W^*)$

		<u>Page</u>
12.9.a	December consecutive launch opportunities	$W^* = 60$ m/sec 547
12.9.b	December launch opportunities	$W^* = 60$ m/sec 548
12.10.a	December consecutive launch opportunities	$W^* = 65$ m/sec 549
12.10.b	December launch opportunities	$W^* = 65$ m/sec 550
12.11.a	December consecutive launch opportunities	$W^* = 70$ m/sec 551
12.11.b	December launch opportunities	$W^* = 70$ m/sec 552
12.12.a	December consecutive launch opportunities	$W^* = 75$ m/sec 553
12.12.b	December launch opportunities	$W^* = 75$ m/sec 554
12.13.a	December consecutive launch opportunities	$W^* = 80$ m/sec 555
12.13.b	December launch opportunities	$W^* = 80$ m/sec 556



CAPE KENNEDY - FLORIDA JANUARY

SPEEDS GREATER THAN OR EQUAL TO 025 MPS

PC ( I CONSECUTIVE SUCCESSES IN J PERIODS )

J	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	
1	.980																				
2	.988	.970																			
3	.994	.978	.960																		
4	.996	.986	.966	.950																	
5	.996	.992	.972	.956	.940																
6	.996	.994	.978	.962	.946	.929															
7	.996	.994	.982	.968	.952	.935	.917														
8	.996	.994	.982	.974	.958	.942	.921	.907													
9	.996	.994	.982	.978	.964	.948	.925	.911	.897												
10	.996	.994	.982	.980	.970	.954	.929	.915	.901	.887											
11	.996	.994	.982	.980	.974	.960	.933	.919	.905	.891	.877										
12	.996	.994	.982	.980	.974	.966	.938	.923	.909	.895	.881	.867									
13	.996	.994	.982	.980	.974	.970	.942	.927	.913	.899	.885	.871	.857								
14	.996	.994	.982	.980	.974	.970	.946	.931	.917	.903	.889	.875	.861	.847							
15	.996	.994	.982	.980	.974	.970	.948	.935	.921	.907	.893	.879	.865	.851	.837						
16	.998	.994	.982	.980	.976	.970	.948	.940	.925	.911	.897	.883	.869	.855	.841	.827					
17	1.00	.996	.982	.980	.978	.972	.948	.942	.929	.915	.901	.887	.873	.859	.845	.831	.817				
18	1.00	.998	.984	.980	.978	.974	.950	.942	.933	.919	.905	.891	.877	.863	.849	.835	.821	.806			
19	1.00	1.00	.986	.982	.978	.976	.952	.944	.935	.923	.909	.895	.881	.867	.853	.839	.825	.810	.796		
20	1.00	1.00	.988	.984	.978	.976	.954	.946	.938	.927	.913	.899	.885	.871	.857	.843	.829	.815	.800	.788	
21	1.00	1.00	.990	.986	.978	.976	.956	.948	.940	.931	.917	.903	.889	.875	.861	.847	.833	.819	.804	.792	
22	1.00	1.00	.992	.988	.978	.976	.956	.950	.942	.933	.923	.907	.893	.879	.865	.851	.837	.823	.808	.796	
23	1.00	1.00	.994	.990	.978	.976	.956	.952	.944	.935	.927	.913	.897	.883	.869	.855	.841	.827	.813	.800	
24	1.00	1.00	.996	.992	.978	.976	.956	.952	.946	.938	.929	.919	.903	.887	.873	.859	.845	.831	.817	.804	
25	1.00	1.00	.998	.994	.980	.976	.956	.952	.948	.940	.931	.923	.909	.893	.877	.863	.849	.835	.821	.808	
26	1.00	1.00	1.00	.996	.982	.978	.958	.952	.948	.942	.933	.925	.915	.899	.883	.867	.853	.839	.825	.813	
27	1.00	1.00	1.00	.998	.984	.980	.962	.954	.948	.944	.935	.927	.919	.905	.889	.873	.857	.843	.829	.817	
28	1.00	1.00	1.00	1.00	.986	.982	.966	.958	.950	.944	.938	.929	.921	.911	.895	.879	.863	.847	.833	.821	
29	1.00	1.00	1.00	1.00	.988	.984	.970	.962	.954	.946	.940	.931	.923	.915	.901	.885	.869	.853	.837	.825	
30	1.00	1.00	1.00	1.00	.990	.986	.974	.966	.958	.950	.942	.933	.925	.917	.907	.891	.875	.859	.843	.829	
31	1.00	1.00	1.00	1.00	.992	.988	.978	.970	.962	.954	.946	.938	.927	.919	.911	.897	.881	.865	.849	.835	
32	1.00	1.00	1.00	1.00	.994	.990	.982	.974	.966	.958	.950	.942	.931	.921	.913	.903	.887	.871	.855	.841	
33	1.00	1.00	1.00	1.00	.996	.992	.986	.978	.970	.962	.954	.946	.938	.925	.915	.907	.893	.877	.861	.847	
34	1.00	1.00	1.00	1.00	.998	.994	.990	.982	.974	.966	.958	.950	.942	.931	.919	.909	.899	.883	.867	.853	
35	1.00	1.00	1.00	1.00	1.00	.996	.992	.986	.978	.970	.962	.954	.946	.938	.925	.913	.903	.889	.873	.859	
36	1.00	1.00	1.00	1.00	1.00	.998	.994	.990	.982	.974	.966	.958	.950	.942	.931	.919	.905	.895	.879	.865	
37	1.00	1.00	1.00	1.00	1.00	1.00	.996	.992	.986	.978	.970	.962	.954	.946	.938	.925	.909	.899	.885	.871	
38	1.00	1.00	1.00	1.00	1.00	1.00	.998	.994	.990	.982	.974	.966	.958	.950	.942	.931	.913	.903	.891	.877	
39	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.996	.992	.986	.978	.970	.962	.954	.946	.938	.917	.907	.897	.883	
40	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.998	.994	.990	.982	.974	.966	.958	.950	.942	.921	.911	.901	.891	

TOTAL OBSERVATIONS 496

TABLE 1. 1.a.  $P(W \geq W^*)$  I CONSECUTIVE LAUNCH OPPORTUNITIES IN J PERIODS ( $W^* = 25$  M/SEC).

BASED ON MAXIMUM WIND SPEEDS IN THE 10-15 KM LAYER OVER CAPE KENNEDY, FLORIDA.

PERIOD OF RECORD JANUARY 1956 - DECEMBER 1963.

CAPE KENNEDY . FLORIDA JANUARY  
SPEEDS GREATER THAN OR EQUAL TO 025 MPS

P ( I SUCCESSES IN J PERIODS )

	I																			
J	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
1	.980																			
2	.988	.970																		
3	.994	.980	.960																	
4	.996	.990	.970	.950																
5	.996	.994	.982	.964	.940															
6	.996	.994	.986	.980	.956	.929														
7	.996	.994	.986	.984	.978	.948	.917													
8	.996	.994	.986	.984	.982	.976	.938	.907												
9	.996	.994	.986	.984	.982	.980	.972	.929	.897											
10	.996	.994	.986	.984	.982	.980	.978	.968	.921	.887										
11	.996	.994	.986	.984	.982	.980	.978	.976	.962	.913	.877									
12	.996	.994	.986	.984	.982	.980	.978	.976	.974	.956	.903	.867								
13	.996	.994	.986	.984	.982	.980	.978	.976	.974	.972	.946	.895	.857							
14	.996	.994	.986	.984	.982	.980	.978	.976	.974	.972	.966	.940	.887	.847						
15	.996	.994	.986	.984	.982	.980	.978	.976	.974	.972	.968	.962	.933	.879	.837					
16	.998	.994	.986	.984	.982	.980	.978	.976	.974	.972	.970	.964	.956	.927	.871	.827				
17	1.00	.996	.986	.984	.982	.980	.978	.976	.974	.972	.970	.968	.958	.952	.921	.863	.817			
18	1.00	1.00	.988	.984	.982	.980	.978	.976	.974	.972	.970	.968	.964	.952	.948	.915	.855	.806		
19	1.00	1.00	.994	.986	.982	.980	.978	.976	.974	.972	.970	.968	.966	.956	.948	.944	.909	.847	.796	
20	1.00	1.00	.996	.992	.982	.980	.978	.976	.974	.972	.970	.968	.966	.960	.952	.944	.940	.903	.839	.788
21	1.00	1.00	.998	.994	.988	.980	.978	.976	.974	.972	.970	.968	.966	.962	.956	.948	.940	.935	.897	.833
22	1.00	1.00	1.00	.996	.992	.984	.978	.976	.974	.972	.970	.968	.966	.964	.958	.952	.944	.935	.931	.891
23	1.00	1.00	1.00	1.00	.994	.990	.980	.976	.974	.972	.970	.968	.966	.964	.962	.954	.948	.940	.931	.927
24	1.00	1.00	1.00	1.00	1.00	.992	.986	.978	.974	.972	.970	.968	.966	.964	.962	.960	.950	.944	.935	.927
25	1.00	1.00	1.00	1.00	1.00	1.00	.988	.984	.976	.972	.970	.968	.966	.964	.962	.960	.958	.946	.940	.931
26	1.00	1.00	1.00	1.00	1.00	1.00	.998	.986	.982	.974	.970	.968	.966	.964	.962	.960	.958	.956	.942	.935
27	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.996	.984	.980	.972	.968	.966	.964	.962	.960	.958	.956	.954	.938
28	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.994	.982	.978	.970	.966	.964	.962	.960	.958	.956	.954	.952
29	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.992	.980	.976	.968	.964	.962	.960	.958	.956	.954	.952
30	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.990	.978	.974	.966	.962	.960	.958	.956	.954	.952
31	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.988	.976	.972	.964	.960	.958	.956	.954	.952
32	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.986	.974	.970	.962	.958	.956	.954	.952
33	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.984	.972	.968	.960	.956	.954	.952
34	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.982	.970	.966	.958	.954	.952
35	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.980	.968	.964	.956	.952
36	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.978	.966	.962	.954
37	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.976	.964	.960
38	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.974	.962
39	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.972
40	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00

TOTAL OBSERVATIONS 496

TABLE 1. 1.b. P(W ≥ W\*) I LAUNCH OPPORTUNITIES IN J PERIODS (W\* = 25 M/SEC).  
BASED ON MAXIMUM WIND SPEEDS IN THE 10-15 KM LAYER OVER CAPE KENNEDY, FLORIDA.  
PERIOD OF RECORD JANUARY 1956 - DECEMBER 1963.

CAPF KENNEDY, FLORIDA JANUARY  
SPEEDS GREATER THAN OR EQUAL TO 030 MPS

PC ( I CONSECUTIVE SUCCESSES IN J PERIODS )

	I																			
J	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
1	.938																			
2	.964	.911																		
3	.976	.927	.893																	
4	.978	.942	.907	.875																
5	.980	.952	.919	.887	.859															
6	.982	.958	.931	.897	.871	.843														
7	.982	.954	.940	.907	.881	.855	.829													
8	.982	.968	.944	.917	.891	.865	.841	.815												
9	.982	.970	.948	.923	.901	.875	.851	.827	.800											
10	.982	.972	.952	.925	.911	.885	.861	.837	.813	.786										
11	.982	.974	.954	.927	.917	.895	.871	.847	.823	.798	.774									
12	.982	.976	.956	.929	.919	.905	.881	.857	.833	.808	.784	.764								
13	.982	.978	.958	.931	.921	.911	.891	.867	.843	.819	.792	.774	.754							
14	.982	.980	.960	.933	.923	.913	.899	.877	.853	.829	.800	.782	.764	.744						
15	.982	.980	.962	.935	.925	.915	.905	.885	.863	.839	.808	.790	.772	.754	.734					
16	.982	.980	.964	.938	.927	.917	.907	.893	.871	.849	.817	.798	.780	.762	.744	.724				
17	.984	.980	.964	.940	.929	.919	.909	.899	.879	.857	.825	.806	.788	.770	.752	.734	.714			
18	.986	.982	.964	.944	.931	.921	.911	.901	.887	.865	.831	.815	.796	.778	.760	.742	.724	.706		
19	.988	.984	.964	.946	.935	.923	.913	.903	.893	.873	.837	.821	.804	.786	.768	.750	.732	.716	.698	
20	.990	.986	.964	.946	.940	.927	.915	.905	.895	.881	.843	.827	.810	.794	.776	.758	.740	.724	.708	.690
21	.992	.988	.964	.946	.942	.931	.919	.907	.897	.887	.849	.833	.817	.800	.784	.766	.748	.732	.716	.698
22	.994	.990	.964	.946	.942	.935	.923	.911	.899	.889	.853	.839	.823	.806	.790	.774	.756	.740	.724	.704
23	.996	.992	.964	.946	.942	.938	.927	.915	.903	.891	.857	.843	.829	.813	.796	.780	.764	.748	.732	.710
24	.998	.994	.966	.948	.942	.938	.931	.919	.907	.895	.861	.847	.833	.819	.802	.786	.770	.756	.740	.716
25	1.00	.996	.968	.952	.944	.938	.933	.923	.911	.899	.867	.851	.837	.823	.808	.792	.776	.762	.748	.722
26	1.00	.998	.970	.956	.948	.940	.933	.927	.915	.903	.873	.857	.841	.827	.813	.798	.782	.768	.754	.728
27	1.00	1.00	.972	.960	.952	.944	.935	.929	.919	.907	.879	.863	.847	.831	.817	.802	.788	.774	.760	.732
28	1.00	1.00	.974	.964	.956	.948	.940	.931	.923	.911	.885	.869	.853	.837	.821	.806	.792	.780	.766	.736
29	1.00	1.00	.976	.968	.960	.952	.944	.935	.927	.915	.891	.875	.859	.843	.827	.810	.796	.784	.772	.740
30	1.00	1.00	.978	.972	.964	.956	.948	.940	.931	.921	.897	.881	.865	.849	.833	.817	.800	.788	.776	.744
31	1.00	1.00	.980	.976	.968	.960	.952	.944	.935	.927	.905	.887	.871	.855	.839	.823	.806	.792	.780	.746
32	1.00	1.00	.982	.978	.972	.964	.956	.948	.940	.931	.915	.895	.877	.861	.845	.829	.813	.798	.784	.748
33	1.00	1.00	.984	.980	.976	.968	.960	.952	.944	.935	.923	.905	.885	.867	.851	.835	.819	.804	.790	.750
34	1.00	1.00	.986	.982	.978	.972	.964	.956	.948	.940	.929	.915	.895	.875	.857	.841	.825	.810	.796	.754
35	1.00	1.00	.988	.984	.980	.976	.968	.960	.952	.944	.935	.923	.905	.885	.865	.847	.831	.817	.802	.758
36	1.00	1.00	.990	.986	.982	.978	.972	.964	.956	.948	.940	.929	.915	.895	.875	.853	.837	.823	.808	.762
37	1.00	1.00	.992	.988	.984	.980	.976	.968	.960	.952	.944	.935	.923	.905	.885	.861	.843	.829	.815	.766
38	1.00	1.00	.994	.990	.986	.982	.978	.972	.964	.956	.948	.940	.929	.915	.895	.869	.851	.835	.821	.770
39	1.00	1.00	.996	.992	.988	.984	.980	.976	.968	.960	.952	.944	.935	.923	.905	.877	.859	.843	.827	.774
40	1.00	1.00	.998	.994	.990	.986	.982	.978	.972	.964	.956	.948	.940	.929	.915	.885	.867	.851	.835	.778

TOTAL OBSERVATIONS 496

TABLE 1. 2.a. P(W ≥ W\*) I CONSECUTIVE LAUNCH OPPORTUNITIES IN J PERIODS (W\* = 30 M/SEC).  
BASED ON MAXIMUM WIND SPEEDS IN THE 10-15 KM LAYER OVER CAPE KENNEDY, FLORIDA.

PERIOD OF RECORD JANUARY 1956 - DECEMBER 1963.

CAPE KENNEDY, FLORIDA JANUARY  
 SPEEDS GREATER THAN OR EQUAL TO 030 MPS

P ( I SUCCESSES IN J PERIODS )

	I																			
J	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
1	.938																			
2	.964	.911																		
3	.976	.940	.893																	
4	.978	.962	.921	.875																
5	.980	.968	.948	.903	.859															
6	.982	.972	.956	.929	.891	.843														
7	.982	.976	.960	.942	.917	.879	.829													
8	.982	.978	.966	.946	.929	.909	.867	.815												
9	.982	.980	.968	.956	.933	.921	.901	.855	.800											
10	.982	.980	.972	.960	.946	.925	.913	.893	.843	.786										
11	.982	.980	.974	.966	.950	.935	.917	.905	.885	.831	.774									
12	.982	.980	.976	.968	.958	.938	.927	.909	.897	.877	.817	.764								
13	.982	.980	.976	.972	.962	.946	.929	.919	.901	.889	.865	.806	.754							
14	.982	.980	.976	.972	.968	.952	.935	.921	.911	.893	.879	.855	.796	.744						
15	.982	.980	.976	.972	.968	.960	.944	.927	.913	.903	.885	.869	.845	.786	.734					
16	.982	.980	.976	.972	.968	.960	.954	.938	.919	.905	.895	.877	.859	.835	.776	.724				
17	.984	.980	.976	.972	.968	.960	.954	.950	.931	.911	.897	.887	.869	.849	.825	.766	.714			
18	.986	.982	.976	.972	.968	.960	.954	.950	.946	.925	.903	.889	.879	.861	.839	.815	.756	.706		
19	.988	.984	.976	.972	.968	.960	.954	.950	.946	.942	.919	.895	.881	.871	.853	.829	.804	.748	.698	
20	.990	.986	.976	.972	.968	.960	.954	.950	.946	.942	.938	.913	.887	.873	.863	.845	.819	.796	.740	.690
21	.992	.988	.976	.972	.968	.962	.954	.950	.946	.942	.938	.933	.907	.879	.865	.855	.837	.810	.788	.730
22	.994	.990	.978	.972	.968	.964	.956	.950	.946	.942	.938	.933	.929	.901	.871	.857	.847	.831	.802	.778
23	.996	.992	.980	.974	.968	.966	.958	.952	.946	.942	.938	.933	.929	.925	.895	.863	.849	.839	.825	.794
24	.998	.994	.982	.976	.970	.966	.962	.954	.948	.942	.938	.933	.929	.925	.921	.889	.855	.841	.833	.819
25	1.00	.996	.984	.978	.972	.968	.964	.958	.950	.944	.938	.933	.929	.925	.921	.917	.883	.847	.835	.827
26	1.00	1.00	.986	.980	.974	.970	.966	.962	.954	.946	.940	.933	.929	.925	.921	.917	.913	.877	.839	.829
27	1.00	1.00	.992	.982	.976	.972	.968	.964	.960	.950	.942	.935	.929	.925	.921	.917	.913	.909	.871	.833
28	1.00	1.00	.996	.986	.978	.974	.970	.966	.962	.958	.946	.938	.931	.925	.921	.917	.913	.909	.905	.867
29	1.00	1.00	.998	.992	.980	.976	.972	.968	.964	.960	.956	.942	.933	.927	.921	.917	.913	.909	.905	.901
30	1.00	1.00	1.00	.996	.984	.978	.974	.970	.966	.962	.958	.954	.938	.929	.923	.917	.913	.909	.905	.901
31	1.00	1.00	1.00	1.00	.990	.980	.976	.972	.968	.964	.960	.956	.952	.933	.925	.919	.913	.909	.905	.901
32	1.00	1.00	1.00	1.00	.998	.984	.978	.974	.970	.966	.962	.958	.954	.950	.929	.921	.915	.909	.905	.901
33	1.00	1.00	1.00	1.00	1.00	.994	.980	.976	.972	.968	.964	.960	.956	.952	.948	.925	.917	.911	.905	.901
34	1.00	1.00	1.00	1.00	1.00	.998	.990	.978	.974	.970	.966	.962	.958	.954	.950	.946	.921	.913	.907	.901
35	1.00	1.00	1.00	1.00	1.00	1.00	.994	.988	.976	.972	.968	.964	.960	.956	.952	.948	.944	.917	.909	.903
36	1.00	1.00	1.00	1.00	1.00	1.00	.998	.992	.986	.974	.970	.966	.962	.958	.954	.950	.946	.942	.913	.905
37	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.996	.990	.984	.972	.968	.964	.960	.956	.952	.948	.944	.940	.909
38	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.994	.988	.982	.970	.966	.962	.958	.954	.950	.946	.942	.938
39	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.992	.986	.980	.968	.964	.960	.956	.952	.948	.944	.940
40	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.990	.984	.978	.966	.962	.958	.954	.950	.946	.942

TOTAL OBSERVATIONS 496

TABLE 1. 2.b. P(W ≥ W\*) I LAUNCH OPPORTUNITIES IN J PERIODS (W\* = 30 M/SEC).  
 BASED ON MAXIMUM WIND SPEEDS IN THE 10-15 KM LAYER OVER CAPE KENNEDY, FLORIDA.  
 PERIOD OF RECORD JANUARY 1956 - DECEMBER 1963.

CAPE KENNEDY, FLORIDA JANUARY

SPEEDS GREATER THAN OR EQUAL TO 035 MPS

PC ( I CONSECUTIVE SUCCESSES IN J PERIODS )

J	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
1	.875																			
2	.913	.837																		
3	.940	.865	.806																	
4	.956	.893	.831	.778																
5	.964	.913	.855	.798	.756															
6	.972	.927	.879	.819	.776	.734														
7	.976	.935	.897	.839	.796	.754	.712													
8	.978	.944	.909	.859	.817	.774	.732	.692												
9	.980	.948	.919	.871	.837	.794	.752	.712	.671											
10	.980	.950	.929	.881	.855	.815	.772	.732	.688	.655										
11	.980	.952	.935	.889	.867	.833	.792	.752	.704	.671	.639									
12	.980	.954	.938	.897	.875	.851	.810	.772	.720	.688	.653	.625								
13	.980	.956	.940	.903	.883	.861	.829	.790	.736	.704	.667	.637	.613							
14	.980	.958	.942	.905	.891	.869	.845	.808	.750	.720	.681	.649	.625	.601						
15	.980	.960	.944	.907	.897	.877	.855	.825	.764	.734	.696	.661	.637	.613	.589					
16	.980	.962	.946	.909	.899	.885	.863	.841	.776	.748	.708	.673	.649	.625	.601	.577				
17	.982	.964	.948	.911	.901	.891	.871	.851	.788	.760	.720	.683	.661	.637	.613	.589	.565			
18	.984	.964	.952	.913	.903	.893	.879	.859	.800	.772	.730	.694	.671	.649	.625	.601	.577	.554		
19	.986	.964	.954	.917	.905	.895	.885	.867	.808	.784	.740	.702	.681	.659	.637	.613	.589	.567	.544	
20	.988	.964	.956	.921	.909	.897	.887	.875	.817	.796	.750	.710	.690	.669	.647	.625	.601	.579	.556	.534
21	.990	.964	.958	.925	.913	.901	.889	.879	.825	.804	.760	.718	.698	.677	.657	.635	.613	.591	.569	.544
22	.992	.964	.960	.929	.917	.905	.893	.881	.831	.813	.770	.726	.706	.685	.665	.645	.623	.603	.581	.554
23	.994	.966	.962	.933	.921	.909	.897	.885	.837	.819	.778	.734	.714	.694	.673	.653	.633	.613	.593	.565
24	.996	.968	.964	.938	.925	.913	.901	.889	.843	.825	.784	.742	.722	.702	.681	.661	.641	.623	.603	.575
25	.998	.970	.966	.944	.929	.917	.905	.893	.849	.833	.790	.746	.730	.710	.690	.669	.649	.631	.613	.583
26	1.00	.972	.968	.948	.935	.921	.909	.897	.855	.839	.798	.750	.736	.718	.698	.677	.657	.639	.621	.591
27	1.00	.974	.970	.952	.944	.927	.913	.901	.861	.845	.806	.756	.740	.724	.706	.685	.665	.647	.629	.597
28	1.00	.976	.972	.956	.948	.935	.919	.905	.867	.851	.813	.762	.746	.730	.712	.694	.673	.655	.637	.603
29	1.00	.978	.974	.960	.952	.944	.927	.911	.873	.857	.819	.768	.752	.736	.718	.700	.681	.663	.645	.609
30	1.00	.980	.976	.964	.956	.948	.935	.919	.881	.863	.825	.772	.758	.742	.726	.706	.688	.671	.653	.615
31	1.00	.982	.978	.968	.960	.952	.944	.927	.891	.871	.831	.776	.764	.748	.732	.714	.694	.677	.661	.621
32	1.00	.984	.980	.972	.964	.956	.948	.935	.901	.879	.839	.780	.768	.754	.738	.722	.702	.683	.667	.627
33	1.00	.986	.982	.976	.968	.960	.952	.944	.911	.887	.847	.786	.772	.760	.744	.728	.710	.692	.673	.631
34	1.00	.988	.984	.980	.972	.964	.956	.948	.921	.895	.855	.792	.778	.764	.750	.734	.718	.700	.681	.639
35	1.00	.990	.986	.982	.976	.968	.960	.952	.931	.903	.863	.798	.784	.770	.756	.740	.724	.708	.690	.641
36	1.00	.992	.988	.984	.980	.972	.964	.956	.938	.911	.871	.804	.790	.776	.762	.746	.730	.716	.698	.647
37	1.00	.994	.990	.986	.982	.976	.968	.960	.944	.919	.879	.810	.796	.782	.768	.752	.736	.722	.706	.653
38	1.00	.996	.992	.988	.984	.980	.972	.964	.950	.923	.887	.817	.802	.788	.774	.756	.742	.728	.714	.659
39	1.00	.998	.994	.990	.986	.982	.976	.968	.956	.927	.895	.823	.808	.794	.780	.760	.748	.734	.720	.665
40	1.00	1.00	.996	.992	.988	.984	.980	.972	.962	.931	.899	.829	.815	.800	.786	.764	.752	.740	.726	.671

TOTAL OBSERVATIONS 496

TABLE 1.3.a. P(W ≥ W\*) I CONSECUTIVE LAUNCH OPPORTUNITIES IN J PERIODS (W\* = 35 M/SEC).  
 BASED ON MAXIMUM WIND SPEEDS IN THE 10-15 KM LAYER OVER CAPE KENNEDY, FLORIDA.  
 PERIOD OF RECORD JANUARY 1956 - DECEMBER 1963.

CAPE KENNEDY . FLORIDA JANUARY

SPEFDS GREATER THAN OR EQUAL TO 035 MPS

P ( I SUCCESSES IN J PERIODS )

	I																			
J	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
1	.875																			
2	.913	.837																		
3	.940	.877	.806																	
4	.956	.905	.851	.778																
5	.964	.927	.883	.825	.756															
6	.972	.935	.909	.857	.808	.734														
7	.976	.946	.921	.883	.843	.792	.712													
8	.978	.950	.935	.897	.869	.829	.776	.692												
9	.980	.952	.944	.911	.887	.855	.815	.760	.671											
10	.980	.956	.948	.919	.903	.877	.841	.800	.740	.655										
11	.980	.958	.952	.925	.909	.895	.867	.827	.782	.726	.639									
12	.980	.960	.954	.931	.915	.899	.887	.857	.813	.764	.712	.625								
13	.980	.962	.956	.933	.923	.903	.891	.879	.847	.796	.748	.698	.613							
14	.980	.964	.958	.935	.925	.911	.895	.883	.871	.833	.782	.730	.688	.601						
15	.980	.966	.960	.938	.927	.913	.903	.887	.875	.861	.821	.764	.716	.677	.589					
16	.980	.966	.964	.940	.931	.915	.905	.895	.879	.867	.851	.802	.752	.702	.667	.577				
17	.982	.966	.964	.946	.933	.921	.907	.897	.887	.871	.859	.837	.788	.738	.690	.657	.565			
18	.984	.966	.964	.948	.940	.925	.913	.899	.889	.879	.863	.847	.827	.770	.728	.677	.647	.554		
19	.986	.966	.964	.950	.942	.933	.917	.905	.891	.881	.871	.853	.837	.810	.758	.718	.665	.639	.544	
20	.988	.966	.964	.950	.946	.935	.927	.909	.897	.883	.873	.863	.841	.821	.802	.746	.706	.657	.631	.534
21	.990	.966	.964	.952	.946	.942	.929	.921	.901	.889	.875	.865	.851	.823	.815	.794	.734	.696	.649	.621
22	.992	.968	.964	.954	.946	.942	.938	.923	.915	.893	.881	.867	.853	.833	.815	.808	.786	.722	.688	.639
23	.994	.970	.966	.956	.948	.942	.938	.933	.917	.909	.885	.873	.855	.837	.821	.808	.802	.778	.712	.677
24	.996	.972	.968	.960	.950	.944	.938	.933	.929	.911	.903	.877	.861	.841	.821	.815	.802	.796	.772	.702
25	.998	.974	.970	.964	.954	.946	.940	.933	.929	.925	.905	.897	.865	.849	.821	.815	.808	.798	.790	.764
26	1.00	.976	.972	.968	.958	.950	.942	.935	.929	.925	.921	.899	.887	.855	.825	.815	.808	.802	.794	.782
27	1.00	.980	.974	.970	.964	.954	.946	.938	.931	.925	.921	.917	.889	.881	.827	.819	.808	.802	.798	.790
28	1.00	.984	.976	.972	.968	.960	.950	.942	.933	.927	.921	.917	.909	.883	.853	.821	.813	.802	.798	.794
29	1.00	.988	.978	.974	.970	.966	.956	.946	.938	.929	.923	.917	.909	.905	.855	.847	.815	.806	.798	.794
30	1.00	.992	.980	.976	.972	.968	.964	.952	.942	.933	.925	.919	.909	.905	.879	.847	.843	.808	.802	.794
31	1.00	.996	.982	.978	.974	.970	.966	.962	.948	.938	.929	.921	.911	.905	.881	.869	.843	.839	.804	.798
32	1.00	.998	.986	.980	.976	.972	.968	.964	.960	.944	.933	.925	.913	.905	.883	.869	.863	.839	.835	.800
33	1.00	1.00	.988	.984	.978	.974	.970	.966	.962	.958	.940	.929	.917	.907	.885	.869	.865	.861	.835	.831
34	1.00	1.00	.992	.986	.982	.976	.972	.968	.964	.960	.956	.935	.921	.911	.887	.869	.865	.861	.857	.831
35	1.00	1.00	.994	.990	.984	.980	.974	.970	.966	.962	.958	.954	.927	.915	.891	.869	.865	.861	.857	.833
36	1.00	1.00	.996	.992	.988	.982	.978	.972	.968	.964	.960	.956	.948	.921	.895	.871	.865	.861	.857	.833
37	1.00	1.00	.998	.994	.990	.986	.980	.976	.970	.966	.962	.958	.950	.944	.901	.875	.865	.861	.857	.833
38	1.00	1.00	1.00	.996	.992	.988	.984	.978	.974	.968	.964	.960	.952	.948	.923	.881	.869	.861	.857	.833
39	1.00	1.00	1.00	1.00	.994	.990	.986	.982	.976	.972	.966	.962	.954	.950	.929	.903	.875	.863	.857	.833
40	1.00	1.00	1.00	1.00	1.00	.992	.988	.984	.980	.974	.970	.964	.956	.952	.933	.909	.897	.869	.839	.833

TOTAL OBSERVATIONS 496

TABLE 1. S.b. P(W ≥ W<sub>0</sub>) I LAUNCH OPPORTUNITIES IN J PERIODS (W<sub>0</sub> = 35 M/SEC).  
 BASED ON MAXIMUM WIND SPEEDS IN THE 10-15 KM LAYER OVER CAPE KENNEDY, FLORIDA.

PERIOD OF RECORD JANUARY 1956 - DECEMBER 1963.

CAPF KENNEDY . FLORIDA JANLARY  
 SPEEDS GREATER THAN OR EQUAL TO 040 MPS

PC ( I CONSECUTIVE SUCCESSES IN J PERIODS )

J	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
1	.790																			
2	.845	.730																		
3	.873	.772	.681																	
4	.891	.815	.720	.639																
5	.907	.839	.758	.673	.601															
6	.921	.859	.796	.708	.629	.569														
7	.931	.875	.821	.742	.657	.597	.536													
8	.938	.885	.839	.778	.685	.625	.560	.510												
9	.944	.893	.853	.798	.716	.653	.585	.532	.486											
10	.950	.901	.865	.813	.746	.683	.609	.554	.504	.468										
11	.952	.907	.875	.825	.762	.714	.635	.577	.522	.484	.452									
12	.952	.911	.883	.835	.778	.742	.661	.601	.540	.500	.468	.435								
13	.952	.915	.889	.843	.792	.758	.685	.625	.560	.516	.484	.452	.419							
14	.952	.917	.893	.847	.804	.774	.710	.647	.581	.534	.500	.468	.433	.405						
15	.952	.919	.897	.851	.813	.788	.724	.669	.601	.552	.518	.484	.448	.417	.393					
16	.952	.921	.899	.855	.819	.798	.738	.692	.621	.571	.536	.502	.462	.429	.405	.381				
17	.952	.923	.901	.859	.825	.806	.748	.704	.641	.589	.554	.520	.478	.442	.417	.393	.369			
18	.952	.925	.903	.861	.829	.813	.756	.714	.661	.607	.573	.538	.494	.456	.429	.405	.381	.357		
19	.952	.927	.905	.863	.833	.819	.764	.722	.671	.625	.591	.556	.510	.470	.444	.417	.393	.369	.345	
20	.952	.929	.909	.865	.835	.823	.770	.728	.681	.641	.609	.575	.526	.484	.458	.431	.405	.381	.357	.331
21	.952	.931	.913	.867	.837	.827	.776	.734	.692	.651	.625	.593	.540	.498	.472	.446	.419	.393	.369	.343
22	.952	.933	.917	.869	.841	.829	.782	.740	.700	.661	.641	.609	.554	.510	.486	.460	.433	.407	.381	.355
23	.956	.933	.921	.871	.845	.833	.788	.746	.708	.671	.651	.625	.567	.522	.498	.474	.448	.421	.395	.367
24	.960	.938	.925	.873	.849	.837	.794	.752	.714	.679	.661	.641	.579	.532	.510	.486	.462	.435	.409	.381
25	.964	.942	.931	.875	.853	.841	.800	.760	.720	.685	.671	.651	.591	.542	.520	.498	.474	.450	.423	.395
26	.968	.946	.938	.881	.857	.845	.806	.766	.728	.692	.677	.661	.603	.552	.530	.508	.486	.462	.438	.409
27	.972	.950	.942	.887	.865	.849	.813	.772	.736	.700	.683	.669	.611	.563	.540	.518	.496	.474	.450	.423
28	.976	.954	.946	.893	.873	.857	.819	.778	.744	.708	.692	.675	.617	.573	.550	.528	.506	.484	.462	.435
29	.978	.958	.950	.897	.881	.865	.827	.784	.752	.716	.700	.683	.623	.579	.560	.538	.516	.494	.472	.448
30	.980	.962	.954	.901	.889	.873	.835	.792	.760	.724	.708	.692	.629	.585	.569	.548	.526	.504	.482	.458
31	.982	.964	.958	.905	.895	.881	.843	.800	.768	.732	.716	.700	.635	.593	.575	.556	.536	.514	.492	.468
32	.984	.966	.962	.909	.901	.889	.851	.808	.776	.740	.724	.708	.641	.599	.583	.565	.544	.524	.502	.478
33	.986	.968	.964	.913	.905	.895	.857	.817	.784	.748	.732	.716	.647	.605	.591	.573	.552	.532	.512	.488
34	.988	.970	.966	.917	.909	.901	.863	.825	.792	.756	.740	.724	.653	.611	.597	.581	.563	.540	.520	.498
35	.990	.972	.968	.919	.913	.905	.867	.833	.800	.764	.748	.732	.659	.617	.603	.589	.571	.550	.528	.506
36	.992	.974	.970	.921	.917	.909	.871	.841	.808	.772	.756	.740	.665	.623	.609	.595	.579	.560	.538	.514
37	.994	.976	.972	.923	.919	.913	.873	.847	.817	.780	.764	.748	.671	.629	.615	.601	.587	.569	.548	.524
38	.996	.978	.974	.925	.921	.917	.875	.851	.825	.788	.772	.756	.677	.635	.621	.607	.593	.577	.558	.534
39	.998	.980	.976	.927	.923	.919	.877	.855	.827	.796	.780	.764	.683	.641	.627	.613	.599	.585	.567	.544
40	1.00	.982	.978	.929	.925	.921	.879	.859	.829	.802	.788	.772	.690	.647	.633	.619	.605	.591	.575	.554

TOTAL OBSERVATIONS 496

TABLE 1. 4.a.  $P(N \geq W)$  I CONSECUTIVE LAUNCH OPPORTUNITIES IN J PERIODS ( $W = 40$  M/SEC).  
 BASED ON MAXIMUM WIND SPEEDS IN THE 10-15 KM LAYER OVER CAPE KENNEDY, FLORIDA.  
 PERIOD OF RECORD JANUARY 1956 - DECEMBER 1963.

CAPE KENNEDY, FLORIDA JANUARY  
 SPEEDS GREATER THAN OR EQUAL TO 040 MPS

P ( I SUCCESSES IN J PERIODS )

J	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
1	.790																			
2	.845	.730																		
3	.873	.798	.681																	
4	.891	.835	.762	.639																
5	.907	.861	.798	.732	.601															
6	.921	.877	.829	.772	.711	.560														
7	.931	.891	.849	.804	.744	.679	.536													
8	.938	.903	.867	.823	.782	.722	.653	.510												
9	.944	.911	.881	.845	.800	.764	.694	.631	.486											
10	.950	.915	.893	.861	.827	.782	.742	.667	.611	.468										
11	.952	.923	.899	.875	.843	.810	.760	.718	.643	.597	.452									
12	.952	.929	.909	.883	.855	.829	.788	.736	.696	.627	.585	.435								
13	.952	.931	.919	.893	.863	.841	.808	.762	.718	.670	.613	.573	.419							
14	.952	.933	.921	.909	.871	.849	.821	.784	.742	.706	.663	.601	.558	.405						
15	.952	.935	.923	.911	.889	.859	.827	.800	.766	.728	.692	.651	.587	.544	.393					
16	.952	.938	.925	.915	.893	.877	.837	.808	.782	.752	.712	.679	.639	.573	.532	.381				
17	.952	.940	.927	.917	.899	.879	.857	.823	.788	.770	.734	.698	.667	.627	.560	.522	.369			
18	.952	.942	.929	.919	.905	.883	.857	.847	.804	.776	.754	.718	.683	.657	.615	.550	.512	.357		
19	.952	.944	.931	.921	.909	.891	.857	.849	.833	.792	.742	.740	.702	.671	.647	.605	.540	.502	.345	
20	.952	.946	.933	.923	.913	.895	.863	.849	.839	.823	.780	.748	.726	.685	.661	.637	.597	.530	.492	.331
21	.952	.946	.938	.925	.915	.901	.867	.853	.841	.831	.813	.764	.734	.710	.673	.651	.627	.589	.520	.482
22	.952	.946	.938	.931	.917	.905	.873	.855	.847	.833	.823	.802	.750	.718	.698	.661	.641	.617	.581	.510
23	.956	.946	.938	.931	.925	.907	.879	.859	.849	.841	.825	.815	.798	.734	.706	.685	.649	.631	.607	.573
24	.960	.950	.938	.931	.927	.915	.881	.865	.853	.843	.835	.817	.806	.770	.722	.694	.673	.639	.621	.597
25	.964	.954	.941	.931	.927	.919	.889	.865	.861	.847	.837	.829	.808	.794	.756	.712	.681	.663	.629	.611
26	.968	.958	.946	.935	.927	.921	.893	.871	.861	.857	.841	.831	.823	.798	.784	.740	.702	.669	.655	.619
27	.972	.962	.950	.940	.931	.923	.895	.875	.865	.857	.853	.835	.825	.817	.788	.774	.724	.690	.661	.645
28	.976	.966	.954	.944	.935	.927	.899	.875	.871	.859	.853	.849	.829	.819	.810	.778	.764	.706	.681	.651
29	.978	.972	.958	.948	.940	.931	.903	.877	.871	.867	.853	.849	.845	.823	.813	.804	.770	.748	.694	.671
30	.980	.974	.966	.952	.944	.935	.907	.881	.873	.867	.861	.849	.845	.841	.817	.806	.800	.756	.738	.681
31	.982	.976	.968	.962	.948	.940	.911	.885	.875	.869	.863	.855	.845	.841	.837	.810	.802	.790	.748	.726
32	.984	.978	.970	.964	.960	.944	.915	.889	.875	.871	.865	.857	.851	.841	.837	.833	.806	.794	.784	.738
33	.986	.980	.972	.966	.962	.958	.919	.893	.877	.871	.867	.859	.853	.847	.837	.833	.831	.800	.788	.778
34	.988	.982	.974	.968	.964	.960	.935	.897	.879	.873	.867	.863	.853	.849	.843	.833	.831	.829	.794	.782
35	.990	.984	.976	.970	.966	.962	.938	.915	.881	.875	.869	.863	.857	.849	.845	.839	.831	.829	.825	.790
36	.992	.986	.978	.972	.968	.964	.940	.917	.899	.877	.871	.865	.859	.851	.845	.841	.835	.829	.827	.821
37	.994	.988	.980	.974	.970	.966	.942	.919	.903	.895	.873	.867	.859	.853	.847	.841	.837	.831	.827	.825
38	.996	.990	.982	.976	.972	.968	.944	.921	.907	.897	.891	.869	.859	.853	.849	.843	.837	.833	.827	.825
39	.998	.992	.984	.978	.974	.970	.946	.923	.911	.899	.893	.887	.859	.853	.849	.845	.839	.833	.829	.825
40	1.00	.994	.986	.980	.976	.972	.948	.925	.915	.901	.895	.889	.877	.853	.849	.845	.841	.835	.829	.825

TOTAL OBSERVATIONS 496

TABLE 1. 4.b. P(N ≥ W\*) I LAUNCH OPPORTUNITIES IN J PERIODS (W\* = 40 M/SEC).  
 BASED ON MAXIMUM WIND SPEEDS IN THE 10-15 KM LAYER OVER CAPE KENNEDY, FLORIDA.  
 PERIOD OF RECORD JANUARY 1956 - DECEMBER 1963.



CAPE KENNEDY, FLORIDA JANUARY  
SPEEDS GREATER THAN OR EQUAL TO 045 MPS

PC ( I CONSECUTIVE SUCCESSES IN J PERIODS )

	I																			
J	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
1	.657																			
2	.738	.573																		
3	.782	.633	.510																	
4	.808	.692	.560	.458																
5	.835	.722	.609	.496	.417															
6	.857	.746	.655	.532	.452	.385														
7	.873	.770	.681	.569	.484	.415	.357													
8	.887	.788	.702	.607	.516	.444	.381	.335												
9	.897	.804	.720	.631	.550	.472	.403	.357	.315											
10	.907	.817	.734	.653	.585	.502	.425	.377	.335	.296										
11	.915	.825	.748	.675	.607	.532	.450	.397	.353	.315	.282									
12	.921	.833	.762	.692	.629	.560	.474	.419	.371	.331	.300	.268								
13	.925	.837	.774	.708	.649	.581	.496	.442	.391	.347	.317	.284	.256							
14	.927	.841	.784	.720	.665	.599	.518	.462	.411	.365	.333	.298	.272	.244						
15	.927	.845	.790	.730	.681	.617	.532	.482	.429	.383	.341	.313	.276	.232						
16	.927	.849	.796	.740	.694	.633	.546	.500	.448	.399	.369	.329	.300	.274	.248	.220				
17	.927	.851	.802	.746	.704	.649	.560	.512	.464	.415	.385	.345	.317	.288	.262	.236	.208			
18	.927	.853	.808	.754	.714	.663	.575	.524	.480	.429	.401	.359	.333	.304	.276	.250	.222	.198		
19	.929	.855	.813	.762	.720	.675	.589	.536	.492	.444	.415	.373	.347	.321	.292	.264	.236	.212	.188	
20	.931	.859	.817	.770	.726	.688	.601	.548	.502	.458	.429	.385	.361	.335	.308	.278	.246	.224	.200	.179
21	.933	.863	.823	.776	.732	.694	.611	.560	.512	.466	.444	.397	.373	.349	.323	.292	.258	.236	.210	.190
22	.935	.867	.829	.784	.738	.700	.614	.562	.512	.474	.456	.409	.385	.361	.337	.304	.272	.248	.220	.198
23	.940	.871	.835	.790	.744	.706	.627	.577	.532	.482	.464	.421	.397	.373	.349	.317	.284	.260	.230	.206
24	.944	.877	.841	.796	.748	.714	.635	.587	.540	.490	.472	.433	.409	.385	.36	.327	.292	.270	.240	.214
25	.950	.885	.849	.802	.752	.720	.645	.599	.548	.496	.480	.442	.421	.397	.373	.337	.308	.280	.248	.222
26	.954	.891	.859	.810	.756	.726	.655	.605	.554	.502	.486	.450	.433	.409	.387	.357	.306	.288	.256	.228
27	.958	.895	.869	.821	.762	.732	.665	.615	.567	.508	.492	.456	.442	.421	.397	.357	.317	.296	.262	.234
28	.962	.899	.879	.831	.768	.740	.675	.625	.577	.514	.498	.462	.448	.433	.404	.367	.323	.304	.268	.238
29	.966	.903	.887	.841	.774	.749	.688	.635	.587	.524	.506	.468	.454	.440	.421	.377	.331	.313	.274	.242
30	.968	.907	.895	.851	.780	.756	.698	.647	.597	.537	.514	.476	.460	.444	.431	.387	.339	.321	.280	.246
31	.970	.911	.903	.861	.786	.764	.708	.659	.607	.540	.522	.484	.468	.452	.438	.395	.347	.329	.286	.250
32	.972	.913	.907	.871	.792	.772	.718	.669	.617	.544	.530	.492	.476	.460	.444	.403	.353	.337	.292	.254
33	.974	.915	.911	.881	.798	.780	.728	.679	.627	.554	.538	.500	.484	.468	.452	.407	.359	.343	.298	.258
34	.976	.917	.913	.889	.804	.788	.738	.690	.635	.565	.546	.508	.492	.476	.460	.413	.365	.349	.302	.262
35	.978	.919	.915	.897	.810	.796	.744	.700	.643	.573	.554	.516	.500	.484	.468	.419	.371	.355	.306	.264
36	.980	.921	.917	.901	.815	.802	.758	.710	.651	.579	.563	.524	.508	.492	.476	.425	.377	.363	.310	.266
37	.982	.923	.919	.905	.819	.808	.766	.720	.659	.587	.571	.532	.516	.500	.484	.431	.383	.369	.317	.268
38	.984	.925	.921	.907	.821	.813	.774	.730	.667	.595	.579	.540	.524	.508	.492	.438	.389	.375	.323	.272
39	.986	.927	.923	.909	.823	.817	.782	.740	.675	.601	.587	.550	.532	.516	.500	.444	.395	.381	.327	.276
40	.988	.929	.925	.911	.823	.819	.788	.750	.683	.607	.595	.560	.542	.524	.508	.450	.401	.387	.331	.280

TOTAL OBSERVATIONS 491

TABLE 1.  $P(W \geq W_0)$  : CONSECUTIVE LAUNCH OPPORTUNITIES IN J PERIODS ( $W_0 = 45$  M/SEC).  
BASED ON MAXIMUM WIND SPEEDS IN THE 10-15 KM LAYER OVER CAPE KENNEDY, FLORIDA.  
PERIOD OF RECORD JANUARY 1956 - DECEMBER 1963.

CAPE KENNEDY, FLORIDA JANUARY  
SPEEDS GREATER THAN OR EQUAL TO 045 MPS

P ( I SUCCESSES IN J PERIODS )

J	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
1	.657																			
2	.738	.573																		
3	.782	.667	.510																	
4	.808	.720	.617	.458																
5	.835	.746	.673	.573	.417															
6	.857	.774	.700	.633	.538	.385														
7	.873	.796	.734	.665	.595	.508	.357													
8	.887	.817	.748	.710	.627	.567	.476	.335												
9	.897	.837	.762	.726	.675	.599	.536	.452	.315											
10	.907	.849	.780	.744	.692	.649	.573	.510	.429	.296										
11	.915	.859	.794	.762	.712	.667	.623	.546	.488	.411	.282									
12	.921	.867	.806	.776	.730	.694	.643	.595	.526	.468	.395	.268								
13	.925	.877	.815	.790	.740	.714	.671	.617	.573	.512	.446	.379	.256							
14	.927	.887	.823	.802	.752	.722	.694	.645	.601	.554	.496	.421	.369	.244						
15	.927	.895	.833	.810	.766	.736	.702	.667	.631	.587	.538	.474	.403	.359	.232					
16	.927	.899	.845	.819	.776	.750	.714	.675	.655	.617	.573	.516	.458	.389	.349	.220				
17	.927	.903	.851	.831	.788	.760	.724	.688	.665	.643	.603	.552	.502	.438	.379	.339	.208			
18	.927	.907	.857	.835	.806	.770	.734	.696	.675	.655	.631	.585	.536	.484	.423	.369	.327	.198		
19	.929	.911	.863	.839	.813	.790	.744	.704	.685	.663	.645	.615	.571	.518	.468	.409	.361	.315	.188	
20	.931	.915	.869	.845	.819	.796	.764	.714	.694	.671	.653	.631	.601	.558	.498	.450	.399	.351	.300	.179
21	.933	.919	.875	.849	.827	.804	.770	.734	.704	.677	.661	.641	.615	.591	.542	.480	.435	.387	.339	.286
22	.935	.923	.881	.853	.833	.813	.780	.742	.722	.685	.667	.649	.627	.603	.581	.522	.464	.421	.375	.323
23	.940	.927	.887	.857	.830	.819	.790	.754	.730	.702	.673	.655	.635	.617	.591	.569	.504	.446	.405	.361
24	.946	.931	.893	.863	.845	.825	.798	.764	.742	.712	.688	.659	.643	.623	.607	.577	.558	.484	.427	.389
25	.950	.940	.901	.865	.853	.833	.806	.776	.750	.726	.696	.669	.647	.633	.613	.593	.567	.548	.464	.407
26	.954	.944	.911	.873	.857	.841	.819	.786	.762	.736	.708	.675	.653	.637	.623	.599	.583	.556	.536	.438
27	.958	.948	.917	.885	.865	.845	.829	.802	.770	.752	.716	.685	.659	.641	.627	.609	.589	.573	.544	.52
28	.962	.952	.921	.893	.875	.855	.835	.815	.784	.760	.734	.692	.669	.645	.631	.613	.599	.581	.560	.530
29	.966	.956	.925	.897	.883	.867	.847	.823	.796	.772	.742	.710	.677	.651	.635	.617	.605	.589	.571	.546
30	.968	.962	.929	.901	.885	.870	.857	.839	.806	.786	.752	.718	.698	.657	.639	.621	.609	.597	.579	.556
31	.970	.964	.938	.905	.889	.881	.873	.849	.823	.798	.768	.726	.704	.679	.643	.625	.613	.601	.587	.567
32	.972	.966	.940	.915	.893	.883	.877	.865	.835	.813	.782	.742	.710	.685	.665	.629	.617	.605	.591	.575
33	.974	.968	.942	.917	.905	.885	.879	.869	.853	.827	.796	.756	.724	.692	.671	.651	.621	.609	.597	.579
34	.976	.970	.944	.919	.907	.897	.881	.871	.857	.847	.815	.770	.736	.710	.677	.659	.641	.613	.601	.587
35	.978	.972	.946	.921	.909	.899	.895	.873	.857	.853	.839	.792	.746	.720	.696	.665	.651	.631	.605	.591
36	.980	.974	.948	.923	.911	.901	.895	.889	.857	.853	.849	.821	.746	.732	.704	.683	.657	.641	.623	.595
37	.982	.976	.950	.925	.913	.903	.895	.889	.873	.853	.849	.839	.792	.754	.716	.690	.675	.647	.633	.613
38	.984	.978	.952	.927	.915	.905	.895	.889	.873	.869	.849	.843	.813	.780	.740	.698	.681	.665	.639	.623
39	.986	.980	.954	.929	.917	.907	.895	.889	.873	.869	.865	.845	.821	.800	.770	.720	.688	.671	.657	.629
40	.988	.982	.956	.931	.919	.909	.897	.889	.873	.869	.865	.861	.827	.813	.786	.752	.706	.677	.643	.647

TOTAL OBSERVATIONS 496

TABLE 1. S. S. P(W ≥ W<sub>0</sub>) I LAUNCH OPPORTUNITIES IN J PERIODS (W<sub>0</sub> = 45 M/SEC).  
BASED ON MAXIMUM WIND SPEEDS IN THE 10-15 KM LAYER OVER CAPE KENNEDY, FLORIDA.  
PERIOD OF RECORD JANUARY 1954 - DECEMBER 1963.

CAPE KENNEDY , FLORIDA JA' JARY

SPEEDS GREATER THAN OR EQUAL TO 090 MPS

PC ( I CONSECUTIVE SUCCESSES IN J PERIODS )

		I																			
J		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
1	.504																				
2	.595	.415																			
3	.653	.484	.347																		
4	.594	.548	.393	.302																	
5	.722	.591	.435	.343	.264																
6	.744	.625	.478	.381	.296	.236															
7	.766	.655	.504	.419	.327	.264	.210														
8	.782	.681	.520	.460	.357	.294	.236	.188													
9	.798	.706	.536	.484	.387	.323	.262	.212	.167												
10	.808	.728	.548	.504	.417	.351	.288	.236	.185	.153											
11	.817	.748	.560	.522	.435	.379	.315	.260	.204	.169	.141										
12	.825	.764	.571	.538	.452	.407	.341	.284	.222	.185	.153	.133									
13	.833	.778	.579	.554	.468	.429	.367	.308	.240	.202	.165	.145	.125								
14	.839	.792	.587	.567	.484	.442	.393	.333	.258	.218	.177	.157	.137	.117							
15	.845	.804	.595	.577	.500	.458	.413	.357	.276	.234	.190	.169	.149	.127	.111						
16	.849	.810	.603	.585	.514	.474	.431	.381	.294	.250	.202	.181	.161	.137	.117	.109					
17	.851	.815	.611	.593	.524	.492	.450	.399	.313	.266	.214	.194	.173	.147	.123	.115	.107				
18	.853	.819	.615	.601	.534	.502	.470	.415	.331	.282	.226	.206	.185	.157	.129	.121	.113	.105			
19	.855	.821	.619	.609	.542	.512	.486	.433	.343	.298	.238	.218	.198	.167	.135	.127	.119	.111	.103		
20	.859	.823	.623	.613	.548	.522	.498	.448	.353	.315	.250	.230	.210	.177	.141	.133	.125	.117	.109	.101	
21	.863	.825	.627	.617	.554	.528	.510	.462	.361	.329	.262	.242	.222	.188	.147	.139	.131	.123	.115	.107	
22	.867	.827	.631	.621	.558	.534	.520	.474	.369	.339	.274	.254	.234	.198	.153	.145	.137	.129	.121	.113	
23	.873	.829	.635	.625	.563	.540	.526	.484	.377	.349	.284	.266	.246	.208	.159	.151	.143	.135	.127	.119	
24	.879	.835	.639	.629	.567	.546	.532	.492	.383	.359	.292	.276	.258	.218	.165	.157	.149	.141	.133	.125	
25	.887	.841	.647	.633	.571	.552	.538	.500	.389	.367	.300	.286	.268	.228	.171	.163	.155	.147	.139	.131	
26	.893	.849	.655	.641	.575	.558	.544	.508	.395	.375	.306	.294	.278	.236	.177	.169	.161	.153	.145	.137	
27	.899	.857	.665	.649	.583	.565	.550	.516	.401	.383	.313	.300	.288	.244	.183	.175	.167	.159	.151	.143	
28	.903	.865	.675	.657	.591	.573	.556	.524	.407	.391	.319	.306	.294	.252	.190	.181	.173	.165	.157	.149	
29	.907	.873	.685	.665	.599	.581	.565	.532	.413	.399	.325	.313	.300	.258	.196	.188	.179	.171	.163	.155	
30	.911	.879	.696	.673	.607	.587	.573	.542	.419	.407	.331	.319	.306	.264	.200	.194	.185	.177	.169	.161	
31	.915	.885	.706	.681	.615	.593	.581	.552	.427	.413	.337	.325	.313	.270	.204	.198	.192	.183	.175	.167	
32	.919	.891	.716	.690	.623	.599	.587	.563	.435	.421	.343	.331	.319	.276	.208	.202	.196	.190	.181	.173	
33	.921	.897	.726	.698	.631	.605	.593	.573	.444	.429	.351	.337	.325	.282	.212	.206	.200	.194	.188	.179	
34	.923	.903	.734	.706	.639	.611	.599	.581	.452	.438	.359	.345	.331	.288	.216	.210	.204	.198	.192	.185	
35	.925	.909	.742	.714	.647	.617	.605	.589	.460	.446	.367	.353	.339	.294	.220	.214	.208	.202	.196	.190	
36	.927	.915	.750	.720	.655	.623	.611	.597	.470	.454	.375	.361	.347	.302	.224	.218	.212	.206	.200	.194	
37	.929	.919	.758	.726	.663	.629	.617	.605	.480	.464	.383	.369	.355	.310	.230	.222	.216	.210	.204	.198	
38	.931	.923	.766	.732	.671	.635	.623	.611	.490	.474	.393	.377	.363	.319	.236	.228	.220	.214	.208	.202	
39	.933	.925	.774	.738	.679	.641	.629	.617	.500	.484	.403	.387	.371	.327	.242	.234	.226	.218	.212	.206	
40	.935	.927	.780	.744	.688	.647	.635	.623	.510	.494	.413	.397	.381	.335	.248	.240	.232	.224	.216	.210	

TOTAL OBSERVATIONS 496

TABLE 1. 6. a. P(W ≥ W\*) I CONSECUTIVE LAUNCH OPPORTUNITIES IN J PERIODS (W\* = 50 M/SEC).

BASED ON MAXIMUM WIND SPEEDS IN THE 10-15 KM LAYER OVER CAPE KENNEDY, FLORIDA.

PERIOD OF RECORD JANUARY 1956 - DECEMBER 1963.

CAPE KENNEDY, FLORIDA JANUARY  
SPEEDS GREATER THAN OR EQUAL TO 050 MPS

P ( I SUCCESSES IN J PERIODS )

	I																			
J	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
1	.504																			
2	.595	.415																		
3	.653	.512	.347																	
4	.694	.573	.440	.302																
5	.722	.621	.496	.401	.264															
6	.744	.659	.536	.460	.369	.236														
7	.766	.688	.577	.494	.423	.351	.210													
8	.782	.720	.601	.532	.450	.409	.331	.188												
9	.798	.742	.631	.550	.484	.435	.395	.310	.167											
10	.808	.764	.657	.575	.502	.470	.417	.381	.286	.153										
11	.817	.780	.685	.597	.520	.490	.452	.407	.359	.268	.141									
12	.825	.792	.712	.621	.532	.500	.476	.442	.389	.345	.246	.133								
13	.833	.802	.732	.649	.546	.518	.494	.466	.423	.379	.329	.226	.125							
14	.839	.813	.746	.675	.569	.530	.506	.480	.452	.411	.369	.308	.210	.117						
15	.845	.819	.760	.692	.601	.542	.518	.490	.468	.440	.401	.347	.298	.194	.111					
16	.849	.825	.768	.712	.617	.571	.528	.500	.480	.454	.431	.383	.333	.288	.175	.109				
17	.851	.831	.776	.722	.643	.583	.552	.508	.492	.466	.444	.415	.371	.321	.268	.167	.107			
18	.853	.833	.788	.732	.657	.607	.563	.530	.500	.482	.454	.427	.403	.361	.298	.258	.159	.105		
19	.855	.835	.796	.744	.673	.619	.581	.540	.522	.492	.468	.440	.415	.393	.341	.286	.248	.151	.103	
20	.859	.837	.802	.754	.692	.633	.591	.554	.532	.514	.478	.456	.423	.407	.371	.329	.274	.240	.143	.101
21	.863	.839	.806	.762	.710	.651	.599	.563	.546	.524	.500	.466	.438	.415	.387	.359	.315	.264	.232	.137
22	.867	.841	.810	.768	.724	.667	.615	.571	.552	.536	.514	.484	.450	.427	.395	.377	.341	.306	.254	.222
23	.873	.845	.815	.774	.734	.681	.627	.589	.558	.540	.528	.500	.466	.440	.405	.387	.359	.331	.296	.244
24	.879	.851	.819	.780	.744	.692	.641	.603	.571	.544	.534	.516	.486	.450	.421	.393	.371	.349	.319	.286
25	.887	.857	.825	.788	.752	.704	.655	.615	.581	.552	.538	.522	.504	.470	.429	.407	.377	.363	.339	.304
26	.893	.867	.831	.796	.762	.712	.671	.629	.589	.558	.546	.528	.508	.488	.452	.413	.391	.369	.355	.325
27	.899	.877	.839	.804	.772	.722	.683	.643	.601	.565	.550	.538	.512	.492	.470	.435	.397	.383	.361	.343
28	.903	.889	.847	.813	.782	.732	.698	.651	.617	.573	.554	.542	.522	.496	.478	.454	.417	.389	.375	.349
29	.907	.895	.861	.821	.792	.742	.712	.661	.629	.585	.558	.546	.528	.502	.486	.466	.429	.409	.381	.363
30	.911	.899	.873	.831	.804	.752	.724	.673	.643	.595	.565	.550	.534	.508	.488	.478	.446	.417	.401	.371
31	.915	.903	.885	.839	.815	.764	.736	.681	.659	.609	.571	.554	.538	.516	.490	.480	.462	.438	.405	.391
32	.919	.907	.895	.847	.823	.772	.752	.690	.669	.627	.581	.558	.542	.520	.496	.482	.468	.454	.425	.395
33	.921	.913	.903	.855	.829	.780	.760	.708	.679	.637	.599	.567	.546	.524	.498	.488	.472	.460	.440	.417
34	.923	.917	.909	.865	.837	.784	.770	.716	.700	.647	.609	.581	.556	.528	.500	.492	.478	.464	.448	.429
35	.925	.919	.915	.873	.849	.790	.776	.726	.708	.669	.619	.591	.569	.536	.502	.494	.484	.470	.452	.440
36	.927	.921	.917	.883	.859	.798	.784	.732	.718	.679	.643	.601	.577	.548	.506	.496	.486	.476	.460	.444
37	.929	.923	.919	.885	.875	.806	.792	.742	.724	.692	.655	.625	.583	.558	.514	.500	.488	.478	.466	.454
38	.931	.925	.921	.887	.877	.827	.798	.752	.734	.700	.669	.637	.603	.565	.524	.506	.492	.480	.468	.460
39	.933	.927	.923	.889	.877	.833	.819	.760	.744	.712	.679	.651	.613	.583	.532	.514	.496	.484	.470	.462
40	.935	.929	.925	.891	.877	.839	.823	.782	.750	.724	.694	.661	.625	.593	.548	.524	.500	.488	.474	.464

TOTAL OBSERVATIONS 496

TABLE 1. 6.b.  $P(N \geq M)$  I LAUNCH OPPORTUNITIES IN J PERIODS ( $N = 50$  M/SEC).  
BASED ON MAXIMUM WIND SPEEDS IN THE 10-15 KM LAYER OVER CAPE KENNEDY, FLORIDA.  
PERIOD OF RECORD JANUARY 1956 - DECEMBER 1965.

CAPE KENNEDY, FLORIDA JANUARY

SPEEDS GREATER THAN OR EQUAL TO 055 MPS

PC ( I CONSECUTIVE SUCCESSES IN J PERIODS )

J	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	
1	.351																				
2	.442	.264																			
3	.508	.321	.210																		
4	.554	.375	.252	.169																	
5	.589	.417	.292	.204	.137																
6	.615	.450	.335	.238	.161	.115															
7	.637	.484	.367	.274	.185	.133	.099														
8	.657	.512	.395	.308	.212	.151	.113	.087													
9	.675	.530	.423	.339	.238	.171	.127	.099	.077												
10	.692	.544	.446	.363	.264	.192	.143	.111	.087	.069											
11	.710	.554	.462	.385	.290	.212	.159	.125	.097	.075	.065										
12	.726	.563	.476	.401	.313	.232	.175	.139	.109	.081	.069	.063									
13	.742	.573	.488	.415	.333	.252	.192	.153	.121	.099	.073	.067	.060								
14	.758	.583	.496	.427	.349	.268	.208	.167	.133	.097	.079	.071	.065	.058							
15	.770	.593	.504	.442	.363	.282	.222	.181	.145	.105	.085	.077	.069	.063	.056						
16	.776	.603	.512	.454	.381	.294	.236	.194	.157	.113	.091	.083	.073	.067	.060	.054					
17	.780	.611	.520	.464	.397	.308	.250	.206	.167	.121	.097	.089	.077	.071	.065	.058	.052				
18	.784	.619	.528	.474	.411	.323	.266	.218	.177	.129	.103	.095	.081	.075	.069	.063	.056	.050			
19	.788	.627	.536	.482	.425	.333	.280	.232	.188	.137	.109	.101	.085	.079	.073	.067	.060	.054	.048		
20	.792	.635	.544	.488	.440	.343	.292	.244	.198	.145	.115	.107	.089	.083	.077	.071	.065	.058	.052	.046	
21	.794	.643	.552	.494	.450	.353	.304	.254	.208	.153	.121	.113	.093	.087	.081	.075	.069	.063	.056	.050	
22	.796	.651	.560	.500	.458	.361	.317	.264	.216	.161	.127	.119	.097	.091	.085	.079	.073	.067	.060	.054	
23	.798	.657	.569	.506	.466	.373	.329	.274	.222	.169	.133	.125	.101	.095	.089	.083	.077	.071	.065	.058	
24	.804	.663	.577	.512	.472	.381	.341	.284	.228	.175	.139	.131	.105	.099	.093	.087	.081	.075	.069	.063	
25	.810	.673	.583	.518	.478	.387	.353	.294	.234	.181	.145	.137	.109	.103	.097	.091	.085	.079	.073	.067	
26	.817	.683	.591	.524	.484	.393	.361	.304	.240	.188	.149	.143	.113	.107	.101	.095	.089	.083	.077	.071	
27	.825	.692	.599	.532	.490	.399	.369	.313	.246	.194	.153	.149	.117	.111	.105	.099	.093	.087	.081	.075	
28	.833	.700	.607	.540	.498	.405	.377	.319	.250	.200	.157	.153	.121	.115	.109	.103	.097	.091	.085	.079	
29	.841	.709	.615	.549	.506	.413	.385	.325	.254	.204	.161	.157	.125	.119	.113	.107	.101	.095	.089	.083	
30	.849	.716	.623	.556	.514	.421	.395	.331	.256	.209	.165	.161	.129	.123	.117	.111	.105	.099	.093	.087	
31	.857	.724	.631	.565	.522	.429	.405	.339	.258	.212	.169	.165	.133	.127	.121	.115	.109	.103	.097	.091	
32	.865	.732	.639	.573	.530	.438	.415	.347	.262	.216	.173	.169	.137	.131	.125	.119	.113	.107	.101	.095	
33	.873	.740	.647	.581	.538	.446	.425	.355	.266	.227	.177	.173	.141	.135	.129	.123	.117	.111	.105	.099	
34	.879	.748	.655	.589	.546	.454	.435	.363	.270	.228	.183	.177	.145	.139	.133	.127	.121	.115	.109	.103	
35	.885	.754	.661	.597	.554	.462	.446	.371	.274	.234	.190	.183	.149	.143	.137	.131	.125	.119	.113	.107	
36	.891	.760	.667	.603	.563	.470	.456	.379	.278	.240	.196	.190	.155	.147	.141	.135	.129	.123	.117	.111	
37	.897	.766	.671	.609	.569	.478	.464	.387	.282	.246	.202	.196	.161	.153	.145	.139	.133	.127	.121	.115	
38	.901	.772	.675	.615	.575	.486	.472	.393	.286	.252	.208	.202	.167	.159	.151	.143	.137	.131	.125	.119	
39	.903	.776	.679	.621	.581	.494	.480	.399	.290	.259	.214	.208	.173	.165	.157	.149	.141	.135	.129	.123	
40	.905	.778	.681	.627	.587	.502	.488	.405	.294	.264	.220	.214	.179	.171	.163	.155	.147	.139	.133	.127	

TOTAL OBSERVATIONS 496

TABLE 1. 7.a.  $P(N \geq M^*)$  I CONSECUTIVE LAUNCH OPPORTUNITIES IN J PERIODS ( $M^* = 55$  M/SEC).  
 BASED ON MAXIMUM WIND SPEEDS IN THE 10-15 KM LAYER OVER CAPE KENNEDY, FLORIDA.  
 PERIOD OF RECORD JANUARY 1956 - DECEMBER 1963.

CAPF KENNEDY, FLORIDA JANUARY  
 SPEEDS GREATER THAN OR EQUAL TO 055 MPS

P ( I SUCCESSSES IN J PERIODS )

J	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
1	.351																			
2	.442	.264																		
3	.508	.343	.210																	
4	.554	.407	.284	.169																
5	.589	.456	.347	.240	.137															
6	.615	.502	.389	.302	.202	.115														
7	.637	.534	.434	.343	.262	.173	.099													
8	.657	.552	.478	.389	.296	.240	.147	.087												
9	.675	.571	.496	.433	.343	.272	.214	.127	.077											
10	.692	.581	.518	.456	.387	.317	.244	.194	.109	.069										
11	.710	.591	.524	.484	.411	.365	.244	.222	.173	.093	.065									
12	.726	.605	.530	.490	.448	.395	.335	.258	.198	.153	.083	.063								
13	.742	.615	.542	.494	.462	.431	.375	.306	.224	.170	.137	.077	.060							
14	.758	.625	.552	.502	.472	.444	.415	.355	.266	.202	.165	.125	.071	.058						
15	.770	.639	.563	.508	.484	.452	.431	.399	.315	.244	.183	.153	.111	.069	.056					
16	.776	.653	.577	.514	.492	.464	.442	.417	.359	.294	.224	.171	.131	.109	.065	.054				
17	.780	.663	.591	.524	.498	.474	.452	.433	.379	.333	.278	.212	.145	.125	.105	.063	.052			
18	.784	.673	.605	.534	.506	.482	.460	.446	.403	.353	.313	.266	.181	.137	.119	.105	.060	.050		
19	.788	.683	.617	.544	.514	.490	.468	.454	.419	.383	.327	.300	.236	.169	.129	.115	.101	.058	.048	
20	.792	.694	.629	.552	.524	.498	.474	.462	.429	.401	.355	.313	.272	.220	.159	.123	.111	.099	.056	.046
21	.794	.706	.635	.567	.532	.508	.480	.468	.440	.411	.373	.341	.290	.250	.208	.149	.115	.111	.097	.054
22	.796	.716	.643	.573	.548	.514	.490	.474	.448	.419	.385	.359	.323	.270	.236	.190	.137	.115	.111	.095
23	.798	.724	.651	.581	.554	.530	.498	.482	.456	.425	.393	.375	.341	.302	.256	.216	.167	.137	.115	.111
24	.804	.732	.659	.589	.560	.536	.516	.488	.466	.433	.397	.387	.353	.327	.286	.240	.185	.163	.137	.115
25	.810	.744	.667	.595	.569	.542	.522	.506	.472	.442	.405	.391	.369	.339	.313	.270	.210	.177	.159	.137
26	.817	.756	.677	.601	.573	.552	.528	.514	.488	.448	.411	.399	.373	.355	.325	.302	.238	.198	.169	.157
27	.825	.766	.690	.609	.577	.558	.538	.522	.494	.464	.415	.405	.381	.359	.343	.317	.274	.222	.185	.165
28	.833	.776	.700	.619	.583	.565	.544	.532	.502	.472	.427	.409	.387	.367	.349	.335	.296	.256	.206	.177
29	.841	.786	.710	.629	.589	.571	.552	.538	.512	.482	.435	.417	.393	.373	.357	.343	.321	.282	.236	.194
30	.849	.794	.722	.639	.595	.577	.560	.546	.520	.492	.446	.423	.399	.379	.365	.349	.335	.308	.266	.218
31	.857	.802	.732	.651	.601	.583	.569	.554	.530	.500	.456	.431	.403	.387	.373	.357	.341	.325	.292	.250
32	.865	.808	.742	.661	.609	.589	.577	.563	.538	.512	.464	.440	.409	.391	.381	.367	.347	.331	.310	.276
33	.873	.815	.748	.675	.617	.595	.583	.571	.546	.522	.478	.446	.415	.397	.387	.375	.357	.337	.317	.294
34	.879	.823	.752	.688	.629	.601	.589	.577	.554	.530	.492	.456	.421	.401	.393	.383	.365	.347	.323	.304
35	.885	.829	.758	.698	.637	.613	.595	.583	.560	.538	.506	.464	.431	.405	.397	.389	.375	.357	.331	.310
36	.891	.833	.766	.706	.647	.619	.607	.589	.567	.544	.514	.478	.440	.413	.401	.393	.381	.371	.339	.319
37	.897	.837	.772	.714	.657	.627	.613	.601	.573	.550	.520	.484	.456	.419	.409	.397	.385	.377	.357	.325
38	.901	.841	.778	.724	.667	.633	.621	.607	.585	.556	.526	.490	.462	.435	.415	.405	.389	.381	.367	.341
39	.903	.845	.784	.730	.679	.641	.627	.615	.591	.569	.532	.496	.468	.444	.429	.411	.397	.385	.373	.351
40	.905	.847	.790	.736	.690	.651	.633	.621	.599	.577	.542	.500	.474	.450	.438	.423	.403	.393	.379	.359

TOTAL OBSERVATIONS 496

TABLE 1. 7.b. P(W ≥ W\*) I LAUNCH OPPORTUNITIES IN J PERIODS (W\* = 55 M/SEC).  
 BASED ON MAXIMUM WIND SPEEDS IN THE 10-15 KM LAYER OVER CAPE KENNEDY, FLORIDA.  
 PERIOD OF RECORD JANUARY 1956 - DECEMBER 1963.

CAPF KENNEDY , FLORIDA JANLARY

SPEEDS GREATER THAN OR EQUAL TO 060 MPS

PC ( I CONSECUTIVE SUCCESSES IN J PERIODS )

J	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
1	.236																			
2	.308	.165																		
3	.359	.212	.121																	
4	.397	.256	.155	.089																
5	.429	.290	.198	.115	.065															
6	.458	.325	.220	.141	.085	.046														
7	.484	.355	.246	.167	.105	.060	.034													
8	.504	.383	.272	.196	.125	.075	.046	.024												
9	.520	.403	.298	.216	.145	.089	.058	.034	.016											
10	.532	.419	.321	.236	.165	.103	.071	.044	.024	.008										
11	.546	.431	.341	.256	.183	.117	.083	.054	.032	.010	.006									
12	.558	.442	.359	.274	.202	.131	.095	.065	.040	.012	.008	.004								
13	.571	.454	.373	.292	.218	.143	.107	.075	.048	.014	.010	.006	.002							
14	.581	.464	.387	.308	.234	.153	.119	.085	.056	.016	.012	.008	.004	.000						
15	.591	.474	.403	.323	.250	.153	.127	.095	.065	.018	.014	.010	.006	.000	.000					
16	.601	.480	.419	.339	.266	.173	.135	.103	.073	.020	.016	.012	.008	.000	.000	.000				
17	.611	.486	.435	.353	.282	.183	.143	.109	.079	.022	.018	.014	.010	.000	.000	.000	.000			
18	.621	.492	.446	.367	.296	.196	.151	.115	.085	.024	.020	.016	.012	.000	.000	.000	.000	.000		
19	.631	.498	.456	.381	.310	.206	.161	.121	.091	.026	.022	.018	.014	.000	.000	.000	.000	.000	.000	
20	.641	.504	.464	.389	.325	.216	.171	.127	.099	.028	.024	.020	.016	.000	.000	.000	.000	.000	.000	
21	.651	.510	.472	.395	.337	.226	.181	.133	.107	.032	.026	.022	.018	.000	.000	.000	.000	.000	.000	
22	.661	.516	.480	.401	.345	.236	.192	.139	.115	.036	.030	.024	.020	.000	.000	.000	.000	.000	.000	
23	.671	.522	.488	.407	.355	.242	.202	.145	.123	.040	.034	.028	.022	.000	.000	.000	.000	.000	.000	
24	.681	.528	.496	.413	.365	.248	.212	.151	.131	.044	.038	.032	.026	.000	.000	.000	.000	.000	.000	
25	.690	.534	.504	.419	.375	.254	.220	.157	.139	.048	.042	.036	.030	.002	.000	.000	.000	.000	.000	
26	.700	.540	.512	.425	.385	.260	.226	.163	.147	.052	.046	.040	.034	.004	.002	.000	.000	.000	.000	
27	.710	.546	.520	.431	.395	.266	.232	.167	.155	.056	.050	.044	.038	.006	.004	.002	.000	.000	.000	
28	.718	.552	.528	.438	.405	.272	.238	.169	.163	.060	.054	.048	.042	.008	.006	.004	.002	.000	.000	
29	.726	.558	.536	.446	.415	.278	.244	.171	.167	.065	.058	.052	.046	.010	.008	.006	.004	.002	.000	
30	.734	.565	.544	.454	.427	.284	.250	.173	.169	.069	.063	.056	.050	.012	.010	.008	.006	.004	.002	
31	.742	.571	.552	.462	.438	.292	.256	.175	.171	.071	.067	.060	.054	.014	.012	.010	.008	.006	.004	
32	.750	.577	.560	.470	.448	.300	.264	.177	.173	.073	.071	.065	.058	.016	.014	.012	.010	.008	.006	
33	.758	.583	.569	.478	.458	.308	.272	.181	.175	.075	.073	.069	.063	.018	.016	.014	.012	.010	.008	
34	.766	.589	.577	.486	.468	.317	.280	.185	.179	.077	.075	.073	.067	.020	.018	.016	.014	.012	.010	
35	.774	.595	.583	.494	.478	.325	.288	.190	.183	.081	.077	.075	.071	.022	.020	.018	.016	.014	.012	
36	.782	.601	.589	.502	.488	.333	.296	.194	.188	.085	.079	.077	.075	.024	.022	.020	.018	.016	.014	
37	.790	.607	.595	.510	.498	.341	.302	.198	.192	.089	.081	.079	.077	.026	.024	.022	.020	.018	.016	
38	.798	.613	.601	.518	.506	.349	.308	.202	.196	.093	.083	.081	.079	.028	.026	.024	.022	.020	.018	
39	.804	.619	.607	.526	.514	.357	.315	.206	.200	.097	.085	.083	.081	.030	.028	.026	.024	.022	.020	
40	.810	.625	.613	.534	.522	.365	.321	.210	.204	.101	.087	.085	.083	.032	.030	.028	.026	.024	.022	

TOTAL OBSERVATIONS 496

TABLE 1. S.a. P(W ≥ W\*) I CONSECUTIVE LAUNCH OPPORTUNITIES IN J PERIODS (W\* = 60 M/SEC).

BASED ON MAXIMUM WIND SPEEDS IN THE 10-15 KM LAYER OVER CAPE KENNEDY, FLORIDA.

PERIOD OF RECORD JANUARY 1956 - DECEMBER 1963.

CAPE KENNEDY, FLORIDA JANUARY  
SPEEDS GREATER THAN OR EQUAL TO 060 MPS

P ( I SUCCESSES IN J PERIODS )

J	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
1	.236																			
2	.308	.165																		
3	.359	.232	.121																	
4	.397	.276	.185	.089																
5	.429	.313	.228	.149	.065															
6	.458	.345	.268	.181	.125	.046														
7	.484	.373	.304	.216	.155	.101	.034													
8	.504	.399	.337	.248	.188	.127	.085	.024												
9	.520	.419	.373	.274	.220	.151	.107	.073	.016											
10	.532	.435	.397	.313	.246	.175	.125	.095	.063	.008										
11	.546	.446	.415	.343	.286	.200	.143	.109	.087	.046	.006									
12	.558	.458	.427	.365	.321	.240	.163	.121	.103	.069	.040	.004								
13	.571	.468	.440	.385	.343	.278	.202	.133	.115	.089	.058	.034	.002							
14	.581	.478	.452	.399	.365	.304	.242	.163	.123	.101	.081	.048	.030	.000						
15	.591	.484	.464	.415	.379	.331	.270	.200	.147	.113	.091	.067	.044	.024	.000					
16	.601	.490	.472	.429	.399	.347	.296	.224	.181	.137	.101	.075	.063	.038	.020	.000				
17	.611	.496	.478	.444	.411	.371	.310	.248	.204	.175	.121	.081	.073	.056	.034	.016	.000			
18	.621	.502	.484	.454	.425	.387	.333	.260	.222	.198	.163	.095	.079	.069	.052	.030	.012	.000		
19	.631	.508	.490	.462	.438	.403	.349	.280	.232	.214	.192	.137	.087	.075	.065	.050	.026	.008	.000	
20	.641	.514	.496	.470	.446	.421	.363	.296	.248	.222	.208	.171	.123	.079	.073	.060	.048	.020	.006	.000
21	.651	.520	.502	.478	.454	.433	.379	.313	.262	.234	.216	.192	.157	.107	.077	.071	.056	.044	.016	.004
22	.661	.526	.508	.486	.462	.444	.391	.331	.276	.246	.226	.204	.177	.139	.101	.075	.069	.050	.040	.014
23	.671	.532	.514	.492	.470	.454	.399	.351	.288	.256	.238	.218	.190	.155	.133	.097	.073	.063	.044	.040
24	.681	.538	.520	.498	.476	.462	.411	.363	.306	.266	.248	.232	.206	.165	.147	.127	.095	.067	.056	.042
25	.690	.546	.526	.504	.482	.470	.419	.377	.321	.280	.260	.238	.226	.179	.157	.137	.123	.089	.063	.050
26	.700	.550	.536	.510	.488	.476	.427	.385	.335	.292	.274	.248	.234	.206	.165	.147	.131	.117	.085	.054
27	.710	.556	.542	.520	.494	.482	.435	.393	.345	.304	.286	.262	.242	.214	.192	.153	.143	.123	.113	.075
28	.718	.565	.550	.528	.502	.488	.442	.399	.357	.315	.296	.276	.252	.222	.200	.177	.149	.135	.119	.105
29	.726	.573	.556	.538	.512	.494	.448	.403	.367	.327	.306	.286	.264	.230	.208	.190	.169	.141	.131	.113
30	.734	.581	.563	.546	.524	.502	.454	.407	.375	.339	.319	.294	.274	.242	.210	.200	.185	.157	.137	.127
31	.742	.589	.569	.554	.534	.514	.460	.411	.383	.345	.333	.304	.282	.252	.216	.202	.198	.177	.149	.133
32	.750	.597	.575	.563	.542	.522	.468	.419	.391	.351	.339	.319	.292	.262	.220	.206	.200	.192	.171	.143
33	.758	.605	.581	.569	.550	.536	.482	.421	.395	.359	.347	.323	.308	.274	.224	.210	.202	.196	.188	.165
34	.766	.613	.587	.575	.556	.544	.492	.431	.401	.363	.355	.331	.313	.294	.230	.214	.204	.198	.194	.183
35	.774	.621	.593	.581	.563	.550	.502	.438	.411	.369	.359	.337	.323	.302	.246	.218	.206	.196	.192	
36	.782	.629	.599	.587	.569	.556	.510	.446	.417	.379	.363	.343	.327	.319	.250	.232	.208	.202	.198	.194
37	.790	.633	.607	.593	.575	.563	.516	.452	.425	.385	.373	.349	.331	.323	.268	.236	.218	.204	.200	.196
38	.798	.641	.613	.601	.581	.569	.522	.458	.431	.393	.379	.359	.335	.327	.276	.252	.222	.212	.202	.198
39	.804	.647	.619	.607	.588	.575	.528	.464	.438	.399	.387	.367	.343	.331	.284	.258	.236	.216	.208	.200
40	.810	.653	.625	.613	.595	.583	.534	.468	.444	.405	.393	.377	.349	.339	.290	.266	.244	.228	.212	.204

TOTAL OBSERVATIONS 496

TABLE 1. S.b. P(N ≥ W) I LAUNCH OPPORTUNITIES IN J PERIODS (W = 60 M/SEC).  
BASED ON MAXIMUM WIND SPEEDS IN THE 10-15 KM LAYER OVER CAPE KENNEDY, FLORIDA.  
PERIOD OF RECORD JANUARY 1950 - DECEMBER 1963.



CAPE KENNEDY, FLORIDA JANUARY

SPEEDS GREATER THAN OR EQUAL TO 065 MPS

PC ( I CONSECUTIVE SUCCESSES IN J PERIODS )

J	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
1	.159																			
2	.206	.115																		
3	.244	.147	.085																	
4	.280	.177	.109	.063																
5	.313	.206	.131	.079	.048															
6	.347	.232	.153	.095	.063	.036														
7	.379	.258	.173	.111	.077	.046	.028													
8	.403	.284	.192	.127	.091	.056	.038	.020												
9	.425	.308	.210	.141	.105	.067	.048	.028	.014											
10	.442	.329	.226	.155	.119	.077	.058	.036	.020	.008										
11	.454	.349	.240	.169	.131	.087	.069	.044	.026	.010	.006									
12	.464	.367	.252	.181	.143	.097	.079	.052	.032	.017	.008	.004								
13	.474	.381	.264	.194	.153	.105	.089	.060	.038	.014	.010	.006	.002							
14	.484	.391	.274	.206	.163	.111	.099	.069	.044	.016	.012	.008	.004	.000						
15	.494	.403	.284	.218	.173	.117	.105	.077	.050	.018	.014	.010	.006	.000	.000					
16	.504	.413	.294	.230	.183	.123	.111	.083	.056	.020	.016	.012	.008	.000	.000	.000				
17	.512	.423	.304	.242	.196	.129	.117	.087	.060	.022	.018	.014	.010	.000	.000	.000	.000			
18	.518	.433	.313	.252	.206	.135	.123	.091	.065	.024	.020	.016	.012	.000	.000	.000	.000	.000		
19	.524	.444	.321	.260	.216	.141	.129	.095	.069	.026	.022	.018	.014	.000	.000	.000	.000	.000	.000	
20	.530	.454	.327	.266	.226	.147	.135	.099	.073	.028	.024	.020	.016	.000	.000	.000	.000	.000	.000	.000
21	.536	.462	.335	.270	.234	.153	.141	.103	.077	.030	.026	.022	.018	.000	.000	.000	.000	.000	.000	.000
22	.542	.470	.343	.276	.238	.159	.147	.107	.081	.032	.028	.024	.020	.000	.000	.000	.000	.000	.000	.000
23	.548	.478	.351	.282	.244	.163	.153	.111	.085	.034	.030	.026	.022	.000	.000	.000	.000	.000	.000	.000
24	.554	.486	.359	.288	.250	.165	.159	.115	.089	.036	.032	.028	.024	.000	.000	.000	.000	.000	.000	.000
25	.560	.494	.367	.294	.256	.167	.163	.119	.093	.038	.034	.030	.026	.000	.000	.000	.000	.000	.000	.000
26	.569	.502	.375	.300	.262	.169	.165	.123	.099	.040	.036	.032	.028	.000	.000	.000	.000	.000	.000	.000
27	.575	.508	.383	.306	.268	.171	.167	.125	.105	.044	.038	.034	.030	.000	.000	.000	.000	.000	.000	.000
28	.581	.514	.389	.313	.274	.173	.169	.125	.111	.048	.042	.036	.032	.000	.000	.000	.000	.000	.000	.000
29	.587	.522	.395	.319	.280	.175	.171	.125	.115	.052	.046	.040	.034	.000	.000	.000	.000	.000	.000	.000
30	.593	.530	.403	.325	.286	.177	.173	.125	.117	.056	.050	.044	.038	.000	.000	.000	.000	.000	.000	.000
31	.599	.538	.411	.333	.292	.179	.175	.125	.119	.060	.054	.048	.042	.002	.000	.000	.000	.000	.000	.000
32	.605	.546	.419	.341	.300	.181	.177	.125	.121	.065	.058	.052	.046	.004	.002	.000	.000	.000	.000	.000
33	.611	.554	.427	.349	.308	.185	.179	.125	.123	.069	.063	.056	.050	.006	.004	.002	.000	.000	.000	.000
34	.617	.563	.435	.357	.317	.190	.183	.125	.125	.073	.067	.060	.054	.008	.006	.004	.002	.000	.000	.000
35	.623	.571	.444	.365	.325	.194	.188	.127	.125	.077	.071	.065	.058	.010	.008	.006	.004	.002	.000	.000
36	.629	.579	.452	.373	.333	.198	.192	.129	.125	.081	.075	.069	.063	.012	.010	.008	.006	.004	.002	.000
37	.635	.587	.460	.381	.341	.202	.196	.131	.125	.083	.079	.073	.067	.014	.012	.010	.008	.006	.004	.002
38	.641	.595	.468	.389	.349	.206	.200	.133	.125	.085	.083	.077	.071	.016	.014	.012	.010	.008	.006	.004
39	.647	.603	.476	.397	.357	.214	.204	.135	.125	.087	.085	.081	.075	.018	.016	.014	.012	.010	.008	.006
40	.653	.611	.482	.405	.365	.220	.208	.137	.125	.089	.087	.085	.079	.020	.018	.016	.014	.012	.010	.008

TOTAL OBSERVATIONS 496

TABLE 1. P(W ≥ W\*) I CONSECUTIVE LAUNCH OPPORTUNITIES IN J PERIODS (W\* = 65 M/SEC).  
 BASED ON MAXIMUM WIND SPEEDS IN THE 10-15 KM LAYER OVER CAPE KENNEDY, FLORIDA.  
 PERIOD OF RECORD JANUARY 1956 - DECEMBER 1963.

CAPF KENNEDY, FLORIDA JANUARY

SPEEDS GREATER THAN OR EQUAL TO 065 MPS

P ( I SUCCESSES IN J PERIODS )

	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
1	.159																			
2	.206	.115																		
3	.244	.153	.085																	
4	.280	.183	.117	.063																
5	.313	.214	.143	.087	.048															
6	.347	.238	.169	.107	.073	.036														
7	.379	.266	.190	.127	.091	.058	.028													
8	.403	.296	.210	.145	.107	.075	.050	.020												
9	.425	.319	.234	.163	.123	.087	.065	.042	.014											
10	.442	.345	.250	.185	.139	.099	.075	.054	.036	.008										
11	.454	.369	.272	.202	.159	.113	.083	.063	.048	.026	.006									
12	.464	.387	.296	.224	.173	.131	.093	.069	.058	.034	.024	.004								
13	.474	.397	.319	.246	.198	.143	.107	.077	.065	.042	.032	.022	.002							
14	.484	.407	.337	.264	.218	.169	.115	.091	.071	.046	.040	.030	.020	.000						
15	.494	.417	.351	.282	.234	.190	.137	.099	.083	.050	.042	.040	.028	.016	.000					
16	.504	.427	.365	.292	.252	.206	.153	.121	.089	.060	.044	.042	.038	.024	.014	.000				
17	.512	.440	.377	.304	.260	.228	.167	.133	.109	.067	.050	.044	.040	.036	.020	.012	.000			
18	.518	.452	.389	.315	.270	.238	.192	.141	.117	.089	.054	.048	.044	.038	.034	.016	.010	.000		
19	.524	.460	.403	.327	.280	.248	.202	.163	.123	.099	.073	.052	.046	.044	.036	.032	.012	.008	.000	
20	.530	.468	.413	.343	.290	.258	.212	.171	.143	.107	.077	.073	.048	.046	.044	.034	.028	.010	.006	.000
21	.536	.476	.423	.355	.304	.268	.222	.179	.147	.120	.081	.075	.069	.048	.046	.044	.030	.026	.008	.004
22	.542	.484	.433	.367	.317	.280	.232	.188	.151	.133	.103	.077	.071	.069	.048	.046	.042	.028	.024	.006
23	.548	.492	.442	.381	.329	.292	.242	.196	.157	.137	.100	.095	.073	.071	.069	.048	.044	.042	.026	.022
24	.554	.500	.450	.389	.347	.304	.252	.204	.161	.143	.115	.099	.089	.073	.071	.069	.046	.044	.042	.024
25	.560	.506	.460	.395	.359	.323	.262	.214	.165	.147	.123	.103	.093	.087	.073	.071	.067	.046	.044	.042
26	.569	.512	.466	.403	.367	.335	.278	.226	.171	.151	.129	.109	.097	.091	.085	.073	.071	.065	.046	.044
27	.575	.520	.472	.409	.377	.343	.290	.242	.179	.157	.135	.113	.103	.095	.089	.083	.073	.071	.063	.046
28	.581	.530	.478	.415	.383	.353	.298	.256	.190	.165	.143	.117	.109	.099	.093	.087	.081	.073	.071	.060
29	.587	.540	.486	.421	.389	.359	.308	.266	.200	.173	.151	.125	.115	.105	.097	.091	.085	.079	.073	.071
30	.593	.550	.494	.429	.395	.365	.317	.278	.208	.181	.157	.131	.123	.109	.101	.095	.089	.083	.077	.073
31	.599	.560	.502	.438	.403	.371	.325	.286	.218	.190	.161	.137	.125	.119	.107	.099	.093	.087	.081	.075
32	.605	.571	.510	.444	.413	.379	.333	.294	.224	.200	.165	.141	.127	.123	.117	.105	.097	.091	.085	.077
33	.611	.579	.520	.450	.419	.391	.341	.304	.230	.206	.171	.145	.129	.125	.121	.115	.103	.095	.089	.079
34	.617	.585	.528	.458	.425	.399	.353	.315	.238	.212	.173	.151	.131	.125	.125	.119	.113	.101	.093	.081
35	.623	.591	.536	.464	.433	.407	.361	.327	.248	.218	.177	.155	.133	.125	.125	.125	.117	.111	.099	.083
36	.629	.597	.544	.470	.440	.415	.371	.335	.260	.226	.181	.161	.135	.125	.125	.125	.125	.115	.109	.087
37	.635	.603	.552	.476	.446	.421	.379	.347	.270	.234	.188	.169	.135	.125	.125	.125	.125	.125	.113	.095
38	.641	.609	.560	.482	.452	.427	.385	.355	.286	.242	.192	.179	.137	.125	.125	.125	.125	.125	.125	.099
39	.647	.615	.569	.488	.458	.433	.391	.361	.296	.250	.196	.188	.141	.125	.125	.125	.125	.125	.125	.115
40	.653	.621	.575	.494	.464	.440	.397	.367	.306	.266	.210	.192	.147	.129	.125	.125	.125	.125	.125	.117

TOTAL OBSERVATIONS 496

TABLE 1. 9.b.  $P(W \geq W_0)$  I LAUNCH OPPORTUNITIES IN J PERIODS ( $W_0 = 65$  M/SEC).  
 BASED ON MAXIMUM WIND SPEEDS IN THE 10-15 KM LAYER OVER CAPE KENNEDY, FLORIDA.  
 PERIOD OF RECORD JANUARY 1956 - DECEMBER 1963.

CAPE KENNEDY, FLORIDA JANUARY

SPEEDS GREATER THAN OR EQUAL TO 070 MPS

PC ( I CONSECUTIVE SUCCESSES IN J PERIODS )

J	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
1	.111																			
2	.155	.069																		
3	.190	.097	.042																	
4	.224	.123	.054	.032																
5	.252	.147	.067	.040	.026															
6	.278	.171	.079	.048	.032	.022														
7	.306	.190	.089	.056	.038	.028	.018													
8	.331	.208	.099	.065	.044	.034	.024	.014												
9	.353	.224	.107	.071	.050	.040	.030	.020	.010											
10	.373	.238	.115	.077	.056	.046	.036	.026	.014	.006										
11	.391	.252	.123	.083	.060	.052	.042	.032	.018	.008	.004									
12	.409	.266	.129	.089	.065	.058	.048	.038	.022	.010	.006	.002								
13	.425	.280	.135	.095	.069	.063	.054	.044	.026	.012	.008	.004	.000							
14	.438	.294	.141	.101	.073	.067	.060	.050	.030	.014	.010	.006	.000	.000						
15	.450	.308	.147	.107	.077	.071	.065	.056	.034	.014	.012	.008	.000	.000	.000					
16	.460	.319	.155	.113	.081	.075	.069	.063	.038	.018	.014	.010	.000	.000	.000	.000				
17	.470	.327	.163	.121	.085	.079	.073	.067	.042	.020	.016	.012	.000	.000	.000	.000	.000			
18	.476	.335	.171	.129	.089	.083	.077	.071	.046	.022	.018	.014	.000	.000	.000	.000	.000	.000		
19	.482	.343	.179	.137	.093	.087	.081	.075	.050	.024	.020	.016	.000	.000	.000	.000	.000	.000	.000	
20	.488	.351	.188	.143	.097	.091	.085	.079	.054	.026	.022	.018	.000	.000	.000	.000	.000	.000	.000	.000
21	.494	.359	.196	.149	.101	.095	.089	.083	.058	.028	.024	.020	.000	.000	.000	.000	.000	.000	.000	.000
22	.500	.365	.204	.155	.103	.099	.093	.087	.063	.030	.026	.022	.000	.000	.000	.000	.000	.000	.000	.000
23	.506	.373	.212	.161	.105	.103	.097	.091	.067	.032	.028	.024	.000	.000	.000	.000	.000	.000	.000	.000
24	.512	.381	.220	.167	.107	.105	.101	.095	.071	.034	.030	.026	.000	.000	.000	.000	.000	.000	.000	.000
25	.518	.389	.228	.173	.109	.107	.105	.099	.075	.036	.032	.028	.000	.000	.000	.000	.000	.000	.000	.000
26	.524	.397	.236	.179	.111	.109	.107	.103	.081	.038	.034	.030	.000	.000	.000	.000	.000	.000	.000	.000
27	.530	.405	.244	.185	.113	.111	.109	.107	.087	.042	.036	.032	.000	.000	.000	.000	.000	.000	.000	.000
28	.538	.413	.252	.192	.115	.113	.111	.109	.093	.044	.040	.034	.000	.000	.000	.000	.000	.000	.000	.000
29	.546	.423	.260	.198	.117	.115	.113	.111	.099	.050	.044	.038	.000	.000	.000	.000	.000	.000	.000	.000
30	.554	.433	.270	.204	.119	.117	.115	.113	.103	.054	.048	.042	.002	.000	.000	.000	.000	.000	.000	.000
31	.563	.444	.280	.210	.121	.119	.117	.115	.107	.058	.052	.046	.004	.002	.000	.000	.000	.000	.000	.000
32	.571	.454	.288	.216	.123	.121	.119	.117	.111	.063	.056	.050	.006	.004	.002	.000	.000	.000	.000	.000
33	.579	.464	.296	.220	.125	.123	.121	.119	.115	.067	.060	.054	.008	.006	.004	.002	.000	.000	.000	.000
34	.585	.474	.304	.224	.125	.125	.123	.121	.119	.071	.065	.058	.010	.008	.006	.004	.000	.000	.000	.000
35	.591	.482	.310	.228	.125	.125	.125	.123	.121	.075	.069	.063	.012	.010	.008	.006	.000	.000	.000	.000
36	.597	.490	.317	.232	.125	.125	.125	.125	.123	.079	.073	.067	.014	.012	.010	.008	.000	.000	.000	.000
37	.603	.498	.323	.236	.125	.125	.125	.125	.125	.081	.077	.071	.016	.014	.012	.010	.000	.000	.000	.000
38	.609	.506	.329	.240	.125	.125	.125	.125	.125	.083	.081	.075	.018	.016	.014	.012	.000	.000	.000	.000
39	.615	.514	.335	.244	.125	.125	.125	.125	.125	.085	.083	.079	.020	.018	.016	.014	.000	.000	.000	.000
40	.621	.522	.341	.248	.125	.125	.125	.125	.125	.087	.085	.083	.022	.020	.018	.016	.000	.000	.000	.000

TOTAL OBSERVATIONS 496

TABLE 1.10. a. P(M ≥ W) I CONSECUTIVE LAUNCH OPPORTUNITIES IN J PERIODS (W = 70 M/SEC).  
 BASED ON MAXIMUM WIND SPEEDS IN THE 10-15 KM LAYER OVER CAPE KENNEDY, FLORIDA.  
 PERIOD OF RECORD JANUARY 1956 - DECEMBER 1963.

CAPE KENNEDY , FLORIDA JANUARY  
SPEEDS GREATER THAN OR EQUAL TO 070 MPS

P ( I SUCCESSES IN J PERIODS )

	I																			
J	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
1	.111																			
2	.155	.069																		
3	.190	.109	.042																	
4	.224	.129	.065	.032																
5	.252	.159	.079	.048	.026															
6	.278	.181	.101	.056	.040	.022														
7	.306	.200	.117	.073	.044	.038	.018													
8	.331	.220	.129	.087	.054	.042	.036	.014												
9	.353	.236	.145	.099	.060	.052	.040	.034	.010											
10	.373	.250	.157	.117	.067	.056	.050	.038	.030	.006										
11	.391	.266	.167	.131	.079	.060	.054	.048	.034	.024	.004									
12	.409	.282	.179	.143	.087	.071	.058	.052	.044	.028	.022	.002								
13	.425	.296	.196	.155	.095	.075	.069	.056	.050	.034	.024	.020	.000							
14	.438	.315	.208	.171	.105	.079	.073	.067	.054	.040	.032	.022	.016	.000						
15	.450	.327	.228	.181	.117	.087	.077	.071	.065	.042	.038	.030	.018	.014	.000					
16	.460	.341	.240	.198	.127	.091	.087	.075	.069	.050	.040	.036	.026	.016	.012	.000				
17	.470	.353	.252	.212	.141	.095	.089	.087	.073	.054	.046	.038	.034	.022	.014	.010	.000			
18	.476	.369	.262	.226	.153	.103	.091	.089	.087	.058	.052	.042	.036	.032	.018	.012	.008	.000		
19	.482	.381	.276	.238	.165	.109	.097	.091	.089	.075	.056	.050	.038	.034	.030	.014	.010	.006	.000	
20	.488	.393	.290	.250	.177	.113	.101	.097	.091	.077	.075	.054	.046	.036	.032	.026	.012	.008	.004	.000
21	.494	.405	.300	.262	.192	.117	.103	.101	.097	.079	.077	.075	.048	.046	.034	.028	.024	.010	.006	.002
22	.500	.417	.313	.272	.206	.123	.105	.103	.101	.085	.079	.077	.069	.048	.046	.030	.026	.022	.008	.004
23	.506	.429	.325	.284	.218	.129	.109	.105	.103	.091	.083	.079	.071	.069	.048	.044	.028	.024	.020	.006
24	.512	.442	.337	.296	.230	.135	.111	.109	.105	.095	.089	.081	.073	.071	.069	.046	.044	.026	.022	.018
25	.518	.452	.349	.308	.244	.141	.113	.111	.109	.099	.093	.085	.075	.073	.071	.067	.046	.044	.024	.020
26	.524	.462	.357	.321	.256	.151	.115	.113	.111	.105	.097	.089	.077	.075	.073	.071	.065	.046	.044	.022
27	.530	.470	.367	.329	.272	.159	.119	.115	.113	.106	.103	.093	.079	.077	.075	.073	.071	.063	.046	.044
28	.538	.478	.377	.335	.282	.173	.123	.117	.115	.113	.107	.099	.081	.079	.077	.075	.073	.071	.060	.046
29	.546	.488	.385	.343	.290	.183	.131	.119	.117	.114	.113	.103	.085	.081	.079	.077	.075	.073	.071	.058
30	.554	.498	.395	.349	.298	.194	.137	.123	.119	.117	.115	.111	.089	.083	.081	.079	.077	.075	.073	.071
31	.563	.508	.405	.355	.304	.202	.143	.127	.121	.119	.117	.115	.097	.085	.083	.081	.079	.077	.075	.073
32	.571	.518	.415	.361	.310	.210	.147	.131	.123	.121	.119	.117	.105	.089	.085	.083	.081	.079	.077	.075
33	.579	.526	.427	.367	.319	.214	.151	.133	.125	.123	.121	.119	.111	.095	.087	.85	.083	.081	.079	.077
34	.585	.534	.435	.377	.327	.218	.151	.135	.125	.125	.123	.121	.117	.099	.091	.087	.085	.083	.081	.079
35	.591	.542	.444	.383	.337	.226	.151	.135	.125	.124	.125	.123	.121	.105	.095	.089	.087	.085	.083	.081
36	.597	.550	.452	.389	.343	.236	.153	.135	.125	.125	.125	.125	.123	.109	.103	.091	.089	.087	.085	.083
37	.603	.558	.460	.395	.349	.242	.159	.135	.125	.125	.125	.125	.125	.111	.109	.097	.091	.089	.087	.085
38	.609	.567	.466	.403	.355	.248	.167	.135	.125	.125	.125	.125	.125	.113	.111	.103	.097	.091	.089	.087
39	.615	.575	.472	.409	.363	.254	.175	.135	.125	.125	.125	.125	.125	.115	.113	.107	.101	.097	.091	.089
40	.621	.583	.478	.415	.371	.262	.181	.137	.125	.125	.125	.125	.125	.117	.115	.111	.103	.101	.097	.091

TOTAL OBSERVATIONS 496

TABLE 1.10.b. P(W ≥ W\*) I LAUNCH OPPORTUNITIES IN J PERIODS (W\* = 70 M/SEC).  
BASED ON MAXIMUM WIND SPEEDS IN THE 10-15 KM LAYER OVER CAPE KENNEDY, FLORIDA.  
PERIOD OF RECORD JANUARY 1956 - DECEMBER 1963.

CAPE KENNEDY, FLORIDA JANUARY

SPEEDS GREATER THAN OR EQUAL TO 075 MPS

PC ( I CONSECUTIVE SUCCESSES IN J PERIODS )

J	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
1	.060																			
2	.085	.036																		
3	.109	.052	.020																	
4	.129	.071	.028	.012																
5	.149	.087	.038	.018	.006															
6	.165	.099	.048	.026	.010	.002														
7	.181	.109	.056	.034	.016	.004	.000													
8	.198	.119	.060	.042	.022	.008	.000	.000												
9	.212	.129	.065	.050	.028	.012	.002	.000	.000											
10	.226	.139	.069	.054	.034	.016	.004	.000	.000	.000										
11	.240	.149	.073	.058	.040	.020	.006	.000	.000	.000	.000									
12	.254	.159	.077	.063	.046	.024	.008	.000	.000	.000	.000	.000								
13	.264	.169	.081	.067	.052	.028	.010	.000	.000	.000	.000	.000	.000							
14	.272	.179	.085	.071	.058	.032	.012	.000	.000	.000	.000	.000	.000	.000						
15	.278	.190	.089	.075	.065	.036	.014	.000	.000	.000	.000	.000	.000	.000	.000					
16	.284	.196	.093	.079	.071	.040	.016	.000	.000	.000	.000	.000	.000	.000	.000	.000				
17	.290	.202	.097	.083	.077	.044	.018	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000			
18	.296	.208	.099	.087	.081	.048	.020	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000		
19	.302	.214	.101	.091	.085	.052	.022	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	
20	.308	.220	.103	.095	.089	.054	.024	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
21	.315	.226	.105	.099	.093	.056	.026	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
22	.323	.232	.107	.103	.097	.058	.028	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
23	.331	.240	.109	.107	.101	.060	.030	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
24	.339	.248	.111	.109	.104	.063	.032	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
25	.347	.256	.113	.111	.109	.065	.034	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
26	.355	.264	.115	.113	.111	.067	.036	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
27	.363	.272	.117	.115	.113	.069	.038	.002	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
28	.371	.280	.119	.117	.115	.071	.040	.004	.002	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
29	.379	.286	.121	.119	.117	.073	.042	.006	.004	.002	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
30	.387	.292	.123	.121	.119	.075	.044	.008	.006	.004	.002	.000	.000	.000	.000	.000	.000	.000	.000	.000
31	.395	.298	.125	.123	.121	.077	.046	.010	.008	.006	.004	.002	.000	.000	.000	.000	.000	.000	.000	.000
32	.403	.304	.125	.125	.123	.079	.048	.012	.010	.008	.006	.004	.002	.000	.000	.000	.000	.000	.000	.000
33	.411	.310	.125	.125	.125	.081	.050	.014	.012	.010	.008	.006	.004	.002	.000	.000	.000	.000	.000	.000
34	.419	.317	.125	.125	.125	.083	.052	.016	.014	.012	.010	.008	.006	.004	.000	.000	.000	.000	.000	.000
35	.425	.323	.125	.125	.125	.085	.054	.018	.016	.014	.012	.010	.008	.006	.000	.000	.000	.000	.000	.000
36	.431	.329	.125	.125	.125	.087	.056	.020	.018	.016	.014	.012	.010	.008	.000	.000	.000	.000	.000	.000
37	.438	.335	.125	.125	.125	.089	.058	.022	.020	.018	.016	.014	.012	.010	.000	.000	.000	.000	.000	.000
38	.444	.341	.125	.125	.125	.091	.060	.024	.022	.020	.018	.016	.014	.012	.000	.000	.000	.000	.000	.000
39	.450	.347	.125	.125	.125	.093	.063	.026	.024	.022	.020	.018	.016	.014	.000	.000	.000	.000	.000	.000
40	.456	.353	.125	.125	.125	.095	.065	.028	.026	.024	.022	.020	.018	.016	.000	.000	.000	.000	.000	.000

TOTAL OBSERVATIONS 496

TABLE 1.11.a. P(W ≥ W\*) I CONSECUTIVE LAUNCH OPPORTUNITIES IN J PERIODS (W\* = 75 M/SEC).

BASED ON MAXIMUM WIND SPEEDS IN THE 10-15 KM LAYER OVER CAPE KENNEDY, FLORIDA.

PERIOD OF RECORD JANUARY 1956 - DECEMBER 1963.

CAPE KENNEDY, FLORIDA JANUARY  
SPEEDS GREATER THAN OR EQUAL TO 075 MPS

P ( I SUCCESSES IN J PERIODS )

J	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
1	.060																			
2	.085	.036																		
3	.109	.054	.020																	
4	.129	.075	.032	.012																
5	.149	.087	.048	.024	.006															
6	.165	.101	.052	.044	.016	.002														
7	.181	.111	.058	.048	.038	.010	.000													
8	.198	.121	.063	.054	.044	.032	.004	.000												
9	.212	.133	.067	.058	.052	.038	.024	.002	.000											
10	.226	.143	.073	.063	.054	.048	.030	.018	.000	.000										
11	.240	.153	.077	.069	.060	.052	.042	.024	.010	.000	.000									
12	.254	.163	.081	.075	.065	.056	.048	.036	.014	.006	.000	.000								
13	.264	.177	.085	.079	.071	.060	.054	.042	.026	.010	.002	.000	.000							
14	.272	.188	.095	.083	.075	.067	.058	.048	.032	.024	.004	.000	.000	.000						
15	.278	.196	.105	.091	.079	.071	.065	.052	.036	.030	.018	.000	.000	.000	.000					
16	.284	.202	.113	.097	.089	.075	.069	.058	.038	.034	.024	.012	.000	.000	.000	.000				
17	.290	.208	.121	.099	.097	.085	.073	.063	.042	.034	.028	.018	.010	.000	.000	.000	.000			
18	.296	.214	.129	.101	.099	.095	.083	.067	.046	.040	.032	.022	.014	.008	.000	.000	.000	.000	.000	
19	.302	.220	.137	.103	.101	.099	.093	.077	.050	.042	.038	.026	.018	.010	.006	.000	.000	.000	.000	.000
20	.308	.226	.145	.105	.103	.101	.099	.089	.058	.044	.042	.032	.024	.012	.008	.004	.000	.000	.000	.000
21	.315	.232	.151	.107	.105	.103	.101	.097	.073	.044	.044	.038	.030	.018	.010	.006	.002	.000	.000	.000
22	.323	.238	.157	.109	.107	.105	.103	.099	.083	.063	.046	.040	.038	.024	.016	.008	.004	.000	.000	.000
23	.331	.246	.163	.111	.109	.107	.105	.101	.087	.073	.058	.042	.040	.036	.020	.014	.006	.000	.000	.000
24	.339	.254	.169	.113	.111	.109	.107	.103	.091	.077	.069	.052	.042	.040	.032	.018	.012	.000	.000	.000
25	.347	.262	.175	.115	.113	.111	.109	.105	.095	.081	.073	.063	.050	.042	.038	.030	.016	.004	.000	.000
26	.355	.270	.181	.117	.115	.113	.111	.107	.099	.085	.075	.071	.058	.048	.042	.036	.028	.008	.002	.000
27	.363	.276	.190	.119	.117	.115	.113	.109	.103	.089	.077	.075	.069	.054	.046	.042	.034	.022	.004	.000
28	.371	.282	.194	.125	.119	.117	.115	.111	.107	.093	.079	.077	.075	.067	.050	.044	.042	.030	.016	.000
29	.379	.290	.198	.129	.123	.119	.117	.113	.111	.097	.081	.079	.077	.075	.063	.046	.044	.042	.022	.010
30	.387	.296	.202	.133	.127	.121	.119	.115	.113	.103	.083	.081	.079	.077	.073	.056	.046	.044	.036	.014
31	.395	.302	.206	.135	.131	.123	.121	.117	.115	.107	.087	.083	.081	.079	.077	.067	.054	.046	.038	.030
32	.403	.308	.210	.137	.133	.125	.123	.119	.117	.111	.091	.085	.083	.081	.079	.073	.063	.052	.040	.034
33	.411	.315	.216	.137	.135	.125	.125	.121	.119	.115	.095	.087	.085	.083	.081	.075	.073	.063	.044	.038
34	.419	.321	.222	.137	.135	.125	.125	.123	.121	.119	.099	.089	.087	.085	.083	.077	.075	.073	.054	.042
35	.425	.329	.228	.137	.135	.125	.125	.125	.123	.121	.105	.091	.089	.087	.085	.079	.077	.075	.046	.048
36	.431	.335	.236	.137	.135	.125	.125	.125	.125	.123	.107	.097	.091	.089	.087	.081	.079	.077	.073	.063
37	.438	.341	.244	.137	.135	.125	.125	.125	.125	.125	.109	.099	.097	.091	.089	.083	.081	.079	.077	.067
38	.444	.347	.252	.137	.135	.125	.125	.125	.125	.125	.111	.101	.099	.097	.091	.085	.083	.081	.079	.073
39	.450	.353	.260	.137	.135	.125	.125	.125	.125	.125	.113	.103	.101	.099	.097	.087	.085	.083	.081	.075
40	.456	.361	.268	.137	.135	.125	.125	.125	.125	.125	.115	.105	.103	.101	.099	.093	.087	.083	.083	.077

TOTAL OBSERVATIONS 496

TABLE 1.11.b. P(N ≥ W) I LAUNCH OPPORTUNITIES IN J PERIODS (W = 75 M/SEC).  
BASED ON MAXIMUM WIND SPEEDS IN THE 10-15 KM LAYER OVER CAPE KENNEDY, FLORIDA.

PERIOD OF RECORD JANUARY 1956 - DECEMBER 1963.

CAPE KENNEDY, FLORIDA JANUARY

SPEEDS GREATER THAN OR EQUAL TO 80 MPS

PC ( I CONSECUTIVE SUCCESSES IN J PERIODS )

J	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
1	.034																			
2	.054	.014																		
3	.077	.022	.006																	
4	.095	.032	.010	.002																
5	.113	.042	.016	.004	.000															
6	.129	.050	.022	.008	.000	.000														
7	.145	.059	.028	.012	.002	.000	.000													
8	.161	.067	.032	.016	.004	.002	.000	.000												
9	.175	.075	.036	.020	.006	.004	.000	.000	.000											
10	.188	.083	.040	.024	.008	.006	.000	.000	.000	.000										
11	.200	.089	.044	.028	.010	.008	.000	.000	.000	.000	.000									
12	.212	.095	.048	.032	.012	.010	.000	.000	.000	.000	.000	.000								
13	.222	.101	.052	.036	.014	.012	.000	.000	.000	.000	.000	.000	.000							
14	.230	.107	.056	.040	.016	.014	.000	.000	.000	.000	.000	.000	.000	.000						
15	.236	.113	.060	.044	.018	.016	.000	.000	.000	.000	.000	.000	.000	.000	.000					
16	.242	.119	.065	.048	.020	.018	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000				
17	.248	.125	.069	.052	.022	.020	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000			
18	.254	.131	.073	.056	.024	.022	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000		
19	.260	.137	.077	.060	.026	.024	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	
20	.266	.141	.081	.065	.028	.026	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
21	.270	.145	.085	.069	.030	.028	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
22	.276	.149	.089	.073	.032	.030	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
23	.282	.153	.093	.077	.034	.032	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
24	.288	.157	.097	.081	.036	.034	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
25	.294	.161	.101	.085	.038	.036	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
26	.300	.165	.105	.089	.040	.038	.002	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
27	.306	.169	.109	.093	.042	.040	.004	.002	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
28	.313	.173	.113	.097	.044	.042	.006	.004	.002	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
29	.317	.177	.117	.101	.046	.044	.008	.006	.004	.002	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
30	.321	.181	.121	.105	.048	.046	.010	.008	.006	.004	.002	.000	.000	.000	.000	.000	.000	.000	.000	.000
31	.325	.185	.123	.109	.050	.048	.012	.010	.008	.006	.004	.002	.000	.000	.000	.000	.000	.000	.000	.000
32	.329	.188	.125	.113	.052	.050	.014	.012	.010	.008	.006	.004	.002	.000	.000	.000	.000	.000	.000	.000
33	.333	.190	.125	.117	.054	.052	.016	.014	.012	.010	.008	.006	.004	.002	.000	.000	.000	.000	.000	.000
34	.337	.192	.125	.119	.056	.054	.018	.016	.014	.012	.010	.008	.006	.004	.000	.000	.000	.000	.000	.000
35	.341	.194	.125	.121	.058	.056	.020	.018	.016	.014	.012	.010	.008	.006	.000	.000	.000	.000	.000	.000
36	.345	.196	.125	.123	.060	.058	.022	.020	.018	.016	.014	.012	.010	.008	.000	.000	.000	.000	.000	.000
37	.349	.198	.125	.125	.063	.060	.024	.022	.020	.018	.016	.014	.012	.010	.000	.000	.000	.000	.000	.000
38	.353	.200	.125	.125	.065	.063	.026	.024	.022	.020	.018	.016	.014	.012	.000	.000	.000	.000	.000	.000
39	.357	.202	.125	.125	.067	.065	.028	.026	.024	.022	.020	.018	.016	.014	.000	.000	.000	.000	.000	.000
40	.361	.204	.125	.125	.069	.067	.030	.028	.026	.024	.022	.020	.018	.016	.000	.000	.000	.000	.000	.000

TOTAL OBSERVATIONS 476

TABLE 1.12.a. P(W ≥ W\*) I CONSECUTIVE LAUNCH OPPORTUNITIES IN J PERIODS (W\* = 80 M/SEC).

BASED ON MAXIMUM WIND SPEEDS IN THE 10-15 KM LAYER OVER CAPE KENNEDY, FLORIDA.

PERIOD OF RECORD JANUARY 1956 - DECEMBER 1963.

CAPE KENNEDY, FLORIDA JANUARY

SPEEDS GREATER THAN OR EQUAL TO 800 MPS

P ( I SUCCESSSES IN J PERIODS )

J	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
1	.034																			
2	.054	.014																		
3	.077	.022	.006																	
4	.095	.036	.010	.002																
5	.113	.044	.022	.004	.000															
6	.129	.054	.026	.016	.000	.000														
7	.145	.063	.032	.020	.010	.000	.000													
8	.161	.071	.038	.024	.014	.008	.000	.000												
9	.175	.081	.044	.028	.018	.010	.006	.000	.000											
10	.188	.089	.054	.032	.022	.012	.008	.004	.000	.000										
11	.200	.097	.060	.040	.026	.014	.010	.006	.002	.000	.000									
12	.212	.105	.067	.046	.032	.016	.012	.008	.004	.000	.000	.000								
13	.222	.113	.075	.052	.038	.018	.016	.010	.006	.000	.000	.000	.000							
14	.230	.121	.083	.058	.046	.020	.018	.016	.008	.000	.000	.000	.000	.000						
15	.236	.129	.091	.065	.052	.026	.020	.018	.014	.000	.000	.000	.000	.000	.000					
16	.242	.135	.099	.071	.058	.030	.026	.020	.016	.004	.000	.000	.000	.000	.000	.000				
17	.248	.141	.105	.079	.063	.036	.028	.026	.018	.004	.002	.000	.000	.000	.000	.000	.000			
18	.254	.147	.109	.087	.069	.042	.030	.028	.024	.008	.004	.000	.000	.000	.000	.000	.000	.000		
19	.260	.153	.113	.091	.079	.048	.032	.030	.026	.014	.006	.000	.000	.000	.000	.000	.000	.000	.000	
20	.266	.159	.117	.095	.085	.056	.036	.032	.030	.018	.010	.000	.000	.000	.000	.000	.000	.000	.000	.000
21	.270	.165	.121	.099	.089	.063	.042	.036	.032	.024	.014	.000	.000	.000	.000	.000	.000	.000	.000	.000
22	.276	.171	.125	.103	.093	.069	.044	.040	.036	.030	.024	.000	.000	.000	.000	.000	.000	.000	.000	.000
23	.282	.177	.129	.107	.097	.075	.050	.044	.038	.036	.028	.008	.000	.000	.000	.000	.000	.000	.000	.000
24	.288	.183	.133	.109	.103	.081	.054	.048	.040	.038	.036	.010	.008	.000	.000	.000	.000	.000	.000	.000
25	.294	.190	.137	.111	.107	.089	.058	.052	.042	.040	.038	.018	.010	.008	.000	.000	.000	.000	.000	.000
26	.300	.196	.141	.113	.111	.095	.065	.056	.044	.042	.040	.024	.014	.010	.008	.000	.000	.000	.000	.000
27	.306	.202	.145	.115	.113	.103	.071	.060	.046	.044	.042	.030	.018	.012	.010	.008	.000	.000	.000	.000
28	.313	.208	.149	.117	.115	.107	.081	.065	.048	.046	.044	.036	.022	.014	.012	.010	.008	.000	.000	.000
29	.317	.216	.153	.119	.117	.111	.083	.077	.050	.048	.046	.042	.026	.016	.014	.012	.010	.008	.000	.000
30	.321	.224	.157	.121	.119	.113	.087	.081	.060	.050	.048	.046	.032	.018	.016	.014	.012	.010	.008	.000
31	.325	.230	.161	.123	.121	.115	.091	.085	.065	.058	.050	.048	.038	.022	.018	.016	.014	.012	.010	.008
32	.329	.236	.163	.125	.123	.117	.095	.087	.071	.063	.056	.050	.040	.030	.020	.018	.016	.014	.012	.010
33	.333	.242	.165	.125	.125	.119	.099	.089	.073	.071	.060	.054	.042	.034	.026	.020	.018	.016	.014	.012
34	.337	.246	.167	.125	.125	.121	.103	.091	.075	.073	.071	.056	.046	.038	.028	.026	.020	.018	.016	.014
35	.341	.250	.169	.125	.125	.123	.105	.095	.077	.075	.073	.067	.050	.042	.030	.028	.026	.020	.018	.016
36	.345	.254	.171	.125	.125	.125	.107	.097	.081	.077	.075	.069	.063	.046	.032	.030	.028	.026	.020	.018
37	.349	.258	.173	.125	.125	.125	.109	.099	.085	.079	.077	.071	.067	.056	.036	.032	.030	.028	.026	.020
38	.353	.262	.175	.125	.125	.125	.111	.101	.089	.081	.079	.073	.071	.060	.044	.036	.032	.030	.028	.026
39	.357	.266	.177	.125	.125	.125	.113	.103	.093	.083	.081	.075	.073	.067	.048	.042	.036	.032	.030	.028
40	.361	.270	.179	.125	.125	.125	.115	.105	.097	.085	.083	.077	.075	.071	.054	.046	.040	.036	.032	.030

TOTAL OBSERVATIONS 496

TABLE 1.12.b. P(W ≥ W\*) I LAUNCH OPPORTUNITIES IN J PERIODS (W\* = 80 M/SEC).  
 BASED ON MAXIMUM WIND SPEEDS IN THE 10-15 KM LAYER OVER CAPE KENNEDY, FLORIDA.



CAPE KENNEDY , FLORIDA JANUARY

SPEEDS GREATER THAN OR EQUAL TO 085 MPS

PC ( I CONSECUTIVE SUCCESSES IN J PERIODS )

	I																			
J	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
1	.016																			
2	.026	.006																		
3	.038	.010	.002																	
4	.048	.016	.004	.000																
5	.058	.027	.008	.000	.000															
6	.069	.026	.012	.002	.000	.000														
7	.079	.030	.016	.004	.002	.000	.000													
8	.089	.034	.020	.006	.004	.000	.000	.000												
9	.099	.038	.024	.008	.006	.000	.000	.000	.000											
10	.107	.042	.028	.010	.008	.000	.000	.000	.000	.000										
11	.115	.046	.032	.012	.010	.000	.000	.000	.000	.000	.000									
12	.123	.050	.036	.014	.012	.000	.000	.000	.000	.000	.000	.000								
13	.131	.054	.040	.016	.014	.000	.000	.000	.000	.000	.000	.000	.000							
14	.139	.058	.044	.018	.016	.000	.000	.000	.000	.000	.000	.000	.000	.000						
15	.147	.063	.048	.020	.018	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000					
16	.155	.067	.052	.022	.020	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000				
17	.165	.071	.056	.024	.022	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000			
18	.175	.075	.060	.026	.024	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000		
19	.185	.079	.065	.028	.026	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	
20	.194	.083	.069	.030	.028	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
21	.200	.087	.073	.032	.030	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
22	.206	.091	.077	.034	.032	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
23	.212	.095	.081	.036	.034	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
24	.218	.099	.085	.038	.036	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
25	.224	.103	.089	.040	.038	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
26	.230	.107	.093	.042	.040	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
27	.236	.111	.097	.044	.042	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
28	.242	.115	.101	.046	.044	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
29	.248	.119	.105	.048	.046	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
30	.254	.123	.109	.050	.048	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
31	.258	.125	.113	.052	.050	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
32	.262	.125	.117	.054	.052	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
33	.266	.125	.119	.056	.054	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
34	.270	.125	.121	.058	.056	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
35	.274	.125	.123	.060	.058	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
36	.278	.125	.125	.063	.060	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
37	.282	.125	.125	.065	.063	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
38	.286	.125	.125	.067	.065	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
39	.290	.125	.125	.069	.067	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
40	.294	.125	.125	.071	.069	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000

TOTAL OBSERVATIONS 496

TABLE 1.13. a.  $P(W \geq W^*)$  I CONSECUTIVE LAUNCH OPPORTUNITIES IN J PERIODS ( $W^* = 85$  M/SEC).  
 BASED ON MAXIMUM WIND SPEEDS IN THE 10-15 KM LAYER OVER CAPE KENNEDY, FLORIDA.  
 PERIOD OF RECORD JANUARY 1956 - DECEMBER 1963.

CAPF KENNEDY . FLORIDA JANUARY  
 SPEFDS GREATER THAN OR EQUAL TO 085 MPS

P ( I SUCCESSES IN J PERIODS )

I

J	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
1	.016																			
2	.026	.006																		
3	.038	.010	.002																	
4	.048	.018	.004	.000																
5	.058	.022	.012	.000	.000															
6	.069	.026	.016	.006	.000	.000														
7	.079	.030	.020	.008	.006	.000	.000													
8	.089	.034	.024	.010	.008	.004	.000	.000												
9	.099	.038	.028	.012	.010	.006	.002	.000	.000											
10	.107	.044	.032	.014	.012	.008	.004	.000	.000	.000										
11	.115	.048	.038	.016	.014	.010	.006	.000	.000	.000	.000									
12	.123	.052	.044	.018	.016	.012	.008	.000	.000	.000	.000	.000								
13	.131	.056	.050	.020	.018	.016	.010	.000	.000	.000	.000	.000	.000							
14	.139	.060	.054	.024	.020	.018	.016	.000	.000	.000	.000	.000	.000	.000						
15	.147	.065	.058	.026	.024	.020	.018	.004	.000	.000	.000	.000	.000	.000	.000					
16	.155	.069	.063	.028	.026	.024	.020	.006	.002	.000	.000	.000	.000	.000	.000	.000				
17	.165	.073	.067	.030	.028	.026	.024	.008	.004	.000	.000	.000	.000	.000	.000	.000	.000			
18	.175	.077	.071	.032	.030	.028	.026	.012	.006	.000	.000	.000	.000	.000	.000	.000	.000	.000		
19	.185	.081	.075	.034	.032	.030	.028	.016	.008	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	
20	.194	.087	.079	.036	.034	.032	.030	.022	.010	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
21	.200	.091	.085	.038	.036	.034	.032	.026	.016	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
22	.206	.095	.089	.042	.038	.036	.034	.030	.018	.006	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
23	.212	.099	.093	.046	.040	.038	.036	.034	.020	.008	.004	.000	.000	.000	.000	.000	.000	.000	.000	.000
24	.218	.103	.097	.050	.042	.040	.038	.036	.024	.010	.006	.002	.000	.000	.000	.000	.000	.000	.000	.000
25	.224	.107	.101	.054	.044	.042	.040	.038	.026	.014	.010	.004	.000	.000	.000	.000	.000	.000	.000	.000
26	.230	.111	.105	.058	.046	.044	.042	.040	.028	.018	.012	.010	.000	.000	.000	.000	.000	.000	.000	.000
27	.236	.115	.109	.063	.048	.046	.044	.042	.030	.022	.014	.012	.006	.000	.000	.000	.000	.000	.000	.000
28	.242	.119	.113	.067	.050	.048	.046	.044	.032	.026	.016	.014	.008	.006	.000	.000	.000	.000	.000	.000
29	.248	.121	.119	.071	.052	.050	.048	.046	.034	.030	.018	.016	.010	.008	.006	.000	.000	.000	.000	.000
30	.254	.123	.121	.079	.054	.052	.050	.048	.036	.034	.020	.018	.012	.010	.008	.004	.000	.000	.000	.000
31	.258	.125	.123	.083	.060	.054	.052	.050	.038	.036	.024	.020	.014	.012	.010	.008	.002	.000	.000	.000
32	.262	.125	.125	.087	.065	.058	.054	.052	.040	.038	.026	.024	.016	.014	.012	.010	.006	.000	.000	.000
33	.266	.125	.125	.089	.071	.063	.056	.054	.042	.040	.028	.026	.020	.016	.014	.012	.010	.002	.000	.000
34	.270	.125	.125	.091	.073	.071	.058	.056	.044	.042	.030	.028	.024	.018	.016	.014	.012	.006	.000	.000
35	.274	.125	.125	.093	.075	.073	.067	.058	.046	.044	.032	.030	.028	.020	.018	.016	.014	.008	.002	.000
36	.278	.125	.125	.095	.077	.075	.069	.067	.048	.046	.034	.032	.030	.024	.020	.018	.016	.012	.004	.000
37	.282	.125	.125	.097	.079	.077	.071	.069	.056	.048	.036	.034	.032	.026	.024	.020	.018	.014	.010	.000
38	.286	.125	.125	.099	.081	.079	.073	.071	.060	.054	.038	.036	.034	.028	.026	.024	.020	.016	.012	.006
39	.290	.125	.125	.101	.083	.081	.075	.073	.065	.058	.042	.038	.036	.030	.028	.026	.024	.018	.014	.008
40	.294	.125	.125	.103	.085	.083	.077	.075	.069	.063	.046	.040	.038	.032	.030	.028	.026	.022	.016	.010

TOTAL OBSERVATIONS 496

TABLE 1.13.b. P(W ≥ W\*) I LAUNCH OPPORTUNITIES IN J PERIODS (W\* = 85 M/SEC).  
 BASED ON MAXIMUM WIND SPEEDS IN THE 10-15 KM LAYER OVER CAPE KENNEDY, FLORIDA.  
 PERIOD OF RECORD JANUARY 1956 - DECEMBER 1963.

CAPE KENNEDY , FLORIDA FEBRUARY

SPEEDS GREATER THAN OR EQUAL TO 025 MPS

PC ( I CONSECUTIVE SUCCESSES IN J PERIODS )

	I																			
J	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
1	.914																			
2	.949	.878																		
3	.965	.909	.847																	
4	.971	.942	.876	.821																
5	.976	.960	.907	.850	.794															
6	.980	.971	.938	.881	.814	.777														
7	.982	.978	.954	.912	.836	.796	.761													
8	.985	.982	.965	.942	.858	.819	.781	.746												
9	.987	.985	.971	.958	.881	.841	.803	.765	.730											
10	.989	.987	.978	.967	.903	.863	.825	.788	.750	.712										
11	.991	.989	.982	.973	.920	.885	.847	.810	.772	.732	.695									
12	.993	.991	.987	.980	.934	.907	.869	.832	.794	.754	.715	.677								
13	.996	.993	.991	.985	.945	.925	.892	.854	.816	.777	.737	.697	.659							
14	.998	.996	.993	.989	.956	.938	.914	.876	.838	.799	.759	.719	.679	.642						
15	1.00	.998	.996	.993	.965	.949	.931	.898	.861	.821	.781	.741	.701	.662	.624					
16	1.00	1.00	.998	.996	.969	.960	.945	.920	.883	.843	.803	.763	.723	.684	.642	.606				
17	1.00	1.00	1.00	.998	.973	.967	.956	.938	.905	.865	.825	.785	.746	.706	.662	.624	.588			
18	1.00	1.00	1.00	1.00	.978	.971	.965	.951	.927	.887	.847	.808	.768	.728	.681	.644	.604	.573		
19	1.00	1.00	1.00	1.00	.982	.976	.971	.960	.945	.909	.869	.830	.790	.750	.701	.664	.622	.588	.558	
20	1.00	1.00	1.00	1.00	.987	.980	.976	.969	.956	.931	.892	.852	.812	.772	.721	.684	.639	.606	.573	.542
21	1.00	1.00	1.00	1.00	.991	.985	.980	.976	.965	.947	.914	.874	.834	.794	.741	.704	.657	.624	.591	.558
22	1.00	1.00	1.00	1.00	.996	.989	.985	.980	.973	.958	.934	.896	.856	.816	.761	.723	.675	.642	.608	.575
23	1.00	1.00	1.00	1.00	.998	.993	.989	.985	.980	.967	.949	.916	.878	.838	.781	.743	.692	.659	.626	.593
24	1.00	1.00	1.00	1.00	1.00	.998	.993	.989	.985	.976	.960	.936	.898	.861	.801	.763	.710	.677	.644	.611
25	1.00	1.00	1.00	1.00	1.00	1.00	.998	.993	.989	.982	.969	.951	.918	.881	.821	.783	.728	.695	.662	.628
26	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.998	.993	.987	.978	.962	.938	.900	.838	.803	.746	.712	.679	.646
27	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.998	.993	.985	.971	.954	.920	.856	.821	.763	.730	.697	.664
28	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.998	.991	.980	.965	.940	.874	.838	.779	.748	.715	.681
29	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.998	.989	.973	.956	.892	.856	.794	.763	.732	.699
30	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.996	.985	.967	.909	.874	.810	.779	.748	.717
31	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.993	.978	.923	.892	.825	.794	.763	.732
32	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.998	.989	.936	.912	.841	.810	.779
33	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.996	.949	.927	.858	.825	.794
34	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.998	.960	.940	.878	.843	.810
35	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.967	.951	.894	.863	.827
36	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.971	.960	.907	.883	.847
37	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.976	.967	.918	.898	.867
38	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.978	.971	.929	.909	.887
39	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.980	.976	.938	.920	.900
40	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.982	.978	.945	.931	.912

TOTAL OBSERVATIONS 432

TABLE 2. 1. a. P(W ≥ W\*) I CONSECUTIVE LAUNCH OPPORTUNITIES IN J PERIODS (W\* = 25 M/SEC).  
 BASED ON MAXIMUM WIND SPEEDS IN THE 10-15 KM LAYER OVER CAPE KENNEDY, FLORIDA.  
 PERIOD OF RECORD JANUARY 1956 - DECEMBER 1963.

CAPF KENNEDY, FLORIDA FEBRUARY  
 SPEEDS GREATER THAN OR EQUAL TO 025 MPS

P ( I SUCCESSSES IN J PERIODS )

J	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
1	.914																			
2	.949	.878																		
3	.965	.931	.847																	
4	.971	.958	.914	.821																
5	.976	.969	.949	.898	.794															
6	.980	.973	.967	.938	.878	.777														
7	.982	.980	.971	.960	.927	.863	.761													
8	.985	.982	.980	.967	.954	.916	.850	.746												
9	.987	.985	.982	.980	.960	.949	.905	.836	.730											
10	.989	.987	.985	.982	.978	.956	.947	.896	.823	.717										
11	.991	.989	.987	.985	.980	.978	.951	.936	.889	.809	.695									
12	.993	.991	.989	.987	.982	.980	.978	.945	.931	.981	.794	.677								
13	.996	.993	.991	.989	.985	.982	.980	.976	.940	.925	.874	.781	.659							
14	.998	.996	.993	.991	.987	.985	.982	.980	.973	.936	.918	.867	.768	.642						
15	1.00	.998	.996	.993	.989	.987	.985	.982	.980	.971	.929	.912	.861	.754	.624					
16	1.00	1.00	.998	.996	.991	.989	.987	.985	.982	.980	.969	.923	.907	.854	.739	.606				
17	1.00	1.00	1.00	.998	.993	.991	.989	.987	.985	.982	.980	.965	.916	.903	.843	.728	.588			
18	1.00	1.00	1.00	1.00	.996	.993	.991	.989	.987	.985	.982	.980	.960	.912	.894	.836	.715	.573		
19	1.00	1.00	1.00	1.00	.998	.996	.993	.991	.989	.987	.985	.982	.980	.958	.905	.887	.827	.704	.558	
20	1.00	1.00	1.00	1.00	1.00	.998	.996	.993	.991	.989	.987	.985	.982	.980	.956	.898	.881	.819	.692	.542
21	1.00	1.00	1.00	1.00	1.00	1.00	.998	.996	.993	.991	.989	.987	.985	.982	.980	.954	.892	.872	.812	.681
22	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.998	.996	.993	.991	.989	.987	.985	.982	.980	.951	.885	.863	.805
23	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.998	.996	.993	.991	.989	.987	.985	.982	.980	.949	.878	.854
24	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.998	.996	.993	.991	.989	.987	.985	.982	.980	.947	.869
25	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.998	.996	.993	.991	.989	.987	.985	.982	.980	.942
26	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.998	.996	.993	.991	.989	.987	.985	.982	.980
27	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.998	.996	.993	.991	.989	.987	.985	.982
28	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.998	.996	.993	.991	.989	.987	.985
29	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.998	.996	.993	.991	.989	.987
30	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.998	.996	.993	.991	.989
31	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.998	.996	.993	.991
32	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.998	.996	.993
33	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.998	.996
34	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.998
35	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
36	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
37	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
38	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
39	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
40	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00

TOTAL OBSERVATIONS 452

TABLE 2. 1.b. P(W ≥ W\*) I LAUNCH OPPORTUNITIES IN J PERIODS (W\* = 25 M/SEC).  
 BASED ON MAXIMUM WIND SPEEDS IN THE 10-15 KM LAYER OVER CAPE KENNEDY, FLORIDA.  
 PERIOD OF RECORD JANUARY 1956 - DECEMBER 1963.

CAPE KENNEDY, FLORIDA FEBRUARY  
SPEEDS GREATER THAN OR EQUAL TO 030 MPS

PC ( I CONSECUTIVE SUCCESSES IN J PERIODS )

I

J	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
1	.843																			
2	.878	.808																		
3	.907	.836	.781																	
4	.927	.865	.805	.761																
5	.940	.892	.830	.781	.746															
6	.954	.917	.856	.801	.765	.730														
7	.962	.927	.878	.823	.785	.750	.715													
8	.971	.940	.894	.845	.808	.770	.735	.699												
9	.978	.949	.907	.865	.830	.792	.754	.717	.686											
10	.985	.958	.916	.881	.852	.814	.777	.735	.704	.670										
11	.989	.967	.925	.894	.872	.836	.799	.754	.721	.688	.655									
12	.991	.976	.934	.907	.887	.858	.821	.774	.741	.706	.673	.639								
13	.993	.985	.942	.920	.900	.878	.843	.794	.761	.724	.690	.657	.624							
14	.996	.989	.951	.931	.914	.894	.865	.814	.781	.746	.710	.675	.642	.608						
15	.998	.993	.960	.942	.927	.907	.885	.834	.801	.765	.730	.695	.659	.626	.591					
16	1.00	.998	.967	.954	.938	.920	.900	.854	.821	.785	.750	.715	.679	.644	.608	.573				
17	1.00	1.00	.973	.965	.949	.934	.914	.872	.841	.805	.770	.735	.699	.664	.626	.588	.558			
18	1.00	1.00	.980	.971	.960	.945	.927	.885	.861	.825	.790	.754	.719	.684	.646	.604	.573	.542		
19	1.00	1.00	.985	.978	.969	.956	.940	.898	.878	.845	.810	.774	.739	.704	.666	.622	.588	.558	.527	
20	1.00	1.00	.989	.985	.976	.965	.951	.912	.892	.865	.830	.794	.759	.723	.686	.639	.606	.573	.542	.511
21	1.00	1.00	.993	.989	.982	.973	.960	.925	.905	.883	.850	.814	.779	.743	.706	.657	.624	.591	.558	.527
22	1.00	1.00	.998	.993	.989	.980	.969	.934	.918	.896	.869	.834	.799	.763	.726	.675	.642	.608	.575	.542
23	1.00	1.00	1.00	.998	.993	.987	.978	.942	.929	.909	.887	.854	.819	.783	.746	.692	.659	.626	.593	.560
24	1.00	1.00	1.00	1.00	.998	.993	.985	.951	.938	.920	.900	.874	.838	.803	.765	.710	.677	.644	.611	.577
25	1.00	1.00	1.00	1.00	1.00	.998	.991	.960	.947	.931	.912	.892	.858	.823	.785	.728	.695	.662	.628	.595
26	1.00	1.00	1.00	1.00	1.00	1.00	.998	.969	.956	.940	.923	.903	.878	.843	.805	.746	.712	.679	.646	.613
27	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.978	.965	.949	.934	.914	.894	.863	.825	.763	.730	.697	.664	.631
28	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.985	.973	.960	.942	.925	.905	.881	.845	.781	.748	.715	.681	.648
29	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.987	.980	.969	.954	.936	.916	.896	.863	.799	.765	.732	.699	.666
30	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.989	.985	.976	.965	.947	.927	.907	.881	.814	.783	.750	.717	.684
31	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.991	.987	.980	.971	.958	.940	.918	.898	.830	.799	.768	.735	.701
32	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.993	.989	.985	.976	.967	.951	.931	.909	.847	.814	.783	.752	.719
33	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.996	.991	.987	.980	.971	.960	.945	.923	.865	.832	.799	.768	.737
34	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.998	.993	.989	.985	.976	.967	.954	.936	.878	.850	.816	.783	.752
35	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.996	.991	.987	.980	.971	.960	.947	.927	.869	.834	.801	.768	
36	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.998	.993	.989	.985	.976	.967	.954	.905	.883	.854	.819	.785	
37	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.998	.991	.987	.980	.971	.960	.916	.896	.874	.838	.803		
38	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.998	.993	.989	.985	.976	.967	.925	.907	.887	.858	.823		
39	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.996	.991	.987	.980	.971	.934	.918	.898	.878	.843
40	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.998	.993	.989	.985	.976	.942	.927	.909	.889	.863

TOTAL OBSERVATIONS 452

TABLE 2. 2.a. P(W ≥ W\*) I CONSECUTIVE LAUNCH OPPORTUNITIES IN J PERIODS (W\* = 30 M/SEC).  
BASED ON MAXIMUM WIND SPEEDS IN THE 10-15 KM LAYER OVER CAPE KENNEDY, FLORIDA.  
PERIOD OF RECORD JANUARY 1956 - DECEMBER 1963.

CAPE KENNEDY - FLORIDA FEBRUARY  
 SPEEDS GRFATER THAN OR EQUAL TO 030 MPS

P ( I SUCCESSES IN J PERIODS )

J	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
1	.843																			
2	.878	.808																		
3	.907	.843	.781																	
4	.927	.878	.816	.761																
5	.940	.905	.854	.796	.746															
6	.954	.918	.883	.838	.783	.730														
7	.962	.936	.894	.874	.827	.770	.715													
8	.971	.945	.912	.885	.867	.819	.757	.699												
9	.978	.956	.920	.900	.878	.863	.810	.741	.686											
10	.985	.965	.931	.912	.889	.874	.858	.796	.730	.670										
11	.989	.976	.940	.925	.900	.885	.869	.850	.788	.717	.655									
12	.991	.985	.954	.934	.916	.896	.881	.863	.841	.779	.704	.639								
13	.993	.989	.965	.949	.927	.909	.892	.876	.852	.834	.770	.690	.624							
14	.996	.993	.971	.960	.945	.923	.905	.887	.865	.845	.827	.761	.677	.608						
15	.998	.996	.980	.967	.956	.942	.918	.900	.876	.858	.838	.821	.752	.664	.591					
16	1.00	.998	.985	.978	.962	.954	.940	.914	.889	.869	.852	.832	.814	.743	.648	.573				
17	1.00	1.00	.989	.982	.976	.960	.951	.938	.903	.883	.863	.845	.825	.808	.735	.631	.558			
18	1.00	1.00	.993	.987	.980	.976	.958	.949	.929	.896	.876	.856	.838	.819	.801	.723	.615	.542		
19	1.00	1.00	.996	.993	.985	.980	.976	.956	.942	.925	.889	.869	.850	.832	.812	.792	.715	.600	.527	
20	1.00	1.00	.998	.996	.993	.985	.980	.976	.951	.938	.920	.883	.863	.843	.825	.803	.785	.706	.584	.511
21	1.00	1.00	1.00	.998	.996	.993	.985	.980	.976	.947	.934	.916	.876	.856	.836	.816	.796	.779	.697	.569
22	1.00	1.00	1.00	1.00	.998	.996	.993	.985	.980	.976	.942	.929	.912	.869	.850	.827	.810	.790	.772	.688
23	1.00	1.00	1.00	1.00	1.00	.998	.996	.993	.985	.980	.976	.938	.925	.907	.863	.841	.821	.803	.783	.765
24	1.00	1.00	1.00	1.00	1.00	1.00	.998	.996	.993	.985	.980	.976	.934	.920	.903	.854	.834	.814	.796	.777
25	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.998	.996	.993	.985	.980	.976	.929	.916	.896	.847	.827	.808	.790
26	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.998	.996	.993	.985	.980	.976	.925	.909	.892	.841	.821	.801
27	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.998	.996	.993	.985	.980	.976	.920	.903	.887	.834	.814
28	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.998	.996	.993	.985	.980	.976	.916	.896	.883	.827
29	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.998	.996	.993	.985	.980	.976	.909	.892	.878
30	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.998	.996	.993	.985	.980	.973	.905	.887
31	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.998	.996	.993	.985	.978	.973	.900
32	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.998	.996	.993	.982	.978	.973
33	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.998	.996	.991	.982	.978
34	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.998	.996	.989	.982
35	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.998	.996	.987
36	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.998	.996
37	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.998
38	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
39	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
40	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00

TOTAL OBSERVATIONS 452

TABLE 2. 2.b. P(W ≥ W\*) I LAUNCH OPPORTUNITIES IN J PERIODS (W\* = 30 M/SEC).  
 BASED ON MAXIMUM WIND SPEEDS IN THE 10-15 KM LAYER OVER CAPE KENNEDY, FLORIDA.  
 PERIOD OF RECORD JANUARY 1956 - DECEMBER 1963.

CAPE KENNEDY , FLORIDA FEBRUARY  
SPEEDS GREATER THAN OR EQUAL TO 035 MPS

PC ( I CONSECUTIVE SUCCESSES IN J PERIODS )

	I																			
J	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
1	.781																			
2	.825	.737																		
3	.856	.770	.706																	
4	.887	.803	.737	.679																
5	.909	.834	.768	.706	.657															
6	.927	.863	.801	.732	.684	.635														
7	.940	.883	.830	.761	.710	.659	.615													
8	.949	.900	.856	.790	.739	.684	.637	.595												
9	.958	.912	.874	.816	.768	.710	.659	.617	.575											
10	.967	.920	.889	.843	.796	.737	.684	.639	.597	.553										
11	.973	.929	.900	.863	.823	.763	.708	.664	.619	.571	.535									
12	.978	.938	.912	.881	.850	.790	.732	.688	.644	.588	.553	.518								
13	.982	.947	.923	.894	.869	.814	.757	.712	.668	.608	.571	.535	.500							
14	.987	.954	.934	.907	.887	.838	.781	.737	.692	.628	.591	.553	.518	.482						
15	.991	.960	.945	.918	.900	.858	.803	.761	.717	.648	.611	.573	.535	.498	.465					
16	.996	.967	.954	.929	.914	.876	.825	.785	.741	.668	.631	.593	.555	.513	.478	.449				
17	.998	.973	.962	.940	.925	.889	.843	.808	.765	.688	.650	.613	.575	.531	.491	.460	.436			
18	1.00	.980	.969	.951	.936	.903	.858	.830	.790	.708	.670	.633	.595	.549	.507	.471	.447	.423		
19	1.00	.987	.976	.960	.947	.916	.872	.847	.812	.728	.690	.653	.615	.566	.522	.485	.458	.434	.409	
20	1.00	.991	.982	.969	.956	.929	.885	.863	.834	.748	.710	.673	.635	.584	.538	.498	.471	.445	.420	.396
21	1.00	.996	.989	.978	.955	.940	.898	.876	.852	.768	.730	.692	.655	.602	.553	.511	.485	.458	.431	.407
22	1.00	1.00	.993	.987	.973	.951	.909	.889	.867	.785	.752	.712	.675	.619	.569	.524	.498	.471	.445	.418
23	1.00	1.00	.998	.993	.982	.962	.920	.900	.881	.801	.772	.735	.695	.637	.584	.538	.511	.485	.458	.431
24	1.00	1.00	1.00	.998	.991	.973	.931	.912	.892	.816	.790	.757	.715	.655	.600	.551	.524	.498	.471	.445
25	1.00	1.00	1.00	1.00	.998	.985	.942	.923	.903	.830	.805	.777	.739	.673	.615	.564	.538	.511	.485	.458
26	1.00	1.00	1.00	1.00	1.00	.996	.954	.936	.914	.843	.819	.794	.754	.690	.631	.577	.551	.524	.498	.471
27	1.00	1.00	1.00	1.00	1.00	1.00	.965	.947	.927	.856	.832	.808	.772	.708	.646	.591	.564	.538	.511	.485
28	1.00	1.00	1.00	1.00	1.00	1.00	.973	.958	.940	.872	.845	.821	.788	.726	.662	.604	.577	.551	.524	.498
29	1.00	1.00	1.00	1.00	1.00	1.00	.978	.967	.951	.887	.861	.834	.801	.739	.677	.617	.591	.564	.538	.511
30	1.00	1.00	1.00	1.00	1.00	1.00	.980	.973	.960	.903	.876	.850	.814	.752	.690	.631	.604	.577	.551	.524
31	1.00	1.00	1.00	1.00	1.00	1.00	.982	.978	.967	.914	.892	.865	.830	.763	.704	.642	.617	.591	.564	.538
32	1.00	1.00	1.00	1.00	1.00	1.00	.985	.980	.973	.925	.905	.881	.845	.777	.719	.653	.628	.604	.577	.551
33	1.00	1.00	1.00	1.00	1.00	1.00	.987	.982	.978	.936	.916	.894	.861	.790	.732	.666	.639	.615	.591	.564
34	1.00	1.00	1.00	1.00	1.00	1.00	.989	.985	.980	.947	.927	.907	.874	.803	.746	.681	.653	.626	.602	.577
35	1.00	1.00	1.00	1.00	1.00	1.00	.991	.987	.982	.956	.938	.918	.887	.814	.759	.692	.666	.639	.613	.588
36	1.00	1.00	1.00	1.00	1.00	1.00	.993	.989	.985	.960	.949	.929	.900	.825	.770	.704	.679	.653	.626	.600
37	1.00	1.00	1.00	1.00	1.00	1.00	.996	.991	.987	.965	.958	.940	.912	.836	.781	.715	.688	.666	.639	.613
38	1.00	1.00	1.00	1.00	1.00	1.00	.998	.993	.989	.969	.962	.951	.923	.847	.792	.726	.697	.679	.653	.626
39	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.996	.991	.973	.967	.960	.934	.858	.803	.737	.706	.688	.666	.639
40	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.998	.993	.978	.971	.965	.945	.869	.814	.748	.715	.697	.679	.653

TOTAL OBSERVATIONS 452

TABLE 2. 3.a.  $P(W \geq W_0)$  I CONSECUTIVE LAUNCH OPPORTUNITIES IN J PERIODS ( $W_0 = 35$  M/SEC).  
BASED ON MAXIMUM WIND SPEEDS IN THE 10-15 KM LAYER OVER CAPE KENNEDY, FLORIDA.  
PERIOD OF RECORD JANUARY 1956 - DECEMBER 1963.

CAPF KENNEDY . FLORIDA FEBRUARY  
 SPEEDS GREATER THAN OR EQUAL TO 035 MPS

P ( I SUCCESSES IN J PERIODS )

	I																			
J	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
1	.781																			
2	.825	.737																		
3	.856	.783	.706																	
4	.887	.814	.754	.679																
5	.909	.850	.788	.728	.657															
6	.927	.874	.827	.763	.708	.635														
7	.940	.894	.854	.810	.746	.686	.615													
8	.949	.909	.876	.843	.796	.723	.666	.595												
9	.958	.918	.892	.867	.836	.777	.704	.648	.575											
10	.967	.927	.903	.881	.863	.825	.754	.688	.631	.553										
11	.973	.938	.914	.892	.876	.856	.808	.739	.673	.606	.535									
12	.978	.949	.927	.903	.887	.872	.838	.799	.723	.655	.584	.518								
13	.982	.956	.942	.916	.898	.883	.856	.830	.798	.708	.633	.569	.500							
14	.987	.962	.951	.934	.912	.894	.867	.850	.819	.777	.688	.617	.553	.482						
15	.991	.969	.958	.947	.929	.907	.878	.861	.841	.810	.759	.673	.604	.535	.465					
16	.996	.976	.965	.956	.942	.925	.892	.872	.854	.832	.796	.741	.662	.586	.518	.449				
17	.998	.982	.971	.962	.954	.938	.909	.885	.865	.847	.821	.779	.730	.644	.569	.500	.436			
18	1.00	.987	.980	.969	.960	.951	.925	.900	.878	.858	.838	.805	.768	.715	.633	.551	.485	.423		
19	1.00	.993	.985	.980	.967	.958	.942	.918	.892	.877	.850	.825	.796	.752	.704	.617	.533	.471	.409	
20	1.00	.998	.991	.985	.980	.965	.951	.938	.912	.883	.863	.836	.819	.783	.741	.688	.602	.520	.458	.396
21	1.00	1.00	.998	.989	.985	.980	.960	.947	.934	.903	.874	.850	.830	.808	.774	.730	.666	.593	.507	.445
22	1.00	1.00	1.00	.998	.989	.985	.980	.956	.942	.925	.896	.861	.843	.819	.801	.765	.708	.655	.584	.493
23	1.00	1.00	1.00	1.00	.998	.989	.985	.980	.951	.934	.918	.885	.854	.837	.812	.794	.746	.697	.644	.575
24	1.00	1.00	1.00	1.00	1.00	.998	.989	.985	.980	.942	.927	.907	.881	.843	.825	.805	.774	.737	.688	.633
25	1.00	1.00	1.00	1.00	1.00	1.00	.998	.989	.985	.976	.936	.916	.903	.872	.836	.819	.783	.768	.730	.679
26	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.998	.989	.982	.971	.925	.912	.896	.865	.830	.794	.777	.763	.723
27	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.998	.989	.978	.962	.920	.907	.889	.858	.803	.788	.772	.759
28	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.998	.987	.969	.960	.916	.903	.883	.830	.796	.783	.768
29	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.996	.980	.967	.958	.912	.898	.852	.823	.792	.779
30	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.987	.980	.965	.956	.907	.869	.843	.819	.788
31	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.993	.985	.980	.962	.954	.881	.861	.836	.814
32	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.996	.991	.984	.980	.960	.931	.872	.854	.830
33	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.998	.993	.989	.985	.980	.960	.925	.865	.847
34	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.996	.991	.989	.985	.965	.934	.920	.898
35	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.993	.991	.989	.971	.960	.929	.916
36	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.993	.991	.978	.967	.958	.925
37	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.993	.985	.973	.965	.956
38	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.989	.980	.971	.962
39	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.998	.987	.978	.969
40	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.996	.985	.976	

TOTAL OBSERVATIONS 452

TABLE 2. S.b. P(W ≥ W\*) I LAUNCH OPPORTUNITIES IN J PERIODS (W\* = 35 M/SEC).  
 BASED ON MAXIMUM WIND SPEEDS IN THE 10-15 KM LAYER OVER CAPE KENNEDY, FLORIDA.  
 PERIOD OF RECORD JANUARY 1956 - DECEMBER 1963.



CAPE KENNEDY, FLORIDA FEBRUARY

SPEEDS GREATER THAN OR EQUAL TO 040 MPS

PC ( I CONSECUTIVE SUCCESSES IN J PERIODS )

J	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	
1	.688																				
2	.752	.831																			
3	.792	.684	.580																		
4	.830	.735	.622	.540																	
5	.852	.774	.662	.580	.502																
6	.874	.810	.706	.617	.533	.473															
7	.894	.834	.743	.659	.564	.504	.445														
8	.905	.858	.779	.701	.600	.535	.469	.423													
9	.914	.881	.805	.737	.635	.571	.493	.445	.400												
10	.923	.894	.830	.770	.670	.606	.527	.467	.418	.383											
11	.931	.905	.852	.796	.699	.642	.551	.493	.436	.398	.367										
12	.940	.916	.867	.821	.728	.677	.580	.520	.458	.414	.383	.352									
13	.949	.927	.883	.843	.750	.706	.609	.546	.490	.434	.398	.367	.336								
14	.956	.936	.898	.858	.772	.732	.637	.573	.502	.454	.418	.383	.350	.321							
15	.962	.945	.912	.874	.792	.754	.659	.600	.524	.473	.438	.403	.363	.334	.305						
16	.969	.954	.923	.889	.808	.777	.681	.624	.546	.493	.458	.423	.381	.347	.319	.290					
17	.976	.962	.934	.905	.823	.796	.699	.644	.566	.513	.478	.442	.398	.365	.332	.301	.277				
18	.982	.971	.945	.918	.838	.812	.717	.664	.586	.531	.498	.462	.416	.383	.350	.312	.288	.263			
19	.987	.980	.956	.931	.854	.827	.732	.679	.604	.549	.515	.482	.434	.400	.367	.327	.299	.274	.250		
20	.991	.987	.965	.945	.867	.843	.748	.695	.622	.566	.533	.500	.451	.418	.385	.343	.314	.285	.261	.239	
21	.996	.991	.976	.956	.878	.858	.763	.708	.635	.584	.551	.518	.469	.436	.403	.358	.330	.301	.272	.248	
22	1.00	.996	.985	.969	.887	.872	.779	.721	.648	.602	.569	.535	.487	.454	.420	.374	.345	.316	.285	.257	
23	1.00	1.00	.991	.980	.898	.881	.794	.735	.659	.615	.586	.553	.504	.471	.438	.389	.361	.332	.299	.268	
24	1.00	1.00	.998	.989	.909	.892	.808	.748	.670	.628	.604	.571	.522	.489	.456	.405	.376	.347	.312	.279	
25	1.00	1.00	1.00	.996	.918	.903	.823	.759	.681	.634	.617	.588	.540	.507	.473	.420	.392	.363	.325	.290	
26	1.00	1.00	1.00	.998	.927	.914	.838	.772	.690	.650	.631	.606	.558	.524	.491	.436	.407	.378	.338	.301	
27	1.00	1.00	1.00	1.00	.929	.923	.852	.785	.701	.659	.642	.619	.575	.542	.509	.462	.433	.394	.352	.312	
28	1.00	1.00	1.00	1.00	.931	.927	.865	.799	.712	.670	.650	.633	.593	.560	.527	.467	.438	.409	.365	.323	
29	1.00	1.00	1.00	1.00	.934	.929	.874	.812	.723	.681	.662	.642	.606	.577	.544	.482	.454	.425	.378	.334	
30	1.00	1.00	1.00	1.00	.936	.931	.883	.823	.735	.692	.673	.653	.617	.595	.562	.498	.469	.440	.392	.345	
31	1.00	1.00	1.00	1.00	.938	.934	.890	.832	.746	.704	.684	.664	.626	.606	.580	.513	.485	.456	.405	.356	
32	1.00	1.00	1.00	1.00	.940	.936	.896	.841	.757	.715	.695	.675	.635	.617	.595	.529	.500	.471	.418	.367	
33	1.00	1.00	1.00	1.00	.942	.938	.903	.847	.765	.724	.706	.686	.644	.626	.606	.542	.515	.487	.431	.378	
34	1.00	1.00	1.00	1.00	.945	.940	.909	.854	.774	.737	.717	.697	.653	.635	.617	.555	.529	.502	.445	.389	
35	1.00	1.00	1.00	1.00	.947	.942	.916	.861	.781	.748	.728	.708	.662	.644	.626	.566	.542	.515	.458	.400	
36	1.00	1.00	1.00	1.00	.949	.945	.920	.867	.788	.759	.739	.719	.670	.653	.635	.577	.555	.529	.469	.412	
37	1.00	1.00	1.00	1.00	.951	.947	.925	.874	.794	.764	.750	.730	.679	.662	.644	.586	.566	.542	.480	.420	
38	1.00	1.00	1.00	1.00	.954	.949	.929	.878	.801	.777	.761	.741	.688	.670	.653	.595	.577	.555	.491	.429	
39	1.00	1.00	1.00	1.00	.956	.951	.934	.883	.808	.785	.770	.752	.697	.679	.662	.604	.586	.566	.502	.438	
40	1.00	1.00	1.00	1.00	.958	.954	.938	.887	.814	.794	.779	.763	.706	.688	.670	.613	.595	.577	.513	.447	

TOTAL OBSERVATIONS 452

TABLE 2. 4.2. P(W ≥ W\*) I CONSECUTIVE LAUNCH OPPORTUNITIES IN J PERIODS (W\* = 40 M/SEC).  
 BASED ON MAXIMUM WIND SPEEDS IN THE 10-15 KM LAYER OVER CAPE KENNEDY, FLORIDA.  
 PERIOD OF RECORD JANUARY 1956 - DECEMBER 1963.

CAPE KENNEDY, FLORIDA FEBRUARY  
SPEEDS GREATER THAN OR EQUAL TO 040 MPS

P ( I SUCCESSES IN J PERIODS )

	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
1	.688																			
2	.752	.631																		
3	.792	.706	.540																	
4	.830	.748	.659	.540																
5	.852	.796	.708	.624	.502															
6	.874	.821	.765	.677	.584	.473														
7	.894	.845	.794	.739	.637	.560	.445													
8	.905	.876	.816	.774	.701	.615	.529	.423												
9	.914	.889	.856	.794	.743	.679	.584	.504	.400											
10	.923	.900	.872	.838	.763	.726	.648	.560	.478	.383										
11	.931	.912	.885	.858	.808	.746	.701	.622	.529	.460	.367									
12	.940	.920	.900	.874	.830	.790	.723	.677	.586	.513	.442	.352								
13	.949	.929	.912	.894	.845	.812	.777	.699	.642	.571	.498	.425	.336							
14	.956	.940	.923	.905	.869	.827	.799	.746	.666	.626	.555	.480	.407	.321						
15	.962	.949	.936	.916	.881	.856	.814	.777	.708	.653	.613	.538	.460	.392	.305					
16	.969	.958	.945	.929	.892	.869	.845	.794	.741	.688	.644	.595	.518	.445	.376	.290				
17	.976	.967	.954	.940	.905	.881	.861	.830	.759	.719	.677	.631	.575	.502	.429	.358	.277			
18	.982	.973	.965	.949	.918	.892	.872	.850	.796	.732	.710	.662	.615	.562	.487	.412	.343	.263		
19	.987	.982	.971	.962	.931	.903	.883	.861	.821	.768	.723	.697	.644	.604	.551	.469	.394	.330	.250	
20	.991	.987	.982	.969	.951	.914	.894	.872	.832	.794	.759	.712	.679	.631	.595	.535	.451	.381	.316	.239
21	.996	.991	.987	.982	.962	.934	.905	.883	.843	.805	.768	.748	.697	.664	.622	.580	.520	.440	.367	.301
22	1.00	.996	.991	.987	.980	.949	.923	.894	.854	.816	.799	.781	.730	.684	.643	.606	.564	.513	.429	.350
23	1.00	1.00	.996	.991	.987	.971	.940	.909	.865	.827	.810	.792	.768	.715	.673	.637	.595	.551	.507	.412
24	1.00	1.00	1.00	.996	.991	.980	.967	.929	.878	.836	.823	.803	.79	.759	.699	.657	.626	.582	.540	.493
25	1.00	1.00	1.00	1.00	.996	.987	.976	.960	.900	.845	.832	.819	.790	.772	.748	.679	.646	.613	.571	.524
26	1.00	1.00	1.00	1.00	1.00	.993	.982	.971	.936	.863	.841	.827	.808	.783	.765	.730	.664	.633	.602	.553
27	1.00	1.00	1.00	1.00	1.00	1.00	.989	.980	.949	.894	.858	.836	.816	.803	.777	.754	.715	.646	.622	.584
28	1.00	1.00	1.00	1.00	1.00	1.00	.998	.987	.962	.907	.892	.854	.825	.812	.799	.765	.746	.692	.635	.602
29	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.998	.969	.923	.903	.887	.843	.821	.808	.790	.757	.730	.677	.613
30	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.982	.931	.918	.896	.878	.838	.816	.799	.783	.741	.721	.648
31	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.987	.949	.927	.909	.887	.876	.834	.808	.790	.768	.735	.695
32	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.991	.958	.945	.918	.898	.885	.874	.825	.799	.774	.761	.715
33	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.993	.967	.954	.936	.907	.894	.883	.867	.816	.785	.768	.741
34	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.996	.971	.965	.945	.925	.900	.892	.878	.861	.803	.779	.748
35	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.998	.974	.969	.958	.934	.916	.898	.887	.874	.850	.796	.754
36	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.980	.973	.965	.947	.923	.914	.894	.885	.863	.845	.768
37	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.985	.978	.971	.956	.934	.920	.900	.892	.876	.858	.819
38	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.989	.982	.976	.967	.940	.931	.916	.907	.883	.874	.834
39	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.993	.987	.980	.973	.951	.938	.927	.914	.898	.881	.854
40	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.998	.991	.985	.978	.958	.949	.934	.925	.905	.896	.861

TOTAL OBSERVATIONS 452

TABLE 2. 4.b. P(W ≥ W<sub>0</sub>) I LAUNCH OPPORTUNITIES IN J PERIODS (W<sub>0</sub> = 40 M/SEC),  
BASED ON MAXIMUM WIND SPEEDS IN THE 10-15 KM LAYER OVER CAPE KENNEDY, FLORIDA,  
PERIOD OF RECORD JANUARY 1956 - DECEMBER 1963.

CAPF KENNEDY . FLORIDA FEBRUARY

SPEEDS GREATER THAN OR EQUAL TO 045 MPS

PC ( I CONSECUTIVE SUCCESSES IN J PERIODS )

I

J	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
1	.575																			
2	.644	.509																		
3	.692	.564	.454																	
4	.732	.619	.498	.409																
5	.768	.662	.542	.447	.372															
6	.799	.699	.588	.485	.398	.343														
7	.827	.735	.631	.524	.425	.365	.319													
8	.852	.768	.666	.564	.454	.387	.336	.299												
9	.869	.799	.704	.597	.482	.412	.354	.314	.283											
10	.883	.825	.739	.628	.511	.436	.374	.330	.296	.273										
11	.896	.845	.772	.659	.540	.460	.394	.347	.310	.281	.259									
12	.907	.863	.801	.688	.564	.487	.414	.365	.325	.292	.270	.246								
13	.918	.881	.823	.717	.588	.511	.436	.383	.341	.305	.281	.257	.232							
14	.929	.896	.843	.743	.611	.531	.458	.403	.356	.319	.294	.268	.243	.219						
15	.940	.912	.863	.765	.633	.553	.480	.423	.374	.332	.308	.281	.254	.230	.206					
16	.951	.925	.881	.788	.653	.573	.500	.442	.392	.347	.321	.294	.268	.241	.217	.192				
17	.962	.938	.898	.810	.670	.593	.520	.465	.409	.363	.336	.308	.281	.254	.228	.201	.181			
18	.973	.949	.914	.827	.686	.611	.538	.482	.429	.378	.342	.323	.294	.268	.241	.210	.190	.170		
19	.980	.960	.927	.845	.701	.628	.555	.500	.447	.396	.367	.338	.310	.281	.254	.221	.199	.177	.162	
20	.987	.969	.940	.861	.715	.644	.573	.515	.462	.414	.385	.354	.325	.296	.268	.235	.210	.184	.168	.153
21	.993	.976	.954	.872	.728	.659	.591	.531	.478	.431	.403	.372	.341	.312	.283	.248	.223	.192	.175	.159
22	.998	.982	.967	.883	.741	.675	.606	.546	.491	.447	.420	.389	.358	.327	.299	.263	.237	.204	.181	.166
23	1.00	.989	.976	.894	.752	.690	.622	.562	.504	.462	.438	.407	.376	.345	.314	.279	.250	.215	.180	.173
24	1.00	.993	.985	.905	.763	.706	.637	.575	.518	.476	.454	.425	.394	.363	.332	.294	.263	.226	.199	.181
25	1.00	.996	.991	.914	.774	.719	.653	.588	.531	.489	.469	.442	.412	.381	.350	.312	.277	.237	.208	.190
26	1.00	.998	.993	.920	.785	.732	.668	.602	.542	.502	.482	.458	.429	.398	.367	.330	.292	.248	.217	.199
27	1.00	1.00	.996	.925	.794	.746	.681	.615	.553	.515	.496	.473	.447	.416	.385	.347	.308	.261	.226	.208
28	1.00	1.00	.998	.929	.803	.757	.695	.628	.564	.529	.509	.487	.462	.434	.403	.365	.323	.274	.237	.217
29	1.00	1.00	1.00	.934	.812	.768	.706	.642	.575	.542	.522	.500	.478	.451	.420	.383	.338	.288	.248	.228
30	1.00	1.00	1.00	.938	.821	.779	.717	.653	.586	.555	.535	.513	.491	.467	.438	.400	.354	.301	.259	.239
31	1.00	1.00	1.00	.942	.830	.790	.728	.664	.597	.569	.549	.527	.502	.482	.456	.418	.369	.314	.270	.250
32	1.00	1.00	1.00	.945	.838	.801	.739	.675	.608	.582	.562	.540	.513	.493	.471	.436	.385	.327	.281	.261
33	1.00	1.00	1.00	.947	.847	.812	.750	.686	.619	.595	.575	.553	.524	.504	.485	.454	.400	.341	.292	.272
34	1.00	1.00	1.00	.949	.854	.821	.761	.697	.631	.608	.588	.566	.535	.515	.496	.467	.416	.354	.303	.283
35	1.00	1.00	1.00	.951	.861	.830	.772	.708	.642	.622	.602	.580	.546	.527	.507	.480	.429	.367	.316	.294
36	1.00	1.00	1.00	.954	.867	.836	.781	.719	.653	.635	.615	.593	.558	.538	.518	.491	.440	.378	.325	.305
37	1.00	1.00	1.00	.956	.874	.843	.790	.730	.664	.646	.628	.606	.569	.549	.529	.502	.451	.389	.334	.316
38	1.00	1.00	1.00	.958	.881	.850	.799	.739	.675	.657	.639	.619	.580	.560	.540	.513	.460	.398	.343	.325
39	1.00	1.00	1.00	.960	.887	.856	.808	.748	.686	.668	.650	.631	.591	.571	.551	.524	.469	.407	.352	.334
40	1.00	1.00	1.00	.962	.894	.863	.816	.757	.697	.679	.662	.642	.600	.582	.562	.535	.480	.414	.358	.343

TOTAL OBSERVATIONS 452

TABLE 2. 5.a. P(W ≥ W#) I CONSECUTIVE LAUNCH OPPORTUNITIES IN J PERIODS (W# = 45 M/SEC).

BASED ON MAXIMUM WIND SPEEDS IN THE 10-15 KM LAYER OVER CAPE KENNEDY, FLORIDA.

PERIOD OF RECORD JANUARY 1956 - DECEMBER 1963.

CAPE KENNEDY, FLORIDA FEBRUARY  
 SPEEDS GREATER THAN OR EQUAL TO 045 MPS

P ( I SUCCESSES IN J PERIODS )

I

J	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
1	.575																			
2	.644	.509																		
3	.692	.584	.454																	
4	.732	.635	.533	.409																
5	.768	.679	.591	.487	.372															
6	.799	.719	.635	.546	.442	.343														
7	.827	.754	.677	.586	.511	.405	.319													
8	.852	.792	.710	.631	.546	.482	.367	.299												
9	.869	.825	.752	.662	.593	.513	.449	.336	.283											
10	.883	.847	.794	.701	.626	.555	.487	.414	.314	.270										
11	.896	.863	.823	.746	.668	.582	.531	.454	.385	.296	.259									
12	.907	.881	.845	.774	.717	.617	.558	.493	.429	.361	.285	.246								
13	.918	.894	.867	.799	.750	.666	.593	.515	.471	.409	.341	.274	.232							
14	.929	.907	.881	.827	.777	.701	.642	.549	.487	.458	.389	.325	.261	.219						
15	.940	.920	.894	.841	.812	.728	.679	.597	.513	.471	.447	.367	.312	.248	.206					
16	.951	.931	.909	.854	.825	.768	.706	.642	.555	.493	.460	.438	.343	.299	.235	.192				
17	.962	.942	.920	.872	.838	.781	.750	.673	.593	.533	.480	.451	.420	.325	.285	.219	.181			
18	.973	.954	.931	.885	.856	.794	.763	.723	.622	.566	.522	.469	.440	.400	.312	.270	.206	.170		
19	.980	.967	.945	.896	.872	.812	.777	.737	.679	.588	.555	.513	.456	.431	.381	.296	.254	.192	.162	
20	.987	.973	.962	.909	.883	.832	.792	.750	.695	.646	.577	.546	.502	.445	.420	.363	.279	.243	.181	.153
21	.993	.980	.971	.929	.896	.845	.814	.763	.710	.668	.626	.569	.535	.491	.434	.409	.343	.265	.232	.173
22	.998	.989	.978	.945	.914	.858	.830	.785	.726	.685	.648	.613	.558	.524	.480	.425	.394	.330	.250	.226
23	1.00	.998	.985	.956	.931	.874	.843	.805	.746	.706	.664	.635	.600	.546	.513	.471	.416	.376	.312	.243
24	1.00	1.00	.996	.967	.942	.892	.858	.821	.768	.726	.681	.650	.622	.586	.535	.504	.462	.405	.350	.308
25	1.00	1.00	1.00	.982	.954	.903	.874	.838	.788	.750	.699	.668	.639	.604	.575	.527	.496	.451	.381	.341
26	1.00	1.00	1.00	.993	.969	.914	.883	.854	.810	.774	.723	.684	.657	.617	.593	.569	.518	.487	.425	.374
27	1.00	1.00	1.00	.998	.982	.929	.892	.863	.827	.799	.750	.708	.673	.631	.606	.586	.562	.509	.462	.418
28	1.00	1.00	1.00	1.00	.991	.945	.905	.872	.836	.819	.777	.739	.695	.642	.622	.597	.580	.553	.487	.456
29	1.00	1.00	1.00	1.00	.998	.956	.920	.885	.845	.827	.799	.770	.728	.657	.635	.611	.591	.571	.533	.480
30	1.00	1.00	1.00	1.00	1.00	.967	.929	.905	.856	.836	.812	.790	.763	.688	.648	.624	.604	.582	.555	.524
31	1.00	1.00	1.00	1.00	1.00	.971	.942	.914	.878	.847	.823	.805	.781	.728	.675	.635	.617	.595	.571	.546
32	1.00	1.00	1.00	1.00	1.00	.976	.949	.929	.887	.869	.836	.816	.796	.746	.715	.659	.628	.608	.586	.564
33	1.00	1.00	1.00	1.00	1.00	.980	.956	.938	.903	.878	.858	.830	.808	.761	.732	.704	.648	.619	.602	.577
34	1.00	1.00	1.00	1.00	1.00	.985	.962	.947	.912	.894	.867	.852	.821	.772	.750	.723	.692	.635	.613	.593
35	1.00	1.00	1.00	1.00	1.00	.987	.969	.956	.920	.903	.883	.861	.845	.785	.765	.739	.712	.677	.626	.604
36	1.00	1.00	1.00	1.00	1.00	.989	.976	.965	.929	.912	.892	.876	.854	.810	.779	.759	.723	.699	.666	.615
37	1.00	1.00	1.00	1.00	1.00	.991	.982	.971	.940	.920	.900	.885	.869	.819	.803	.772	.743	.710	.688	.653
38	1.00	1.00	1.00	1.00	1.00	.993	.987	.987	.949	.931	.909	.894	.878	.834	.812	.796	.759	.728	.701	.673
39	1.00	1.00	1.00	1.00	1.00	.996	.991	.985	.940	.945	.918	.903	.887	.843	.827	.805	.785	.743	.717	.690
40	1.00	1.00	1.00	1.00	1.00	.998	.993	.989	.947	.958	.931	.912	.896	.852	.836	.821	.799	.772	.732	.704

TOTAL OBSERVATIONS 452

TABLE 2. 5.b. P(W ≥ W<sub>0</sub>) I LAUNCH OPPORTUNITIES IN J PERIODS (W<sub>0</sub> = 45 M/SEC).  
 BASED ON MAXIMUM WIND SPEEDS IN THE 10-15 KM LAYER OVER CAPE KENNEDY, FLORIDA.  
 PERIOD OF RECORD JANUARY 1956 - DECEMBER 1963.

CAPE KENNEDY, FLORIDA FEBRUARY  
 SPEEDS GREATER THAN OR EQUAL TO 050 MPS

PC ( I CONSECUTIVE SUCCESSSES IN J PERIODS )

	I																			
J	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
1	.462																			
2	.533	.392																		
3	.586	.440	.345																	
4	.631	.489	.385	.308																
5	.670	.531	.425	.334	.281															
6	.710	.571	.465	.361	.301	.259														
7	.746	.602	.500	.387	.321	.272	.243													
8	.777	.635	.533	.416	.341	.285	.257	.228												
9	.801	.668	.564	.442	.365	.299	.270	.241	.212											
10	.816	.699	.595	.471	.392	.316	.283	.254	.223	.197										
11	.832	.728	.624	.496	.416	.336	.301	.268	.235	.208	.181									
12	.847	.750	.653	.518	.440	.358	.321	.285	.246	.219	.190	.168								
13	.863	.772	.679	.540	.462	.378	.343	.305	.261	.230	.199	.175	.157							
14	.878	.794	.701	.560	.485	.396	.365	.325	.279	.246	.208	.181	.162	.148						
15	.894	.814	.723	.577	.507	.414	.383	.345	.296	.263	.221	.188	.166	.153	.137					
16	.909	.834	.746	.591	.524	.431	.400	.363	.314	.281	.237	.199	.170	.157	.144	.131				
17	.923	.854	.765	.604	.540	.447	.418	.378	.330	.299	.252	.212	.179	.162	.148	.135	.122			
18	.936	.869	.785	.617	.553	.462	.434	.394	.345	.314	.268	.226	.190	.170	.153	.139	.126	.113		
19	.949	.883	.803	.631	.566	.476	.449	.407	.358	.330	.283	.239	.201	.181	.162	.144	.131	.117	.104	
20	.958	.896	.819	.644	.580	.489	.465	.420	.372	.345	.299	.252	.212	.192	.173	.153	.135	.122	.108	.095
21	.967	.912	.832	.657	.593	.502	.480	.434	.385	.358	.314	.265	.223	.204	.184	.164	.142	.126	.113	.100
22	.976	.927	.847	.670	.606	.515	.493	.449	.398	.372	.330	.279	.235	.215	.195	.175	.148	.133	.117	.104
23	.980	.942	.863	.684	.619	.529	.507	.462	.414	.385	.343	.292	.246	.226	.206	.186	.155	.139	.124	.108
24	.985	.954	.878	.697	.633	.540	.520	.473	.429	.400	.356	.305	.257	.237	.217	.197	.162	.146	.131	.115
25	.987	.962	.889	.710	.646	.551	.533	.485	.442	.416	.372	.316	.268	.248	.228	.208	.168	.153	.137	.122
26	.989	.969	.900	.719	.659	.562	.544	.496	.456	.431	.387	.330	.279	.259	.239	.219	.175	.159	.144	.128
27	.991	.976	.907	.730	.668	.573	.555	.507	.469	.445	.403	.343	.292	.270	.250	.230	.181	.166	.150	.135
28	.993	.982	.914	.741	.679	.582	.566	.515	.482	.458	.418	.356	.305	.283	.261	.241	.188	.173	.157	.142
29	.996	.987	.920	.752	.690	.593	.575	.524	.496	.471	.431	.369	.319	.296	.274	.252	.195	.179	.164	.148
30	.996	.991	.927	.763	.701	.604	.586	.531	.507	.485	.445	.383	.332	.310	.288	.265	.201	.186	.170	.155
31	.996	.993	.934	.774	.712	.615	.597	.538	.515	.498	.458	.394	.345	.323	.301	.279	.210	.192	.177	.162
32	.996	.993	.940	.785	.723	.626	.608	.544	.524	.507	.471	.405	.358	.336	.314	.292	.219	.201	.184	.168
33	.996	.993	.945	.796	.735	.637	.619	.551	.533	.515	.482	.416	.369	.350	.327	.305	.228	.210	.192	.175
34	.996	.993	.949	.808	.746	.648	.631	.558	.542	.524	.491	.425	.381	.363	.341	.319	.237	.219	.201	.184
35	.996	.993	.954	.819	.757	.659	.642	.564	.551	.533	.500	.434	.389	.374	.354	.332	.246	.228	.210	.192
36	.996	.993	.958	.830	.768	.670	.653	.571	.558	.542	.509	.440	.398	.383	.367	.345	.254	.237	.219	.201
37	.996	.993	.962	.838	.779	.681	.664	.580	.564	.549	.518	.447	.407	.392	.376	.358	.263	.246	.228	.210
38	.996	.993	.967	.847	.790	.692	.675	.588	.573	.555	.524	.454	.414	.400	.385	.369	.272	.254	.237	.219
39	.996	.993	.969	.856	.799	.704	.686	.597	.582	.564	.531	.458	.420	.409	.394	.378	.279	.263	.246	.228
40	.996	.993	.971	.865	.808	.715	.697	.606	.591	.573	.540	.462	.425	.416	.403	.387	.285	.270	.254	.237

TOTAL OBSERVATIONS 492

TABLE 2. G.a. P(W ≥ W\*) I CONSECUTIVE LAUNCH OPPORTUNITIES IN J PERIODS (W\* = 50 M/SEC).  
 BASED ON MAXIMUM WIND SPEEDS IN THE 10-15 KM LAYER OVER CAPE KENNEDY, FLORIDA.  
 PERIOD OF RECORD JANUARY 1956 - DECEMBER 1963.

CAPE KENNEDY, FLORIDA FEBRUARY  
 SPEEDS GREATER THAN OR EQUAL TO 050 MPH

P ( I SUCCESSES IN J PERIODS )

J	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
1	.462																			
2	.533	.392																		
3	.586	.458	.345																	
4	.631	.511	.407	.308																
5	.670	.553	.458	.361	.281															
6	.710	.584	.500	.407	.330	.259														
7	.746	.622	.531	.449	.367	.303	.243													
8	.777	.659	.569	.473	.409	.336	.285	.228												
9	.801	.675	.511	.502	.431	.381	.312	.272	.212											
10	.816	.730	.648	.538	.458	.403	.358	.294	.257	.197										
11	.852	.750	.690	.571	.489	.431	.391	.343	.272	.246	.181									
12	.847	.770	.715	.613	.518	.460	.412	.361	.319	.261	.230	.168								
13	.863	.790	.735	.635	.564	.482	.445	.389	.336	.305	.246	.217	.157							
14	.878	.810	.754	.650	.593	.524	.465	.425	.358	.325	.285	.235	.201	.148						
15	.894	.830	.774	.666	.613	.549	.507	.442	.396	.347	.305	.272	.217	.192	.139					
16	.909	.845	.799	.681	.633	.562	.535	.480	.416	.383	.325	.294	.257	.201	.184	.131				
17	.923	.863	.814	.706	.650	.577	.549	.511	.454	.403	.361	.312	.279	.239	.192	.175	.122			
18	.936	.876	.834	.719	.677	.588	.566	.527	.487	.438	.378	.347	.294	.265	.226	.184	.166	.113		
19	.949	.889	.847	.739	.692	.611	.577	.546	.507	.467	.418	.361	.332	.279	.252	.217	.175	.157	.104	
20	.958	.907	.861	.752	.712	.626	.597	.558	.531	.489	.445	.400	.345	.319	.265	.243	.208	.166	.148	.095
21	.967	.923	.878	.765	.726	.646	.613	.575	.542	.510	.469	.423	.387	.332	.308	.254	.237	.197	.157	.139
22	.976	.938	.894	.783	.739	.662	.631	.591	.558	.531	.502	.445	.407	.374	.321	.296	.248	.228	.186	.148
23	.980	.954	.909	.801	.752	.677	.646	.606	.571	.549	.520	.476	.427	.394	.363	.308	.292	.239	.219	.175
24	.985	.962	.927	.819	.768	.692	.662	.622	.584	.560	.540	.491	.460	.412	.383	.347	.303	.285	.230	.210
25	.987	.971	.936	.841	.783	.710	.677	.637	.597	.571	.551	.515	.476	.442	.403	.363	.341	.296	.279	.221
26	.989	.978	.945	.856	.801	.728	.695	.653	.611	.582	.562	.531	.500	.458	.436	.381	.356	.332	.290	.272
27	.991	.982	.954	.867	.819	.746	.715	.668	.622	.595	.573	.544	.520	.480	.451	.414	.372	.347	.323	.283
28	.993	.987	.958	.883	.830	.766	.735	.686	.633	.606	.586	.558	.535	.500	.471	.429	.405	.361	.336	.316
29	.996	.989	.965	.894	.843	.783	.757	.708	.646	.617	.597	.573	.549	.515	.491	.449	.418	.394	.352	.325
30	.996	.993	.967	.909	.854	.799	.772	.732	.664	.631	.608	.586	.564	.527	.511	.467	.438	.407	.383	.338
31	.996	.993	.973	.918	.869	.814	.788	.750	.684	.648	.619	.600	.577	.540	.522	.491	.454	.427	.394	.372
32	.996	.993	.976	.929	.881	.832	.803	.770	.699	.668	.633	.613	.591	.551	.535	.507	.478	.440	.412	.385
33	.996	.993	.978	.936	.892	.847	.821	.788	.719	.684	.653	.624	.604	.562	.546	.522	.496	.462	.425	.403
34	.996	.993	.980	.942	.898	.863	.836	.810	.732	.708	.668	.642	.613	.573	.558	.533	.513	.482	.442	.418
35	.996	.993	.982	.947	.905	.874	.854	.825	.754	.719	.697	.657	.624	.582	.569	.544	.524	.502	.460	.436
36	.996	.993	.985	.951	.912	.885	.865	.845	.770	.739	.708	.690	.635	.591	.577	.555	.535	.513	.480	.454
37	.996	.993	.987	.956	.918	.894	.876	.858	.790	.754	.726	.701	.668	.600	.586	.564	.546	.524	.491	.473
38	.996	.993	.989	.960	.925	.903	.885	.869	.808	.772	.739	.719	.679	.631	.595	.573	.555	.535	.502	.485
39	.996	.993	.991	.965	.931	.912	.894	.878	.823	.790	.754	.730	.699	.642	.624	.582	.564	.546	.513	.496
40	.996	.993	.991	.971	.938	.920	.903	.887	.836	.810	.768	.743	.712	.662	.635	.608	.573	.555	.527	.507

TOTAL OBSERVATIONS 452

TABLE 2. G.b. P(W ≥ W\*) I LAUNCH OPPORTUNITIES IN J PERIODS (W\* = 50 M/SEC).  
 BASED ON MAXIMUM WIND SPEEDS IN THE 10-15 KM LAYER OVER CAPE KENNEDY, FLORIDA.  
 PERIOD OF RECORD JANUARY 1956 - DECEMBER 1963.

CAPE KENNEDY, FLORIDA FEBRUARY  
SPEEDS GREATER THAN OR EQUAL TO 055 MPS

PC ( I CONSECUTIVE SUCCESSES IN J PERIODS )

	I																			
J	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
1	.365																			
2	.431	.299																		
3	.480	.336	.263																	
4	.524	.374	.288	.241																
5	.562	.403	.312	.263	.219															
6	.600	.434	.334	.285	.237	.199														
7	.635	.460	.352	.305	.254	.217	.179													
8	.668	.482	.369	.327	.270	.235	.195	.162												
9	.701	.504	.387	.345	.288	.250	.210	.175	.146											
10	.730	.529	.405	.365	.305	.268	.223	.188	.155	.135										
11	.754	.553	.425	.385	.321	.285	.239	.199	.164	.144	.124									
12	.779	.575	.445	.407	.336	.305	.254	.212	.170	.153	.133	.113								
13	.803	.595	.465	.429	.354	.321	.270	.226	.179	.159	.142	.119	.104							
14	.823	.615	.480	.451	.372	.336	.285	.239	.188	.168	.148	.126	.106	.100						
15	.843	.635	.496	.469	.392	.352	.296	.252	.197	.177	.157	.131	.108	.102	.095					
16	.861	.653	.511	.485	.407	.369	.308	.265	.206	.186	.166	.137	.111	.104	.097	.091				
17	.876	.668	.527	.500	.423	.383	.321	.274	.215	.195	.175	.144	.115	.106	.100	.093	.086			
18	.892	.681	.542	.515	.436	.396	.330	.285	.223	.204	.184	.150	.119	.111	.102	.095	.088	.082		
19	.905	.695	.555	.531	.456	.409	.338	.294	.232	.212	.192	.157	.124	.115	.106	.097	.091	.084	.077	
20	.920	.708	.569	.546	.473	.425	.347	.303	.241	.221	.201	.164	.128	.119	.111	.102	.093	.086	.080	.073
21	.934	.721	.582	.560	.491	.440	.358	.312	.250	.232	.212	.170	.133	.124	.115	.106	.095	.088	.082	.073
22	.947	.735	.593	.573	.509	.456	.369	.323	.259	.241	.223	.179	.137	.128	.119	.111	.097	.091	.084	.073
23	.958	.748	.604	.586	.522	.471	.381	.334	.270	.250	.232	.188	.144	.133	.124	.115	.100	.093	.086	.073
24	.965	.761	.615	.597	.535	.487	.392	.345	.281	.261	.241	.197	.150	.137	.128	.119	.102	.095	.088	.073
25	.971	.770	.626	.608	.549	.498	.403	.356	.292	.272	.250	.204	.157	.142	.133	.124	.104	.097	.091	.073
26	.978	.779	.635	.619	.562	.509	.414	.367	.303	.283	.259	.210	.164	.146	.137	.128	.106	.100	.093	.073
27	.982	.788	.644	.628	.575	.520	.420	.378	.314	.294	.268	.217	.170	.150	.142	.133	.108	.102	.095	.073
28	.987	.796	.655	.637	.586	.531	.427	.389	.325	.305	.277	.223	.177	.155	.146	.137	.111	.104	.097	.073
29	.989	.805	.666	.648	.597	.540	.434	.396	.336	.316	.285	.230	.184	.159	.150	.142	.113	.106	.100	.073
30	.991	.814	.677	.659	.611	.549	.438	.403	.347	.327	.294	.237	.190	.164	.155	.146	.115	.108	.102	.073
31	.993	.823	.688	.670	.622	.558	.442	.407	.356	.338	.303	.243	.197	.168	.159	.150	.117	.111	.104	.073
32	.996	.832	.699	.681	.633	.566	.447	.412	.363	.350	.312	.250	.204	.173	.164	.155	.119	.113	.106	.073
33	.996	.841	.710	.692	.644	.573	.451	.416	.369	.356	.321	.257	.210	.177	.168	.159	.122	.115	.108	.073
34	.996	.850	.721	.704	.655	.580	.456	.420	.376	.363	.327	.263	.217	.181	.173	.164	.124	.117	.111	.073
35	.996	.858	.732	.715	.666	.586	.460	.425	.383	.369	.332	.268	.223	.186	.177	.168	.126	.119	.113	.073
36	.996	.867	.743	.726	.677	.593	.465	.429	.389	.376	.336	.272	.228	.190	.181	.173	.128	.122	.115	.073
37	.996	.876	.754	.737	.690	.600	.469	.434	.396	.383	.341	.274	.232	.192	.186	.177	.131	.124	.117	.073
38	.996	.885	.765	.748	.701	.608	.473	.438	.403	.389	.345	.277	.237	.195	.188	.181	.133	.126	.119	.073
39	.996	.894	.777	.759	.712	.617	.480	.442	.409	.396	.350	.279	.239	.197	.190	.184	.135	.128	.122	.073
40	.996	.903	.788	.770	.723	.624	.487	.447	.416	.403	.354	.281	.241	.199	.192	.186	.135	.131	.124	.073

TOTAL OBSERVATIONS 452

TABLE 2. 7.a.  $P(W \geq W_0)$  I CONSECUTIVE LAUNCH OPPORTUNITIES IN J PERIODS ( $W_0 = 55$  M/SEC).  
BASED ON MAXIMUM WIND SPEEDS IN THE 10-15 KM LAYER OVER CAPE KENNEDY, FLORIDA.  
PERIOD OF RECORD JANUARY 1956 - DECEMBER 1963.

CAPE KENNEDY, FLORIDA FEBRUARY  
SPEEDS GREATER THAN OR EQUAL TO 055 MPS

P ( I SUCCESSES IN J PERIODS )

	I																			
J	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
1	.365																			
2	.431	.299																		
3	.480	.354	.263																	
4	.524	.392	.308	.241																
5	.562	.431	.332	.288	.219															
6	.600	.458	.365	.308	.270	.199														
7	.635	.485	.387	.338	.288	.257	.179													
8	.668	.511	.412	.358	.316	.272	.241	.162												
9	.701	.538	.431	.385	.332	.301	.257	.223	.146											
10	.730	.571	.451	.407	.354	.319	.283	.237	.206	.135										
11	.754	.602	.478	.427	.378	.336	.303	.261	.215	.195	.124									
12	.779	.628	.498	.456	.400	.356	.321	.281	.235	.201	.186	.113								
13	.803	.653	.515	.473	.434	.376	.341	.299	.250	.217	.192	.175	.104							
14	.823	.681	.531	.489	.456	.405	.361	.321	.263	.230	.206	.184	.159	.100						
15	.843	.704	.551	.504	.471	.429	.389	.343	.281	.239	.219	.195	.170	.148	.095					
16	.861	.726	.569	.520	.489	.445	.416	.374	.299	.254	.228	.206	.184	.159	.139	.091				
17	.876	.746	.588	.533	.504	.467	.431	.403	.332	.265	.241	.212	.195	.173	.150	.131	.086			
18	.892	.763	.604	.549	.518	.482	.458	.418	.365	.292	.250	.223	.201	.184	.164	.139	.124	.082		
19	.905	.783	.617	.562	.533	.496	.473	.449	.385	.323	.272	.232	.210	.190	.175	.153	.131	.117	.077	
20	.920	.799	.635	.573	.549	.509	.489	.462	.425	.338	.303	.254	.219	.199	.181	.166	.139	.124	.111	.073
21	.934	.819	.648	.588	.562	.524	.500	.482	.440	.376	.321	.281	.241	.208	.190	.173	.153	.128	.117	.102
22	.947	.838	.662	.602	.577	.538	.513	.493	.462	.389	.361	.294	.270	.230	.199	.181	.164	.135	.119	.108
23	.958	.861	.675	.615	.591	.553	.524	.507	.478	.405	.378	.334	.279	.261	.221	.190	.173	.146	.122	.111
24	.965	.881	.690	.628	.602	.569	.538	.518	.493	.416	.394	.356	.314	.270	.254	.212	.181	.155	.126	.113
25	.971	.892	.710	.642	.613	.582	.553	.529	.504	.431	.405	.374	.338	.301	.263	.246	.204	.164	.133	.115
26	.978	.903	.726	.659	.624	.595	.569	.540	.515	.447	.416	.389	.356	.325	.290	.254	.239	.186	.137	.119
27	.982	.914	.741	.677	.635	.608	.584	.551	.527	.462	.427	.403	.376	.336	.319	.277	.248	.223	.157	.124
28	.987	.923	.759	.695	.646	.622	.600	.562	.538	.478	.438	.414	.392	.354	.330	.308	.268	.235	.195	.142
29	.989	.934	.774	.715	.657	.633	.615	.575	.551	.493	.449	.423	.405	.367	.345	.321	.299	.252	.206	.181
30	.991	.940	.794	.732	.670	.644	.626	.593	.562	.511	.460	.431	.412	.385	.356	.336	.312	.285	.221	.195
31	.993	.945	.812	.752	.684	.657	.637	.604	.577	.527	.473	.440	.420	.396	.369	.347	.330	.299	.252	.210
32	.996	.949	.825	.774	.697	.670	.650	.615	.586	.546	.487	.449	.429	.405	.385	.358	.341	.319	.263	.241
33	.996	.956	.836	.794	.712	.684	.664	.631	.595	.560	.504	.458	.438	.416	.396	.372	.352	.330	.283	.252
34	.996	.960	.850	.810	.730	.697	.677	.646	.606	.571	.520	.471	.447	.427	.409	.381	.363	.341	.294	.272
35	.996	.965	.861	.825	.746	.712	.690	.662	.617	.584	.531	.485	.460	.438	.420	.394	.369	.354	.303	.283
36	.996	.969	.872	.838	.761	.726	.706	.675	.633	.593	.546	.493	.473	.454	.431	.403	.381	.361	.316	.290
37	.996	.973	.883	.852	.774	.739	.719	.690	.650	.602	.558	.507	.482	.467	.449	.414	.389	.372	.323	.301
38	.996	.978	.892	.865	.788	.752	.730	.704	.666	.617	.569	.518	.493	.476	.462	.434	.400	.381	.334	.305
39	.996	.982	.900	.878	.801	.765	.741	.715	.681	.633	.582	.529	.502	.487	.471	.454	.416	.394	.345	.312
40	.996	.987	.909	.892	.814	.779	.752	.726	.695	.650	.595	.542	.511	.496	.482	.465	.438	.405	.361	.323

TOTAL OBSERVATIONS 492

TABLE 2. 7.b. P(N ≥ W) I LAUNCH OPPORTUNITIES IN J PERIODS (W = 55 M/SEC).  
BASED ON MAXIMUM WIND SPEEDS IN THE 10-15 KM LAYER OVER CAPE KENNEDY, FLORIDA.  
PERIOD OF RECORD JANUARY 1956 - DECEMBER 1963.



CAPE KENNEDY, FLORIDA FEBRUARY

SPEEDS GREATER THAN OR EQUAL TO 060 MPS

PC ( I CONSECUTIVE SUCCESSES IN J PERIODS )

J	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
1	.281																			
2	.343	.217																		
3	.389	.257	.175																	
4	.423	.301	.204	.144																
5	.451	.336	.235	.166	.119															
6	.478	.363	.263	.188	.137	.100														
7	.502	.385	.290	.210	.155	.115	.082													
8	.527	.412	.308	.232	.173	.131	.093	.069												
9	.549	.434	.325	.252	.192	.146	.104	.075	.060											
10	.571	.456	.343	.270	.212	.164	.115	.082	.066	.053										
11	.588	.478	.358	.285	.232	.181	.128	.088	.073	.058	.049									
12	.606	.500	.374	.301	.250	.201	.142	.097	.080	.062	.051	.046								
13	.624	.518	.389	.316	.268	.219	.155	.106	.086	.071	.053	.049	.044							
14	.642	.533	.405	.332	.285	.235	.168	.115	.097	.077	.055	.051	.046	.042						
15	.655	.549	.418	.347	.303	.250	.179	.124	.106	.080	.060	.053	.049	.044	.040					
16	.668	.564	.431	.361	.321	.265	.188	.133	.115	.086	.064	.058	.051	.046	.042	.038				
17	.681	.575	.445	.374	.336	.283	.197	.139	.124	.093	.069	.062	.055	.049	.044	.040	.035			
18	.695	.586	.458	.385	.352	.299	.208	.144	.133	.100	.073	.066	.060	.053	.046	.042	.038	.033		
19	.708	.597	.469	.396	.365	.314	.217	.150	.139	.106	.077	.071	.064	.058	.051	.044	.040	.035	.031	
20	.721	.608	.478	.407	.378	.330	.226	.157	.146	.113	.082	.075	.069	.062	.055	.049	.042	.038	.033	.029
21	.735	.619	.487	.416	.392	.343	.235	.164	.153	.119	.086	.080	.073	.066	.060	.053	.044	.040	.035	.031
22	.748	.631	.496	.423	.405	.356	.243	.170	.159	.126	.091	.084	.077	.071	.064	.058	.046	.042	.038	.033
23	.761	.642	.504	.429	.414	.369	.250	.177	.166	.133	.095	.088	.082	.075	.069	.062	.049	.044	.040	.035
24	.774	.653	.513	.436	.420	.381	.257	.184	.173	.139	.100	.093	.084	.080	.073	.066	.051	.046	.042	.038
25	.788	.664	.522	.442	.427	.389	.263	.190	.179	.146	.104	.097	.086	.082	.077	.071	.053	.049	.044	.040
26	.799	.675	.531	.449	.434	.396	.270	.197	.186	.153	.108	.102	.088	.084	.080	.075	.055	.051	.046	.042
27	.810	.684	.540	.456	.440	.403	.277	.204	.192	.159	.113	.106	.091	.086	.082	.077	.058	.053	.049	.044
28	.821	.692	.544	.462	.447	.409	.281	.210	.199	.166	.117	.111	.093	.088	.084	.080	.058	.055	.051	.046
29	.832	.701	.549	.467	.454	.416	.285	.217	.206	.173	.122	.115	.095	.091	.086	.082	.058	.055	.053	.049
30	.843	.712	.553	.471	.458	.423	.290	.221	.212	.179	.126	.119	.097	.093	.083	.084	.058	.055	.053	.051
31	.854	.723	.558	.476	.462	.427	.294	.226	.219	.186	.131	.124	.100	.095	.091	.086	.058	.055	.053	.051
32	.865	.735	.562	.480	.467	.431	.296	.230	.223	.192	.135	.128	.102	.097	.093	.088	.058	.055	.053	.051
33	.876	.746	.566	.485	.471	.436	.299	.232	.228	.199	.139	.133	.104	.100	.095	.091	.058	.055	.053	.051
34	.885	.757	.571	.487	.476	.440	.301	.235	.230	.206	.144	.137	.106	.102	.097	.093	.058	.055	.053	.051
35	.894	.768	.580	.489	.480	.445	.303	.237	.232	.210	.148	.142	.108	.104	.100	.095	.058	.055	.053	.051
36	.903	.779	.588	.493	.482	.449	.305	.239	.235	.215	.153	.146	.111	.106	.102	.097	.058	.055	.053	.051
37	.912	.790	.597	.498	.487	.454	.308	.241	.237	.219	.157	.150	.113	.108	.104	.100	.058	.055	.053	.051
38	.920	.801	.606	.502	.491	.458	.310	.243	.239	.223	.162	.155	.115	.111	.106	.102	.058	.055	.053	.051
39	.929	.812	.615	.507	.496	.462	.314	.246	.241	.228	.166	.159	.117	.113	.108	.104	.058	.055	.053	.051
40	.938	.823	.624	.511	.500	.467	.319	.248	.243	.232	.170	.164	.119	.115	.111	.106	.058	.055	.053	.051

TOTAL OBSERVATIONS 452

TABLE 2. S.A. P(W ≥ W\*) I CONSECUTIVE LAUNCH OPPORTUNITIES IN J PERIODS (W\* = 60 M/SEC).

BASED ON MAXIMUM WIND SPEEDS IN THE 10-15 KM LAYER OVER CAPE KENNEDY, FLORIDA.

PERIOD OF RECORD JANUARY 1956 - DECEMBER 1963.

CAPE KENNEDY, FLORIDA FEBRUARY  
SPEEDS GREATER THAN OR EQUAL TO 060 MPS

P ( I SUCCESSES IN J PERIODS )

J	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
1	.281																			
2	.343	.217																		
3	.389	.277	.175																	
4	.423	.325	.232	.144																
5	.451	.356	.285	.195	.119															
6	.478	.378	.316	.248	.166	.100														
7	.502	.403	.341	.277	.219	.144	.082													
8	.527	.423	.365	.308	.246	.192	.124	.069												
9	.549	.445	.385	.332	.277	.219	.170	.104	.060											
10	.571	.467	.405	.352	.308	.252	.190	.146	.093	.053										
11	.588	.491	.423	.374	.327	.283	.219	.162	.135	.082	.049									
12	.606	.507	.449	.396	.345	.308	.243	.186	.153	.119	.073	.046								
13	.624	.522	.465	.425	.365	.325	.268	.201	.177	.137	.106	.069	.044							
14	.642	.538	.480	.442	.392	.345	.279	.230	.188	.162	.122	.097	.066	.042						
15	.655	.558	.496	.458	.407	.374	.292	.246	.212	.170	.146	.108	.093	.064	.040					
16	.668	.569	.518	.476	.423	.389	.316	.261	.228	.190	.153	.135	.100	.088	.062	.038				
17	.681	.580	.531	.498	.442	.405	.334	.281	.241	.204	.170	.142	.126	.093	.084	.060	.035			
18	.695	.591	.542	.513	.465	.429	.350	.296	.259	.215	.184	.157	.133	.119	.086	.080	.058	.033		
19	.708	.602	.553	.524	.480	.454	.376	.310	.274	.230	.192	.170	.144	.128	.111	.080	.077	.055	.031	
20	.721	.613	.564	.535	.493	.467	.405	.336	.290	.246	.206	.179	.157	.135	.122	.100	.077	.075	.053	.029
21	.735	.624	.575	.546	.507	.480	.416	.365	.321	.261	.219	.190	.166	.146	.126	.111	.093	.075	.073	.051
22	.748	.635	.586	.558	.518	.496	.425	.381	.350	.292	.230	.204	.177	.155	.133	.115	.104	.086	.073	.071
23	.761	.646	.597	.569	.529	.507	.438	.392	.369	.314	.263	.212	.190	.166	.139	.119	.108	.095	.082	.071
24	.774	.657	.608	.580	.540	.518	.447	.403	.385	.334	.285	.243	.199	.179	.146	.124	.113	.097	.091	.077
25	.788	.668	.619	.591	.551	.529	.456	.414	.394	.354	.303	.263	.230	.188	.157	.128	.117	.100	.093	.086
26	.799	.679	.631	.602	.562	.540	.465	.425	.403	.365	.323	.283	.246	.219	.164	.137	.122	.102	.095	.088
27	.810	.688	.642	.613	.573	.551	.473	.434	.414	.374	.341	.301	.265	.232	.192	.142	.131	.104	.097	.091
28	.821	.697	.650	.624	.584	.562	.482	.442	.420	.387	.350	.323	.283	.248	.210	.166	.135	.111	.100	.093
29	.832	.708	.659	.633	.595	.573	.491	.451	.427	.396	.363	.336	.303	.265	.223	.186	.155	.113	.106	.095
30	.843	.719	.670	.642	.604	.584	.500	.460	.434	.405	.372	.352	.314	.290	.239	.197	.175	.128	.108	.102
31	.854	.730	.679	.653	.613	.593	.509	.469	.440	.414	.381	.361	.330	.301	.268	.210	.181	.148	.122	.104
32	.865	.741	.688	.662	.624	.602	.515	.478	.447	.423	.392	.369	.341	.314	.279	.243	.188	.153	.144	.115
33	.876	.752	.699	.670	.633	.615	.524	.485	.454	.431	.400	.381	.347	.330	.290	.254	.219	.157	.148	.139
34	.885	.765	.710	.679	.642	.624	.540	.493	.458	.440	.409	.387	.356	.338	.308	.263	.232	.181	.153	.144
35	.894	.777	.723	.688	.650	.633	.553	.507	.465	.447	.418	.394	.361	.347	.321	.279	.241	.192	.175	.148
36	.903	.788	.737	.697	.659	.642	.564	.520	.476	.454	.427	.400	.367	.352	.332	.292	.257	.199	.184	.170
37	.912	.799	.750	.706	.668	.650	.575	.533	.485	.462	.436	.409	.374	.358	.336	.305	.272	.210	.190	.177
38	.920	.810	.761	.717	.677	.659	.586	.546	.493	.471	.445	.423	.383	.365	.341	.314	.285	.223	.199	.181
39	.929	.821	.772	.728	.686	.668	.597	.560	.502	.480	.454	.436	.394	.374	.347	.321	.299	.237	.210	.188
40	.938	.832	.783	.739	.695	.677	.608	.571	.513	.489	.462	.447	.407	.383	.356	.330	.305	.250	.221	.199

TOTAL OBSERVATIONS 452

TABLE 2. 8.b. P(W ≥ W\*) I LAUNCH OPPORTUNITIES IN J PERIODS (W\* = 60 M/SEC).  
BASED ON MAXIMUM WIND SPEEDS IN THE 10-15 KM LAYER OVER CAPE KENNEDY, FLORIDA.  
PERIOD OF RECORD JANUARY 1956 - DECEMBER 1963.

CAPF KENNEDY • FLORIDA FEBRUARY

SPEFDS GREATER THAN OR EQUAL TO 070 MPS

PC ( I CONSECUTIVE SUCCESSES IN J PERIODS )

	I																			
J	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
1	.115																			
2	.153	.084																		
3	.179	.100	.066																	
4	.204	.117	.077	.053																
5	.223	.133	.091	.060	.044															
6	.243	.148	.104	.066	.049	.038														
7	.265	.159	.115	.073	.053	.042	.031													
8	.288	.173	.126	.080	.058	.046	.035	.024												
9	.310	.186	.137	.084	.062	.051	.040	.029	.018											
10	.334	.199	.148	.088	.066	.055	.044	.033	.020	.015										
11	.358	.212	.159	.093	.069	.060	.049	.038	.022	.018	.013									
12	.381	.226	.173	.097	.071	.064	.053	.042	.024	.020	.015	.011								
13	.403	.237	.186	.104	.073	.066	.058	.046	.027	.022	.018	.013	.009							
14	.418	.248	.197	.111	.077	.069	.062	.051	.029	.024	.020	.015	.011	.007						
15	.434	.257	.206	.117	.082	.073	.064	.055	.031	.027	.022	.018	.013	.009	.004					
16	.449	.265	.212	.122	.086	.077	.069	.060	.033	.029	.024	.020	.015	.011	.007	.002				
17	.462	.277	.219	.124	.091	.082	.073	.064	.035	.031	.027	.022	.018	.013	.009	.004	.000			
18	.476	.288	.226	.126	.093	.086	.077	.069	.040	.033	.029	.024	.020	.015	.011	.007	.000	.000		
19	.487	.299	.232	.128	.095	.091	.082	.073	.044	.038	.031	.027	.022	.018	.013	.009	.000	.000	.000	
20	.498	.310	.239	.131	.097	.093	.086	.077	.049	.042	.035	.029	.024	.020	.015	.011	.000	.000	.000	.000
21	.509	.321	.248	.133	.100	.095	.091	.082	.053	.046	.040	.031	.027	.022	.018	.013	.000	.000	.000	.000
22	.518	.332	.257	.135	.102	.097	.093	.086	.058	.051	.044	.033	.029	.024	.020	.015	.000	.000	.000	.000
23	.527	.341	.265	.137	.104	.100	.095	.091	.062	.055	.049	.035	.031	.027	.022	.018	.000	.000	.000	.000
24	.535	.350	.274	.139	.106	.102	.097	.093	.066	.060	.053	.038	.033	.029	.024	.020	.000	.000	.000	.000
25	.544	.358	.283	.142	.108	.104	.100	.095	.071	.064	.058	.040	.035	.031	.027	.022	.000	.000	.000	.000
26	.553	.367	.292	.144	.111	.106	.100	.097	.073	.069	.062	.042	.038	.033	.029	.024	.000	.000	.000	.000
27	.562	.376	.301	.146	.113	.108	.104	.100	.075	.071	.066	.044	.040	.035	.031	.027	.000	.000	.000	.000
28	.569	.385	.310	.148	.115	.111	.106	.102	.077	.073	.069	.046	.042	.038	.033	.029	.000	.000	.000	.000
29	.575	.392	.319	.150	.117	.113	.108	.104	.080	.075	.071	.046	.044	.040	.034	.031	.000	.000	.000	.000
30	.582	.398	.325	.153	.119	.115	.111	.106	.082	.077	.073	.046	.044	.042	.038	.033	.000	.000	.000	.000
31	.588	.405	.332	.155	.122	.117	.113	.108	.084	.080	.075	.046	.044	.042	.040	.035	.000	.000	.000	.000
32	.595	.412	.338	.159	.124	.119	.115	.111	.086	.082	.077	.046	.044	.042	.040	.038	.000	.000	.000	.000
33	.604	.416	.343	.164	.126	.122	.117	.113	.088	.084	.080	.046	.044	.042	.040	.038	.000	.000	.000	.000
34	.613	.420	.352	.168	.128	.124	.119	.115	.091	.086	.082	.046	.044	.042	.040	.038	.000	.000	.000	.000
35	.622	.425	.358	.173	.131	.126	.122	.117	.093	.088	.084	.046	.044	.042	.040	.038	.000	.000	.000	.000
36	.631	.431	.365	.177	.133	.128	.124	.119	.095	.091	.086	.046	.044	.042	.040	.038	.000	.000	.000	.000
37	.639	.438	.374	.181	.135	.131	.126	.122	.097	.093	.088	.046	.044	.042	.040	.038	.000	.000	.000	.000
38	.648	.445	.381	.188	.137	.133	.128	.124	.100	.095	.091	.046	.044	.042	.040	.038	.000	.000	.000	.000
39	.657	.451	.387	.195	.142	.135	.131	.126	.102	.097	.093	.046	.044	.042	.040	.038	.000	.000	.000	.000
40	.666	.460	.394	.201	.146	.137	.133	.128	.104	.100	.095	.046	.044	.042	.040	.038	.000	.000	.000	.000

TOTAL OBSERVATIONS 452

TABLE 2.10 a. P(N ≥ n) I CONSECUTIVE LAUNCH OPPORTUNITIES IN J PERIODS (N = 70 M/SEC).  
 BASED ON MAXIMUM WIND SPEEDS IN THE 10-15 KM LAYER OVER CAPE KENNEDY, FLORIDA.  
 PERIOD OF RECORD JANUARY 1956 - DECEMBER 1963.

CAPE KENNEDY , FLORIDA FEBRUARY  
SPEEDS GREATER THAN OR EQUAL TO 065 MPS

P | I SUCCESSES IN J PERIODS :

	I																			
J	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
1	.197																			
2	.248	.144																		
3	.292	.188	.106																	
4	.332	.230	.131	.088																
5	.367	.272	.162	.106	.073															
6	.387	.303	.195	.133	.088	.060														
7	.407	.334	.223	.150	.117	.071	.051													
8	.425	.361	.257	.170	.133	.095	.060	.044												
9	.440	.381	.290	.195	.150	.106	.084	.051	.038											
10	.460	.398	.316	.221	.168	.122	.095	.073	.042	.035										
11	.480	.418	.338	.241	.188	.135	.113	.082	.064	.038	.033									
12	.496	.438	.363	.259	.204	.150	.124	.100	.073	.055	.035	.031								
13	.511	.454	.387	.279	.217	.162	.139	.106	.093	.062	.051	.033	.029							
14	.527	.467	.403	.301	.235	.173	.148	.117	.102	.080	.058	.046	.031	.027						
15	.540	.482	.416	.312	.257	.188	.157	.124	.111	.084	.075	.053	.042	.029	.024					
16	.553	.496	.434	.323	.270	.210	.168	.131	.115	.097	.084	.071	.049	.040	.027	.022				
17	.564	.511	.449	.338	.281	.226	.188	.137	.119	.102	.093	.077	.069	.046	.038	.024	.020			
18	.575	.522	.467	.356	.294	.237	.204	.153	.124	.106	.097	.086	.073	.066	.044	.035	.022	.018		
19	.586	.533	.478	.376	.312	.250	.215	.166	.135	.111	.102	.091	.080	.071	.064	.042	.033	.020	.015	
20	.597	.544	.489	.387	.336	.263	.230	.175	.146	.119	.106	.095	.082	.077	.069	.062	.040	.031	.018	.013
21	.608	.553	.502	.398	.350	.285	.243	.190	.153	.128	.115	.100	.084	.080	.075	.064	.060	.038	.029	.015
22	.619	.562	.511	.414	.361	.299	.265	.204	.164	.135	.122	.108	.086	.082	.077	.071	.060	.058	.035	.027
23	.631	.571	.520	.423	.378	.310	.281	.223	.173	.144	.128	.115	.091	.084	.080	.073	.064	.058	.055	.033
24	.642	.580	.529	.431	.389	.327	.292	.241	.198	.153	.139	.119	.097	.086	.082	.075	.064	.062	.055	.053
25	.653	.588	.538	.440	.400	.341	.308	.254	.204	.164	.146	.128	.102	.091	.084	.077	.064	.062	.060	.053
26	.662	.597	.546	.447	.414	.354	.319	.272	.215	.177	.155	.133	.111	.095	.086	.080	.064	.062	.060	.058
27	.670	.606	.555	.454	.423	.369	.332	.285	.232	.186	.169	.137	.115	.104	.088	.082	.064	.062	.060	.058
28	.679	.613	.564	.460	.431	.381	.345	.303	.246	.201	.177	.146	.119	.111	.093	.084	.064	.062	.060	.058
29	.690	.619	.571	.467	.438	.394	.354	.321	.263	.217	.188	.153	.126	.115	.100	.086	.064	.062	.060	.058
30	.701	.626	.577	.471	.445	.405	.365	.332	.283	.237	.201	.159	.131	.122	.104	.091	.064	.062	.060	.058
31	.712	.633	.584	.476	.449	.412	.381	.343	.296	.250	.219	.168	.135	.126	.111	.095	.064	.062	.060	.058
32	.723	.639	.593	.480	.454	.416	.387	.363	.310	.274	.239	.181	.142	.131	.115	.102	.064	.062	.060	.058
33	.735	.646	.604	.487	.458	.420	.392	.369	.334	.290	.252	.199	.150	.137	.119	.106	.066	.062	.060	.058
34	.746	.653	.613	.498	.462	.425	.396	.374	.343	.316	.268	.210	.166	.144	.124	.111	.066	.064	.060	.058
35	.757	.659	.622	.507	.471	.429	.400	.378	.347	.327	.294	.226	.179	.153	.129	.113	.066	.064	.062	.058
36	.768	.666	.631	.515	.478	.438	.405	.383	.352	.334	.303	.254	.197	.162	.133	.119	.066	.064	.062	.060
37	.779	.673	.637	.527	.487	.445	.414	.387	.356	.343	.312	.265	.228	.175	.139	.124	.066	.064	.062	.060
38	.790	.679	.644	.533	.500	.454	.420	.394	.361	.350	.316	.279	.241	.201	.150	.131	.066	.064	.062	.060
39	.801	.688	.650	.540	.511	.465	.429	.403	.369	.356	.321	.285	.259	.212	.177	.142	.067	.064	.062	.060
40	.812	.697	.659	.546	.520	.478	.438	.409	.376	.363	.325	.292	.265	.232	.186	.168	.073	.066	.062	.060

TOTAL OBSERVATIONS 492

TABLE 3. 9.d.  $P(W \geq W^*)$  I LAUNCH OPPORTUNITIES IN J PERIODS ( $W^* = 65$  M/SEC).  
BASED ON MAXIMUM WIND SPEEDS IN THE 10-15 KM LAYER OVER CAPE KENNEDY, FLORIDA.  
PERIOD OF RECORD JANUARY 1956 - DECEMBER 1963.

CAPE KENNEDY, FLORIDA FEBRUARY  
SPEEDS GREATER THAN OR EQUAL TO 65 MPS

PC ( I CONSECUTIVE SUCCESSES IN J PERIODS )

	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
1	.197																			
2	.248	.144																		
3	.292	.179	.106																	
4	.332	.217	.122	.088																
5	.363	.271	.139	.102	.073															
6	.387	.268	.157	.115	.084	.060														
7	.407	.312	.175	.128	.095	.066	.051													
8	.425	.334	.190	.142	.106	.073	.055	.044												
9	.440	.354	.206	.157	.117	.080	.060	.049	.038											
10	.460	.372	.219	.168	.131	.086	.064	.053	.040	.035										
11	.480	.392	.232	.179	.144	.095	.069	.058	.042	.034	.033									
12	.496	.412	.246	.190	.157	.104	.075	.062	.044	.040	.035	.031								
13	.511	.431	.259	.201	.170	.113	.082	.069	.046	.042	.038	.033	.029							
14	.527	.451	.272	.212	.184	.122	.088	.075	.051	.044			.031	.027						
15	.540	.467	.283	.223	.197	.131	.095	.082	.055	.049	.042	.038	.033	.029	.024					
16	.553	.482	.294	.232	.210	.139	.102	.088	.060	.053	.046	.040	.035	.031	.027	.022				
17	.564	.498	.305	.241	.221	.148	.108	.095	.064	.058	.051	.044	.038	.033	.029	.024	.020			
18	.575	.511	.319	.250	.230	.157	.115	.102	.069	.062	.055	.049	.042	.035	.031	.027	.022	.018		
19	.586	.522	.332	.261	.239	.166	.122	.108	.073	.066	.060	.053	.046	.040	.033	.029	.024	.020	.015	
20	.597	.533	.345	.272	.250	.173	.128	.115	.077	.071	.064	.058	.051	.044	.038	.031	.027	.022	.018	.013
21	.608	.544	.354	.283	.261	.181	.135	.122	.082	.075	.069	.062	.055	.049	.042	.033	.029	.024	.020	.015
22	.619	.555	.363	.292	.272	.190	.142	.128	.086	.080	.073	.066	.060	.053	.046	.035	.031	.027	.022	.018
23	.631	.564	.372	.299	.281	.199	.148	.137	.091	.084	.077	.071	.064	.058	.051	.038	.033	.029	.024	.020
24	.642	.573	.381	.305	.290	.208	.155	.144	.095	.088	.082	.075	.069	.062	.055	.040	.035	.031	.027	.022
25	.653	.582	.389	.312	.296	.217	.142	.150	.100	.093	.086	.080	.073	.066	.060	.042	.038	.033	.029	.024
26	.662	.591	.398	.319	.303	.226	.168	.157	.102	.097	.091	.084	.077	.071	.064	.044	.040	.035	.031	.027
27	.670	.600	.407	.325	.310	.235	.175	.164	.104	.100	.095	.088	.082	.075	.069	.046	.042	.038	.033	.029
28	.679	.608	.416	.332	.316	.243	.181	.170	.106	.102	.097	.093	.086	.080	.073	.049	.044	.040	.035	.031
29	.690	.615	.425	.338	.323	.257	.188	.177	.108	.104	.100	.095	.091	.084	.077	.051	.046	.042	.038	.033
30	.701	.622	.431	.345	.330	.261	.195	.184	.111	.106	.102	.097	.093	.088	.082	.053	.049	.044	.040	.035
31	.712	.628	.438	.350	.336	.270	.201	.190	.113	.108	.104	.100	.095	.091	.086	.055	.051	.046	.042	.038
32	.723	.635	.445	.354	.341	.279	.208	.197	.115	.111	.106	.102	.097	.093	.088	.058	.053	.049	.044	.040
33	.735	.642	.451	.358	.345	.285	.215	.204	.117	.113	.108	.104	.100	.095	.091	.058	.055	.051	.046	.042
34	.746	.650	.458	.363	.350	.292	.219	.210	.119	.115	.111	.106	.102	.097	.093	.058	.055	.053	.049	.044
35	.757	.657	.465	.367	.354	.299	.223	.215	.122	.117	.113	.108	.104	.100	.095	.058	.055	.053	.051	.046
36	.768	.664	.471	.374	.358	.305	.228	.219	.124	.119	.115	.111	.106	.102	.097	.058	.055	.053	.051	.049
37	.779	.670	.478	.378	.365	.312	.232	.223	.126	.122	.117	.113	.108	.104	.100	.058	.055	.053	.051	.049
38	.790	.677	.485	.383	.372	.319	.237	.228	.128	.124	.119	.115	.111	.106	.102	.058	.055	.053	.051	.049
39	.801	.684	.493	.387	.376	.325	.243	.232	.131	.124	.122	.117	.113	.108	.104	.058	.055	.053	.051	.049
40	.812	.692	.502	.392	.381	.332	.250	.237	.133	.128	.124	.119	.115	.111	.106	.058	.055	.053	.051	.049

TOTAL OBSERVATIONS 492

TABLE 2. 9. P(M ≥ W) I CONSECUTIVE LAUNCH OPPORTUNITIES IN J PERIODS (W = 65M/SEC).  
BASED ON MAXIMUM WIND SPEEDS IN THE 10-15 KM LAYER OVER CAPE KENNEDY, FLORIDA.  
PERIOD OF RECORD JANUARY 1956 - DECEMBER 1963.

CAPE KENNEDY, FLORIDA FEBRUARY

SPEEDS GREATER THAN OR EQUAL TO 070 MPS

P ( I SUCCESSES IN J PERIODS )

J	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
1	.119																			
2	.153	.084																		
3	.179	.108	.066																	
4	.204	.131	.084	.053																
5	.223	.157	.097	.066	.044															
6	.243	.173	.122	.071	.058	.038														
7	.265	.188	.137	.084	.060	.053	.031													
8	.288	.206	.153	.088	.071	.055	.049	.024												
9	.310	.223	.168	.093	.073	.066	.051	.044	.018											
10	.334	.241	.184	.100	.075	.069	.062	.046	.038	.015										
11	.358	.261	.199	.104	.082	.071	.064	.058	.040	.035	.013									
12	.381	.277	.219	.108	.084	.080	.066	.060	.051	.038	.033	.011								
13	.403	.292	.232	.119	.086	.082	.077	.062	.053	.046	.035	.031	.009							
14	.418	.310	.246	.126	.093	.084	.080	.075	.055	.049	.042	.033	.029	.007						
15	.434	.325	.259	.133	.097	.088	.082	.077	.071	.051	.044	.040	.031	.027	.004					
16	.449	.341	.277	.142	.102	.093	.084	.080	.073	.069	.046	.042	.038	.029	.024	.002				
17	.462	.356	.288	.150	.108	.097	.086	.082	.075	.071	.066	.044	.040	.035	.027	.022	.000			
18	.476	.369	.305	.159	.115	.102	.088	.084	.077	.073	.069	.064	.042	.035	.033	.024	.018	.000		
19	.487	.383	.321	.175	.122	.106	.091	.086	.080	.075	.071	.066	.062	.040	.035	.031	.020	.015	.000	
20	.498	.394	.334	.190	.133	.113	.093	.088	.082	.077	.073	.069	.064	.060	.038	.033	.027	.018	.013	.000
21	.509	.405	.347	.204	.146	.122	.097	.091	.084	.080	.075	.071	.066	.060	.058	.035	.031	.022	.015	.011
22	.518	.418	.356	.219	.157	.133	.102	.093	.086	.082	.077	.073	.064	.060	.058	.055	.033	.029	.018	.013
23	.527	.429	.367	.230	.170	.144	.106	.095	.088	.084	.080	.075	.071	.060	.058	.055	.053	.031	.024	.015
24	.535	.440	.376	.243	.181	.157	.111	.097	.091	.086	.082	.077	.073	.060	.058	.055	.053	.051	.027	.022
25	.544	.451	.385	.254	.195	.168	.117	.100	.093	.088	.084	.080	.075	.060	.058	.055	.053	.051	.046	.024
26	.553	.462	.394	.265	.206	.181	.124	.102	.095	.091	.086	.082	.077	.060	.058	.055	.053	.051	.049	.042
27	.562	.473	.403	.277	.217	.192	.133	.104	.097	.093	.088	.084	.080	.060	.058	.055	.053	.051	.049	.046
28	.569	.485	.412	.288	.228	.204	.139	.108	.100	.095	.091	.086	.082	.060	.058	.055	.053	.051	.049	.046
29	.575	.493	.420	.299	.239	.215	.148	.111	.104	.097	.093	.088	.084	.060	.058	.055	.053	.051	.049	.046
30	.582	.502	.427	.310	.250	.226	.157	.115	.108	.100	.095	.091	.086	.060	.058	.055	.053	.051	.049	.046
31	.588	.509	.436	.321	.261	.237	.166	.119	.113	.104	.097	.093	.088	.060	.058	.055	.053	.051	.049	.046
32	.595	.513	.442	.336	.272	.248	.175	.124	.117	.108	.102	.095	.091	.060	.058	.055	.053	.051	.049	.046
33	.604	.520	.449	.347	.285	.259	.194	.128	.122	.113	.104	.100	.093	.060	.058	.055	.053	.051	.049	.046
34	.613	.527	.456	.356	.296	.274	.192	.133	.126	.117	.106	.102	.097	.060	.058	.055	.053	.051	.049	.046
35	.622	.535	.460	.365	.305	.288	.206	.137	.131	.122	.108	.104	.100	.062	.058	.055	.053	.051	.049	.046
36	.631	.544	.467	.374	.312	.296	.221	.146	.139	.126	.111	.106	.102	.062	.060	.055	.053	.051	.049	.046
37	.639	.553	.473	.383	.321	.303	.232	.157	.144	.131	.115	.108	.104	.062	.060	.055	.053	.051	.049	.046
38	.648	.562	.482	.392	.332	.310	.239	.164	.156	.139	.119	.111	.106	.062	.060	.058	.055	.051	.049	.046
39	.657	.573	.491	.400	.343	.319	.246	.170	.159	.153	.126	.115	.108	.062	.060	.058	.055	.053	.049	.046
40	.666	.584	.502	.407	.354	.327	.252	.177	.164	.157	.142	.119	.113	.062	.060	.058	.055	.053	.051	.046

TOTAL OBSERVATIONS 492

9.10.b. P(W ≥ W<sub>0</sub>) I LAUNCH OPPORTUNITIES IN J PERIODS (W<sub>0</sub> = 70 M/SEC).

9.10.c. MAXIMUM WIND SPEEDS IN THE 10-15 KM LAYER OVER CAPE KENNEDY, FLORIDA.

PERIOD OF RECORD JANUARY 1956 - DECEMBER 1963.

CAPE KENNEDY - FLORIDA FEBRUARY

SPEEDS GREATER THAN OR EQUAL TO 075 MPS

PC ( I CONSECUTIVE SUCCFSES IN J PERIODS )

J	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	
1	.086																				
2	.108	.064																			
3	.124	.080	.049																		
4	.139	.093	.055	.042																	
5	.150	.104	.060	.049	.035																
6	.162	.115	.064	.053	.042	.029															
7	.173	.124	.066	.058	.046	.035	.022														
8	.184	.133	.069	.062	.051	.040	.029	.015													
9	.195	.139	.071	.064	.055	.044	.033	.018	.013												
10	.208	.146	.073	.066	.060	.049	.038	.020	.015	.011											
11	.221	.155	.075	.069	.062	.053	.042	.022	.018	.013	.009										
12	.232	.164	.077	.071	.064	.058	.046	.024	.020	.015	.011	.007									
13	.243	.173	.080	.073	.066	.060	.051	.027	.022	.018	.013	.009	.004								
14	.254	.181	.082	.075	.069	.062	.055	.029	.024	.020	.015	.011	.007	.002							
15	.265	.190	.086	.077	.071	.064	.058	.031	.027	.022	.018	.013	.009	.004	.000						
16	.277	.199	.088	.082	.073	.066	.060	.033	.029	.024	.020	.015	.011	.007	.000	.000					
17	.285	.205	.091	.086	.077	.069	.062	.035	.031	.027	.022	.018	.013	.009	.000	.000	.000				
18	.294	.212	.093	.088	.082	.073	.064	.038	.033	.029	.024	.020	.015	.011	.000	.000	.000	.000			
19	.303	.219	.095	.091	.086	.077	.069	.040	.035	.031	.027	.022	.018	.013	.000	.000	.000	.000	.000		
20	.314	.226	.097	.093	.086	.082	.073	.042	.038	.033	.029	.024	.020	.015	.000	.000	.000	.000	.000	.000	
21	.325	.235	.100	.095	.091	.086	.077	.044	.040	.035	.031	.027	.022	.018	.000	.000	.000	.000	.000	.000	
22	.334	.243	.102	.097	.093	.088	.082	.046	.042	.038	.033	.029	.024	.020	.000	.000	.000	.000	.000	.000	
23	.343	.250	.104	.100	.095	.091	.086	.049	.044	.040	.035	.031	.027	.022	.000	.000	.000	.000	.000	.000	
24	.352	.257	.106	.102	.097	.093	.088	.051	.046	.042	.038	.033	.029	.024	.000	.000	.000	.000	.000	.000	
25	.361	.263	.108	.104	.100	.095	.091	.053	.049	.044	.040	.035	.031	.027	.000	.000	.000	.000	.000	.000	
26	.369	.270	.111	.106	.102	.097	.093	.055	.051	.046	.042	.038	.033	.029	.000	.000	.000	.000	.000	.000	
27	.378	.277	.113	.108	.104	.100	.095	.055	.053	.049	.044	.040	.035	.031	.000	.000	.000	.000	.000	.000	
28	.387	.283	.115	.111	.106	.102	.097	.055	.053	.051	.046	.042	.038	.033	.000	.000	.000	.000	.000	.000	
29	.394	.290	.117	.113	.108	.104	.100	.055	.053	.051	.049	.044	.040	.035	.000	.000	.000	.000	.000	.000	
30	.400	.296	.119	.115	.111	.106	.102	.055	.053	.051	.049	.046	.042	.038	.000	.000	.000	.000	.000	.000	
31	.407	.303	.122	.117	.113	.108	.104	.055	.053	.051	.049	.046	.044	.040	.000	.000	.000	.000	.000	.000	
32	.414	.310	.124	.119	.115	.111	.106	.055	.053	.051	.049	.046	.044	.042	.000	.000	.000	.000	.000	.000	
33	.425	.316	.126	.122	.117	.113	.108	.055	.053	.051	.049	.046	.044	.042	.000	.000	.000	.000	.000	.000	
34	.436	.323	.128	.124	.119	.115	.111	.055	.053	.051	.049	.046	.044	.042	.000	.000	.000	.000	.000	.000	
35	.447	.330	.131	.126	.122	.117	.113	.055	.053	.051	.049	.046	.044	.042	.000	.000	.000	.000	.000	.000	
36	.456	.338	.133	.128	.124	.119	.115	.055	.053	.051	.049	.046	.044	.042	.000	.000	.000	.000	.000	.000	
37	.465	.347	.137	.131	.126	.122	.117	.055	.053	.051	.049	.046	.044	.042	.000	.000	.000	.000	.000	.000	
38	.473	.354	.142	.135	.128	.124	.119	.055	.053	.051	.049	.046	.044	.042	.000	.000	.000	.000	.000	.000	
39	.482	.361	.146	.139	.133	.126	.122	.055	.053	.051	.049	.046	.044	.042	.000	.000	.000	.000	.000	.000	
40	.493	.367	.150	.144	.137	.128	.124	.055	.053	.051	.049	.046	.044	.042	.000	.000	.000	.000	.000	.000	

TOTAL OBSERVATIONS 452

TABLE 2.11. . P(N ≥ M) I CONSECUTIVE LAUNCH OPPORTUNITIES IN J PERIODS (M = 75 M/SEC).

BASED ON MAXIMUM WIND SPEEDS IN THE 10-15 KM LAYER OVER CAPE KENNEDY, FLORIDA.

PERIOD OF RECORD JANUARY 1956 - DECEMBER 1963.

CAPE KENNEDY, FLORIDA FEBRUARY  
SPEEDS GREATER THAN OR EQUAL TO 075 MPS

P ( I SUCCESSFUL IN J PERIODS )

	I																			
J	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
1	.086																			
2	.108	.064																		
3	.124	.084	.049																	
4	.139	.095	.062	.042																
5	.150	.111	.064	.058	.035															
6	.162	.119	.073	.060	.053	.029														
7	.173	.126	.080	.066	.055	.049	.022													
8	.184	.133	.082	.073	.062	.051	.044	.015												
9	.195	.139	.084	.075	.069	.058	.046	.035	.013											
10	.208	.146	.084	.080	.071	.064	.053	.038	.033	.011										
11	.221	.155	.084	.082	.075	.066	.060	.044	.035	.031	.009									
12	.232	.166	.084	.082	.080	.071	.062	.053	.040	.033	.029	.007								
13	.243	.175	.088	.082	.080	.077	.066	.055	.049	.035	.031	.027	.004							
14	.254	.184	.093	.084	.080	.077	.075	.060	.051	.047	.033	.029	.024	.002						
15	.265	.192	.097	.086	.082	.077	.075	.071	.055	.044	.040	.031	.027	.022	.000					
16	.277	.201	.102	.088	.084	.080	.075	.071	.069	.049	.042	.038	.029	.024	.018	.000				
17	.285	.210	.106	.091	.086	.082	.077	.071	.069	.066	.044	.040	.035	.027	.022	.013	.000			
18	.294	.217	.113	.093	.088	.084	.080	.073	.069	.066	.062	.042	.038	.033	.024	.018	.011	.000		
19	.303	.223	.119	.095	.091	.086	.082	.075	.071	.066	.064	.060	.040	.035	.031	.020	.015	.009	.000	
20	.314	.230	.126	.097	.093	.088	.084	.077	.073	.066	.064	.062	.058	.038	.033	.027	.018	.013	.007	.000
21	.325	.241	.133	.100	.095	.091	.086	.080	.075	.066	.064	.062	.060	.055	.035	.031	.022	.015	.011	.004
22	.334	.252	.139	.102	.097	.093	.088	.082	.077	.066	.064	.062	.060	.058	.053	.033	.029	.018	.013	.009
23	.343	.261	.146	.104	.100	.095	.091	.084	.080	.066	.064	.062	.060	.058	.055	.051	.031	.024	.015	.011
24	.352	.270	.153	.106	.102	.097	.093	.086	.082	.066	.064	.062	.060	.058	.055	.053	.049	.027	.022	.013
25	.361	.279	.159	.108	.104	.100	.095	.088	.084	.066	.064	.062	.060	.058	.055	.053	.051	.044	.024	.020
26	.369	.286	.166	.111	.106	.102	.097	.091	.086	.066	.064	.062	.060	.058	.055	.053	.051	.044	.040	.022
27	.378	.296	.173	.113	.108	.104	.100	.093	.088	.066	.064	.062	.060	.058	.055	.053	.051	.049	.046	.035
28	.387	.305	.179	.115	.111	.106	.102	.095	.091	.066	.064	.062	.060	.058	.055	.053	.051	.049	.046	.044
29	.394	.314	.188	.117	.113	.108	.104	.097	.093	.066	.064	.062	.060	.058	.055	.053	.051	.049	.044	.044
30	.400	.323	.197	.119	.115	.111	.106	.100	.095	.066	.064	.062	.060	.058	.055	.053	.051	.049	.046	.044
31	.407	.332	.206	.124	.117	.113	.108	.102	.097	.066	.064	.062	.060	.058	.055	.053	.051	.049	.046	.044
32	.414	.341	.215	.128	.119	.115	.111	.104	.100	.066	.064	.062	.060	.058	.055	.053	.051	.049	.046	.044
33	.425	.350	.221	.133	.122	.117	.113	.106	.100	.066	.064	.062	.060	.058	.055	.053	.051	.049	.046	.044
34	.436	.358	.228	.137	.124	.119	.115	.108	.104	.066	.064	.062	.060	.058	.055	.053	.051	.049	.046	.044
35	.447	.369	.235	.142	.126	.122	.117	.111	.106	.066	.064	.062	.060	.058	.055	.053	.051	.049	.046	.044
36	.456	.383	.243	.144	.128	.124	.119	.113	.108	.066	.064	.062	.060	.058	.055	.053	.051	.049	.046	.044
37	.465	.392	.257	.153	.133	.126	.122	.115	.111	.066	.064	.062	.060	.058	.055	.053	.051	.049	.046	.044
38	.473	.403	.265	.164	.139	.128	.124	.117	.113	.066	.064	.062	.060	.058	.055	.053	.051	.049	.046	.044
39	.482	.414	.274	.170	.150	.133	.126	.119	.115	.066	.064	.062	.060	.058	.055	.053	.051	.049	.046	.044
40	.493	.423	.283	.177	.157	.144	.128	.122	.117	.066	.064	.062	.060	.058	.055	.053	.051	.049	.046	.044

TOTAL OBSERVATIONS 492

TABLE 2.11.b. P(N ≥ W) I LAUNCH OPPORTUNITIES IN J PERIODS (W = 75 M/SEC).  
BASED ON MAXIMUM WIND SPEEDS IN THE 10-15 KM LAYER OVER CAPE KENNEDY, FLORIDA.  
PERIOD OF RECORD JANUARY 1956 - DECEMBER 1963.



CAPE KENNEDY . FLORIDA FEBRUARY  
SPEEDS GREATER THAN OR EQUAL TO 080 MPS

PC ( I CONSECUTIVE SUCCESSES IN J PERIODS )

	I																			
J	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
1	.066																			
2	.084	.049																		
3	.097	.060	.038																	
4	.108	.069	.044	.031																
5	.119	.075	.049	.035	.027															
6	.128	.080	.053	.038	.031	.022														
7	.135	.084	.058	.040	.033	.027	.011													
8	.142	.086	.060	.042	.035	.029	.020	.015												
9	.148	.086	.062	.044	.038	.031	.022	.018	.013											
10	.157	.086	.064	.046	.040	.033	.024	.020	.015	.011										
11	.166	.088	.066	.049	.042	.035	.027	.022	.018	.013	.009									
12	.175	.091	.069	.051	.044	.038	.029	.024	.020	.015	.011	.007								
13	.184	.093	.071	.053	.046	.040	.031	.027	.022	.018	.013	.009	.004							
14	.192	.095	.073	.055	.049	.042	.033	.029	.024	.020	.015	.011	.007	.002						
15	.201	.097	.077	.058	.051	.044	.035	.031	.027	.022	.018	.013	.009	.004	.000					
16	.210	.107	.082	.062	.053	.046	.038	.033	.029	.024	.020	.015	.011	.007	.000	.000				
17	.217	.102	.084	.066	.058	.049	.040	.035	.031	.027	.022	.018	.013	.009	.000	.000	.000			
18	.223	.104	.076	.071	.062	.053	.042	.038	.033	.029	.024	.020	.015	.011	.000	.000	.000	.000		
19	.230	.106	.088	.073	.066	.058	.046	.040	.035	.031	.027	.022	.018	.013	.000	.000	.000	.000	.000	
20	.237	.108	.091	.075	.071	.062	.051	.042	.038	.033	.029	.024	.020	.015	.000	.000	.000	.000	.000	.000
21	.246	.111	.093	.077	.073	.066	.055	.044	.040	.035	.031	.027	.022	.018	.000	.000	.000	.000	.000	.000
22	.252	.113	.095	.080	.075	.071	.060	.046	.042	.038	.033	.029	.024	.020	.000	.000	.000	.000	.000	.000
23	.259	.115	.097	.082	.077	.073	.064	.049	.044	.040	.035	.031	.027	.022	.000	.000	.000	.000	.000	.000
24	.265	.117	.100	.084	.080	.075	.069	.051	.046	.042	.038	.033	.029	.024	.000	.000	.000	.000	.000	.000
25	.272	.119	.102	.086	.082	.077	.073	.053	.049	.044	.040	.035	.031	.027	.000	.000	.000	.000	.000	.000
26	.279	.122	.104	.088	.084	.080	.075	.055	.051	.046	.042	.038	.033	.029	.000	.000	.000	.000	.000	.000
27	.285	.124	.106	.091	.086	.082	.077	.055	.053	.049	.044	.040	.035	.031	.000	.000	.000	.000	.000	.000
28	.292	.126	.108	.093	.088	.084	.080	.055	.053	.051	.046	.042	.038	.033	.000	.000	.000	.000	.000	.000
29	.299	.128	.111	.095	.091	.086	.082	.055	.053	.051	.049	.044	.040	.035	.000	.000	.000	.000	.000	.000
30	.305	.131	.113	.097	.093	.088	.084	.055	.053	.051	.049	.046	.042	.038	.000	.000	.000	.000	.000	.000
31	.312	.133	.115	.100	.095	.091	.086	.055	.053	.051	.049	.046	.044	.040	.000	.000	.000	.000	.000	.000
32	.319	.135	.117	.102	.097	.093	.088	.055	.053	.051	.049	.046	.044	.042	.000	.000	.000	.000	.000	.000
33	.330	.137	.119	.104	.100	.095	.091	.055	.053	.051	.049	.046	.044	.042	.000	.000	.000	.000	.000	.000
34	.341	.139	.122	.106	.102	.097	.093	.055	.053	.051	.049	.046	.044	.042	.000	.000	.000	.000	.000	.000
35	.352	.142	.124	.108	.104	.100	.095	.055	.053	.051	.049	.046	.044	.042	.000	.000	.000	.000	.000	.000
36	.363	.144	.126	.111	.106	.102	.097	.055	.053	.051	.049	.046	.044	.042	.000	.000	.000	.000	.000	.000
37	.372	.146	.128	.113	.108	.104	.100	.055	.053	.051	.049	.046	.044	.042	.000	.000	.000	.000	.000	.000
38	.381	.150	.131	.115	.111	.106	.102	.055	.053	.051	.049	.046	.044	.042	.000	.000	.000	.000	.000	.000
39	.389	.155	.135	.117	.113	.108	.104	.055	.053	.051	.049	.046	.044	.042	.000	.000	.000	.000	.000	.000
40	.398	.159	.139	.119	.115	.111	.106	.055	.053	.051	.049	.046	.044	.042	.000	.000	.000	.000	.000	.000

TOTAL OBSERVATIONS 452

TABLE 2.12.a. P(W ≥ W\*) I CONSECUTIVE LAUNCH OPPORTUNITIES IN J PERIODS (W\* = 90 M/SEC).  
BASED ON MAXIMUM WIND SPEEDS IN THE 10-15 KM LAYER OVER CAPE KENNEDY, FLORIDA.  
PERIOD OF RECORD JANUARY 1956 - DECEMBER 1963.

CAPE KENNEDY , FLORIDA FEBRUARY  
 SPEFDS GREATER TH: I OR EQUAL TO 080 MPS

P ( I SUCCESSES IN J PERIODS )

	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
1	.066																			
2	.084	.049																		
3	.097	.062	.038																	
4	.108	.071	.049	.031																
5	.119	.075	.058	.040	.027															
6	.128	.082	.060	.051	.033	.022														
7	.135	.086	.066	.055	.044	.027	.018													
8	.142	.086	.073	.062	.051	.035	.020	.015												
9	.148	.086	.075	.069	.058	.042	.029	.018	.013											
10	.157	.086	.077	.071	.064	.049	.035	.027	.015	.011										
11	.166	.088	.080	.073	.066	.055	.042	.033	.024	.013	.009									
12	.175	.091	.082	.075	.069	.058	.051	.038	.031	.022	.011	.007								
13	.184	.093	.084	.080	.071	.060	.053	.046	.033	.029	.020	.009	.004							
14	.192	.095	.086	.082	.077	.062	.055	.049	.040	.031	.027	.018	.007	.002						
15	.201	.097	.088	.084	.080	.071	.058	.051	.042	.038	.029	.024	.015	.004	.000					
16	.210	.100	.091	.086	.082	.073	.069	.053	.044	.040	.035	.027	.022	.013	.000	.000				
17	.217	.102	.093	.088	.084	.075	.071	.066	.046	.042	.038	.033	.024	.020	.007	.000	.000			
18	.223	.104	.095	.091	.086	.077	.073	.069	.062	.044	.040	.035	.031	.022	.013	.004	.000	.000		
19	.230	.106	.097	.093	.088	.080	.075	.071	.066	.042	.038	.033	.029	.015	.011	.002	.000	.000		
20	.237	.108	.100	.095	.091	.082	.077	.073	.069	.062	.058	.040	.035	.031	.022	.013	.009	.000	.000	.000
21	.246	.111	.102	.097	.093	.084	.080	.075	.071	.062	.060	.055	.038	.033	.027	.018	.011	.004	.000	.000
22	.252	.113	.104	.100	.095	.086	.082	.077	.073	.062	.060	.058	.053	.035	.031	.022	.013	.007	.002	.000
23	.259	.115	.106	.102	.097	.088	.084	.080	.075	.062	.060	.058	.055	.051	.033	.029	.015	.009	.004	.000
24	.265	.117	.108	.104	.100	.091	.086	.082	.077	.062	.060	.058	.055	.053	.049	.031	.022	.011	.007	.000
25	.272	.119	.111	.106	.102	.093	.088	.084	.080	.062	.060	.058	.055	.053	.051	.046	.024	.018	.009	.000
26	.279	.122	.113	.108	.104	.095	.091	.086	.082	.062	.060	.058	.055	.053	.051	.049	.040	.022	.013	.000
27	.285	.124	.115	.111	.106	.097	.093	.088	.084	.062	.060	.058	.055	.053	.051	.049	.044	.035	.020	.000
28	.292	.126	.117	.113	.108	.100	.095	.091	.086	.062	.060	.058	.055	.053	.051	.049	.046	.040	.031	.004
29	.299	.128	.119	.115	.111	.102	.097	.093	.088	.062	.060	.058	.055	.053	.051	.049	.046	.044	.035	.013
30	.305	.131	.122	.117	.113	.104	.100	.095	.091	.062	.060	.058	.055	.053	.051	.049	.046	.044	.042	.018
31	.312	.133	.124	.119	.115	.106	.102	.097	.093	.062	.060	.058	.055	.053	.051	.049	.046	.044	.042	.027
32	.319	.135	.126	.122	.117	.108	.104	.100	.095	.062	.060	.058	.055	.053	.051	.049	.046	.044	.042	.029
33	.330	.137	.128	.124	.119	.111	.106	.102	.097	.062	.060	.058	.055	.053	.051	.049	.046	.044	.042	.029
34	.341	.139	.131	.126	.122	.113	.108	.104	.100	.062	.060	.058	.055	.053	.051	.049	.046	.044	.042	.029
35	.352	.142	.133	.128	.124	.115	.111	.106	.102	.062	.060	.058	.055	.053	.051	.049	.046	.044	.042	.029
36	.363	.144	.135	.131	.126	.117	.113	.108	.104	.062	.060	.058	.055	.053	.051	.049	.046	.044	.042	.029
37	.372	.153	.137	.133	.128	.119	.115	.111	.106	.062	.060	.058	.055	.053	.051	.049	.046	.044	.042	.029
38	.381	.159	.144	.135	.131	.122	.117	.113	.108	.062	.060	.058	.055	.053	.051	.049	.046	.044	.042	.029
39	.389	.166	.150	.139	.133	.124	.119	.115	.111	.062	.060	.058	.055	.053	.051	.049	.046	.044	.042	.029
40	.398	.173	.157	.146	.135	.126	.122	.117	.113	.062	.060	.058	.055	.053	.051	.049	.046	.044	.042	.029

TOTAL OBSERVATIONS 452

TABLE 2.12.b. P(W ≥ W\*) I LAUNCH OPPORTUNITIES IN J PERIODS (W\* = 80 M/SEC).  
 BASED ON MAXIMUM WIND SPEEDS IN THE 10-15 KM LAYER OVER CAPE KENNEDY, FLORIDA.  
 PERIOD OF RECORD JANUARY 1956 - DECEMBER 1963.

CAPE KENNEDY, FLORIDA FEBRUARY  
SPEEDS GREATER THAN OR EQUAL TO 085 MPS

PC ( I CONSECUTIVE SUCCESSES IN J PERIODS )

J	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
1	.049																			
2	.069	.029																		
3	.082	.040	.018																	
4	.091	.049	.027	.009																
5	.100	.098	.033	.013	.004															
6	.108	.064	.040	.015	.009	.000														
7	.113	.071	.046	.018	.011	.000	.000													
8	.117	.077	.051	.020	.013	.000	.000	.000												
9	.122	.080	.055	.022	.015	.000	.000	.000	.000											
10	.128	.080	.060	.024	.018	.000	.000	.000	.000	.000										
11	.135	.080	.064	.027	.020	.000	.000	.000	.000	.000	.000									
12	.142	.080	.066	.029	.022	.000	.000	.000	.000	.000	.000	.000								
13	.148	.080	.069	.031	.024	.000	.000	.000	.000	.000	.000	.000	.000							
14	.155	.082	.071	.033	.027	.000	.000	.000	.000	.000	.000	.000	.000	.000						
15	.162	.084	.075	.035	.029	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000					
16	.168	.086	.080	.040	.031	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000				
17	.173	.088	.084	.044	.035	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000			
18	.177	.091	.086	.049	.040	.002	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000		
19	.181	.093	.088	.053	.044	.004	.002	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	
20	.186	.095	.091	.058	.049	.007	.004	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
21	.190	.097	.093	.062	.053	.009	.007	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
22	.195	.100	.095	.066	.058	.011	.009	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
23	.199	.102	.097	.071	.062	.013	.011	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
24	.204	.104	.100	.075	.066	.015	.013	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
25	.208	.106	.102	.077	.071	.018	.015	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
26	.212	.108	.104	.080	.075	.020	.018	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
27	.217	.111	.106	.082	.077	.022	.020	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
28	.221	.113	.108	.084	.080	.024	.022	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
29	.226	.115	.111	.086	.082	.027	.024	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
30	.230	.117	.113	.088	.084	.029	.027	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
31	.233	.119	.115	.091	.086	.031	.029	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
32	.239	.122	.117	.093	.088	.033	.031	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
33	.243	.124	.119	.095	.091	.035	.033	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
34	.248	.126	.122	.097	.093	.038	.035	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
35	.252	.128	.124	.100	.095	.040	.038	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
36	.257	.131	.126	.102	.097	.042	.040	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
37	.263	.133	.128	.104	.100	.044	.042	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
38	.270	.137	.131	.106	.102	.046	.044	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
39	.277	.142	.133	.108	.104	.049	.046	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
40	.285	.146	.135	.111	.106	.051	.049	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000

TOTAL OBSERVATIONS 452

TABLE 2.13.a. P(W ≥ W\*) I CONSECUTIVE LAUNCH OPPORTUNITIES IN J PERIODS (W\* = 85 M/SEC).  
BASED ON MAXIMUM WIND SPEEDS IN THE 10-15 KM LAYER OVER CAPE KENNEDY, FLORIDA.  
PERIOD OF RECORD JANUARY 1956 - DECEMBER 1963.

CAPE KENNEDY, FLORIDA FEBRUARY  
SPEEDS GREATER THAN OR EQUAL TO 085 MPS

P ( I SUCCESSES IN J PERIODS )

	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
1	.049																			
2	.069	.029																		
3	.082	.044	.018																	
4	.091	.060	.029	.009																
5	.100	.066	.044	.015	.004															
6	.108	.071	.051	.029	.011	.000														
7	.113	.080	.055	.035	.022	.002	.000													
8	.117	.080	.066	.042	.027	.013	.000	.000												
9	.122	.080	.069	.053	.035	.018	.007	.000	.000											
10	.128	.080	.071	.058	.044	.027	.013	.002	.000	.000										
11	.135	.080	.073	.062	.049	.033	.024	.007	.000	.000	.000									
12	.142	.080	.075	.064	.055	.038	.029	.018	.002	.000	.000	.000								
13	.148	.082	.077	.066	.058	.044	.033	.022	.011	.000	.000	.000	.000							
14	.155	.084	.080	.071	.060	.046	.040	.027	.015	.004	.000	.000	.000	.000						
15	.162	.086	.082	.073	.066	.049	.042	.033	.022	.009	.000	.000	.000	.000	.000					
16	.168	.088	.084	.075	.069	.058	.044	.035	.029	.018	.000	.000	.000	.000	.000	.000				
17	.173	.091	.086	.077	.071	.062	.053	.038	.033	.022	.007	.000	.000	.000	.000	.000	.000			
18	.177	.093	.088	.080	.073	.066	.058	.046	.035	.029	.009	.004	.000	.000	.000	.000	.000	.000		
19	.181	.095	.091	.082	.075	.069	.064	.053	.042	.033	.013	.007	.002	.000	.000	.000	.000	.000	.000	
20	.186	.097	.093	.084	.077	.071	.066	.062	.046	.038	.020	.009	.004	.000	.000	.000	.000	.000	.000	.000
21	.190	.100	.095	.086	.080	.073	.069	.064	.055	.042	.024	.013	.007	.000	.000	.000	.000	.000	.000	.000
22	.195	.102	.097	.088	.082	.075	.071	.066	.055	.053	.029	.018	.009	.000	.000	.000	.000	.000	.000	.000
23	.199	.104	.100	.091	.084	.077	.073	.069	.055	.053	.042	.024	.011	.000	.000	.000	.000	.000	.000	.000
24	.204	.106	.102	.093	.086	.080	.075	.071	.055	.053	.046	.035	.018	.000	.000	.000	.000	.000	.000	.000
25	.208	.108	.104	.095	.088	.082	.077	.073	.055	.053	.046	.042	.027	.004	.000	.000	.000	.000	.000	.000
26	.212	.111	.106	.097	.091	.084	.080	.075	.055	.053	.046	.044	.033	.011	.002	.000	.000	.000	.000	.000
27	.217	.113	.108	.100	.093	.086	.082	.077	.055	.053	.046	.044	.038	.018	.007	.000	.000	.000	.000	.000
28	.221	.115	.111	.102	.095	.088	.084	.080	.055	.053	.046	.044	.040	.022	.013	.000	.000	.000	.000	.000
29	.226	.117	.113	.104	.097	.091	.086	.082	.055	.053	.046	.044	.042	.024	.018	.002	.000	.000	.000	.000
30	.230	.119	.115	.106	.100	.093	.088	.084	.055	.053	.046	.044	.042	.029	.020	.007	.000	.000	.000	.000
31	.235	.122	.117	.108	.102	.095	.091	.086	.055	.053	.046	.044	.042	.029	.027	.007	.002	.000	.000	.000
32	.239	.124	.119	.111	.104	.097	.093	.088	.055	.053	.046	.044	.042	.029	.027	.013	.004	.000	.000	.000
33	.243	.126	.122	.113	.106	.100	.095	.091	.055	.053	.046	.044	.042	.029	.027	.013	.011	.000	.000	.000
34	.248	.128	.124	.115	.108	.102	.097	.093	.055	.053	.046	.044	.042	.029	.027	.013	.011	.007	.000	.000
35	.252	.131	.126	.117	.111	.104	.100	.095	.055	.053	.046	.044	.042	.029	.027	.013	.011	.009	.004	.000
36	.257	.133	.128	.119	.113	.106	.102	.097	.055	.053	.046	.044	.042	.029	.027	.013	.011	.009	.007	.002
37	.263	.135	.131	.122	.115	.108	.104	.100	.055	.053	.046	.044	.042	.029	.027	.013	.011	.009	.007	.004
38	.270	.139	.133	.124	.117	.111	.106	.102	.055	.053	.046	.044	.042	.029	.027	.013	.011	.009	.007	.004
39	.277	.144	.135	.126	.119	.113	.108	.104	.055	.053	.046	.044	.042	.029	.027	.013	.011	.009	.007	.004
40	.285	.148	.137	.128	.122	.115	.111	.106	.055	.053	.046	.044	.042	.029	.027	.013	.011	.009	.007	.004

TOTAL OBSERVATIONS 452

TABLE 2.13.b. P(W ≥ W\*) I LAUNCH OPPORTUNITIES IN J PERIODS (W\* = 85 M/SEC).  
BASED ON MAXIMUM WIND SPEEDS IN THE 10-15 KM LAYER OVER CAPE KENNEDY, FLORIDA.  
PERIOD OF RECORD JANUARY 1956 - DECEMBER 1963.

CAPE KENNEDY, FLORIDA FEBRUARY

SPEEDS GREATER THAN OR EQUAL TO 90 MPS

PC ( I CONSECUTIVE SUCCESSES IN J PERIODS )

J	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
1	.038																			
2	.053	.022																		
3	.069	.033	.011																	
4	.077	.044	.018	.004																
5	.086	.053	.024	.009	.000															
6	.093	.060	.029	.013	.000	.000														
7	.095	.066	.033	.015	.000	.000	.000													
8	.097	.073	.035	.018	.000	.000	.000	.000												
9	.100	.075	.038	.020	.000	.000	.000	.000	.000											
10	.102	.077	.040	.022	.000	.000	.000	.000	.000	.000										
11	.104	.077	.042	.024	.000	.000	.000	.000	.000	.000	.000									
12	.106	.077	.044	.027	.000	.000	.000	.000	.000	.000	.000	.000								
13	.108	.077	.046	.029	.000	.000	.000	.000	.000	.000	.000	.000	.000							
14	.113	.077	.049	.031	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000						
15	.117	.080	.051	.033	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000					
16	.122	.082	.055	.035	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000				
17	.124	.084	.060	.040	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000			
18	.126	.086	.062	.044	.002	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000		
19	.128	.088	.064	.049	.004	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	
20	.131	.091	.066	.053	.007	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
21	.133	.093	.069	.058	.009	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
22	.135	.095	.071	.062	.011	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
23	.137	.097	.073	.066	.013	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
24	.139	.100	.075	.071	.015	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
25	.142	.102	.077	.073	.018	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
26	.144	.104	.080	.077	.020	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
27	.146	.106	.082	.077	.022	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
28	.148	.108	.084	.080	.024	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
29	.150	.111	.086	.082	.027	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
30	.153	.113	.088	.084	.029	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
31	.155	.115	.091	.086	.031	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
32	.157	.117	.093	.088	.033	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
33	.159	.119	.095	.091	.035	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
34	.162	.122	.097	.093	.038	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
35	.164	.124	.100	.095	.040	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
36	.166	.126	.102	.097	.042	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
37	.170	.128	.104	.100	.044	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
38	.175	.133	.106	.102	.046	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
39	.179	.137	.108	.104	.049	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
40	.184	.142	.111	.106	.051	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000

TOTAL OBSERVATIONS 452

TABLE 2.14. a. P(W ≥ W\*) I CONSECUTIVE LAUNCH OPPORTUNITIES IN J PERIODS (W\* = 90 M/SEC).  
 BASED ON MAXIMUM WIND SPEEDS IN THE 10-15 KM LAYER OVER CAPE KENNEDY, FLORIDA.  
 PERIOD OF RECORD JANUARY 1956 - DECEMBER 1963.

CAPE KENNEDY, FLORIDA FEBRUARY  
SPEEDS GREATER THAN OR EQUAL TO 90 MPS

P ( I SUCCESSES IN J PERIODS )

	I																			
J	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
1	.038																			
2	.053	.022																		
3	.069	.033	.011																	
4	.077	.049	.018	.004																
5	.086	.055	.031	.009	.000															
6	.093	.064	.033	.022	.000	.000														
7	.095	.075	.038	.024	.009	.000	.000													
8	.097	.077	.051	.027	.013	.004	.000	.000												
9	.100	.077	.058	.038	.018	.007	.002	.000	.000											
10	.102	.077	.060	.046	.027	.011	.004	.000	.000	.000										
11	.104	.077	.062	.051	.038	.015	.009	.000	.000	.000	.000									
12	.106	.077	.064	.053	.046	.024	.011	.002	.000	.000	.000	.000								
13	.108	.077	.066	.055	.049	.035	.015	.004	.000	.000	.000	.000	.000							
14	.113	.077	.066	.060	.051	.040	.024	.007	.000	.000	.000	.000	.000	.000						
15	.117	.080	.066	.060	.058	.042	.031	.013	.000	.000	.000	.000	.000	.000	.000					
16	.122	.082	.069	.060	.058	.051	.033	.022	.002	.000	.000	.000	.000	.000	.000	.000				
17	.124	.084	.071	.062	.058	.053	.042	.027	.009	.000	.000	.000	.000	.000	.000	.000	.000			
18	.126	.086	.073	.064	.060	.055	.046	.033	.015	.002	.000	.000	.000	.000	.000	.000	.000	.000		
19	.128	.088	.075	.066	.062	.055	.053	.038	.022	.007	.000	.000	.000	.000	.000	.000	.000	.000	.000	
20	.131	.091	.077	.069	.064	.055	.053	.046	.029	.011	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
21	.133	.093	.080	.071	.066	.055	.053	.046	.042	.015	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
22	.135	.095	.082	.073	.069	.055	.053	.046	.044	.029	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
23	.137	.097	.084	.075	.071	.055	.053	.046	.044	.038	.007	.000	.000	.000	.000	.000	.000	.000	.000	.000
24	.139	.100	.086	.077	.073	.055	.053	.046	.044	.042	.013	.004	.000	.000	.000	.000	.000	.000	.000	.000
25	.142	.102	.088	.080	.075	.055	.053	.046	.044	.042	.020	.009	.002	.000	.000	.000	.000	.000	.000	.000
26	.144	.104	.091	.082	.077	.055	.053	.046	.044	.042	.022	.015	.004	.000	.000	.000	.000	.000	.000	.000
27	.146	.106	.093	.084	.080	.055	.053	.046	.044	.042	.024	.018	.009	.000	.000	.000	.000	.000	.000	.000
28	.148	.108	.095	.086	.082	.055	.053	.046	.044	.042	.027	.020	.009	.002	.000	.000	.000	.000	.000	.000
29	.150	.111	.097	.088	.084	.055	.053	.046	.044	.042	.029	.022	.009	.004	.000	.000	.000	.000	.000	.000
30	.153	.113	.100	.091	.086	.055	.053	.046	.044	.042	.029	.027	.009	.007	.000	.000	.000	.000	.000	.000
31	.155	.115	.102	.093	.088	.055	.053	.046	.044	.042	.029	.027	.013	.007	.000	.000	.000	.000	.000	.000
32	.157	.117	.104	.095	.091	.055	.053	.046	.044	.042	.029	.027	.013	.011	.000	.000	.000	.000	.000	.000
33	.159	.119	.106	.097	.093	.055	.053	.046	.044	.042	.029	.027	.013	.011	.004	.000	.000	.000	.000	.000
34	.162	.122	.108	.100	.095	.055	.053	.046	.044	.042	.029	.027	.013	.011	.007	.002	.000	.000	.000	.000
35	.164	.124	.111	.102	.097	.055	.053	.046	.044	.042	.029	.027	.013	.011	.009	.004	.000	.000	.000	.000
36	.166	.126	.113	.104	.100	.055	.053	.046	.044	.042	.029	.027	.013	.011	.009	.007	.000	.000	.000	.000
37	.170	.128	.115	.106	.102	.055	.053	.046	.044	.042	.029	.027	.013	.011	.009	.007	.000	.000	.000	.000
38	.173	.133	.117	.108	.104	.055	.053	.046	.044	.042	.029	.027	.013	.011	.009	.007	.000	.000	.000	.000
39	.179	.137	.119	.111	.106	.055	.053	.046	.044	.042	.029	.027	.013	.011	.009	.007	.000	.000	.000	.000
40	.184	.142	.122	.113	.108	.055	.053	.046	.044	.042	.029	.027	.013	.011	.009	.007	.000	.000	.000	.000

TOTAL OBSERVATIONS 492

TABLE 2.14.b. P(W ≥ W<sub>0</sub>) I LAUNCH OPPORTUNITIES IN J PERIODS (W<sub>0</sub> = 90 M/SEC).  
BASED ON MAXIMUM WIND SPEEDS IN THE 10-15 KM LAYER OVER CAPE KENNEDY, FLORIDA.  
PERIOD OF RECORD JANUARY 1956 - DECEMBER 1965.

CAPF KENNEDY - FLORIDA MARCH

SPEEDS GREATER THAN OR EQUAL TO 075 MPS

PC ( I CONSECUTIVE SUCCESSES IN J PERIODS )

	I																			
J	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
1	.976																			
2	.790	.962																		
3	.994	.972	.952																	
4	.996	.980	.962	.942																
5	1.00	.984	.970	.952	.931															
6	1.00	.988	.978	.960	.942	.921														
7	1.00	.992	.982	.968	.950	.931	.911													
8	1.00	.994	.984	.976	.958	.940	.921	.901												
9	1.00	.996	.986	.980	.966	.948	.929	.911	.891											
10	1.00	.998	.988	.982	.974	.956	.938	.919	.901	.883										
11	1.00	1.00	.990	.984	.978	.964	.946	.927	.909	.893	.875									
12	1.00	1.00	.992	.986	.980	.972	.954	.935	.917	.901	.885	.867								
13	1.00	1.00	.994	.988	.982	.976	.962	.944	.925	.909	.893	.877	.859							
14	1.00	1.00	.994	.990	.984	.978	.970	.952	.933	.917	.901	.885	.867	.853						
15	1.00	1.00	.996	.992	.986	.980	.974	.960	.942	.925	.909	.893	.873	.861	.847					
16	1.00	1.00	.998	.994	.988	.982	.976	.968	.950	.933	.917	.901	.879	.867	.855	.843				
17	1.00	1.00	1.00	.996	.992	.984	.978	.972	.958	.942	.925	.909	.885	.873	.861	.851	.837			
18	1.00	1.00	1.00	.998	.994	.988	.980	.974	.966	.950	.933	.917	.891	.879	.867	.857	.845	.831		
19	1.00	1.00	1.00	1.00	.996	.992	.984	.976	.970	.958	.942	.925	.897	.885	.873	.863	.851	.839	.825	
20	1.00	1.00	1.00	1.00	.998	.994	.988	.978	.972	.966	.950	.933	.903	.891	.879	.869	.857	.845	.833	.819
21	1.00	1.00	1.00	1.00	1.00	.996	.992	.980	.974	.970	.958	.942	.909	.897	.885	.875	.863	.851	.839	.827
22	1.00	1.00	1.00	1.00	1.00	.998	.994	.982	.976	.972	.966	.950	.915	.903	.891	.881	.869	.857	.845	.833
23	1.00	1.00	1.00	1.00	1.00	1.00	.996	.984	.978	.974	.970	.958	.921	.901	.897	.887	.875	.863	.851	.839
24	1.00	1.00	1.00	1.00	1.00	1.00	.998	.984	.980	.976	.972	.966	.927	.915	.903	.893	.881	.869	.857	.845
25	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.984	.982	.978	.974	.970	.933	.921	.909	.899	.887	.875	.863	.851
26	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.984	.982	.980	.976	.972	.940	.927	.915	.905	.893	.881	.869	.857
27	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.984	.982	.980	.978	.974	.942	.933	.921	.911	.899	.887	.875	.863
28	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.986	.982	.980	.978	.976	.944	.940	.927	.917	.905	.893	.881	.869
29	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.988	.984	.980	.978	.976	.946	.942	.933	.923	.911	.899	.887	.875
30	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.990	.986	.982	.978	.976	.946	.944	.940	.929	.917	.905	.893	.881
31	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.992	.988	.984	.980	.976	.946	.944	.942	.933	.923	.911	.899	.887
32	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.994	.990	.986	.982	.978	.946	.944	.942	.940	.929	.917	.905	.893
33	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.996	.992	.988	.984	.980	.948	.944	.942	.940	.933	.923	.911	.899
34	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.998	.994	.990	.986	.982	.950	.946	.942	.940	.935	.927	.917	.905
35	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.996	.992	.988	.984	.952	.946	.944	.942	.940	.935	.929	.921	.911
36	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.998	.994	.990	.986	.954	.946	.944	.942	.940	.935	.931	.923	.915
37	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.996	.992	.988	.956	.946	.944	.942	.940	.935	.931	.925	.917
38	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.998	.994	.990	.958	.946	.944	.942	.940	.935	.931	.927	.919
39	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.996	.992	.960	.946	.944	.942	.940	.935	.931	.927	.921
40	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.998	.994	.962	.946	.942	.940	.938	.931	.927	.923

TOTAL OBSERVATIONS 496

TABLE 3. I.e., P(N ≥ 4) I CONSECUTIVE LAUNCH OPPORTUNITIES IN J PERIODS (W = 35 M/SEC).  
 BASED ON MAXIMUM WIND SPEEDS IN THE 10-15 KM LAYER OVER CAPE KENNEDY, FLORIDA.  
 PERIOD OF RECORD JANUARY 1, 56 - DECEMBER 1963.

CAPF KENNEDY, FLORIDA MARCH  
 SPEEFS GREATER THAN OR EQUAL TO 025 MPS

P ( I SUCCESSES IN J PERIODS )

J	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
1	.976																			
2	.990	.762																		
3	.994	.980	.952																	
4	.996	.988	.972	.942																
5	1.00	.990	.982	.966	.931															
6	1.00	.998	.984	.978	.960	.921														
7	1.00	1.00	.992	.980	.974	.954	.911													
8	1.00	1.00	.996	.988	.976	.970	.948	.901												
9	1.00	1.00	.998	.992	.984	.972	.966	.942	.891											
10	1.00	1.00	.998	.996	.988	.980	.968	.962	.935	.883										
11	1.00	1.00	.998	.996	.994	.984	.976	.964	.958	.931	.875									
12	1.00	1.00	.998	.996	.994	.992	.980	.972	.960	.956	.927	.867								
13	1.00	1.00	1.00	.996	.994	.992	.990	.976	.968	.958	.954	.923	.859							
14	1.00	1.00	1.00	1.00	.994	.992	.990	.988	.972	.964	.956	.952	.917	.853						
15	1.00	1.00	1.00	1.00	1.00	.992	.990	.988	.986	.968	.962	.954	.946	.915	.847					
16	1.00	1.00	1.00	1.00	1.00	1.00	.990	.988	.986	.984	.964	.960	.948	.944	.913	.843				
17	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.988	.986	.984	.982	.962	.954	.946	.942	.911	.837			
18	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.986	.984	.982	.980	.958	.950	.944	.940	.909	.831		
19	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.984	.982	.980	.978	.954	.946	.942	.938	.905	.825	
20	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.998	.982	.980	.978	.976	.948	.944	.940	.933	.901	.819
21	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.996	.980	.978	.976	.970	.946	.942	.935	.929	.897
22	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.994	.978	.976	.970	.968	.944	.938	.931	.929
23	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.992	.976	.970	.968	.964	.940	.933	.927
24	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.990	.970	.968	.966	.964	.935	.929
25	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.984	.968	.966	.964	.962	.931
26	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.998	.980	.964	.964	.962
27	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.996	.976	.964	.962	.960
28	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.994	.972	.962	.960
29	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.992	.968	.960
30	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.990	.964
31	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.988
32	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
33	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
34	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
35	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
36	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
37	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
38	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
39	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
40	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00

TOTAL OBSERVATIONS 496

TABLE 3. 1.b. P(N ≥ N\*) I LAUNCH OPPORTUNITIES IN J PERIODS (N\* = 25 M/SEC).  
 BASED ON MAXIMUM WIND SPEEDS IN THE 10-15 KM LAYER OVER CAPE KENNEDY, FLORIDA.  
 PERIOD OF RECORD JANUARY 1956 - DECEMBER 1963.



CAPE KENNEDY, FLORIDA MARCH

SPEEDS GREATER THAN OR EQUAL TO 030 MPS

PC ( I CONSECUTIVE SUCCESSSES IN J PERIODS )

J	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
1	.940																			
2	.958	.921																		
3	.972	.940	.903																	
4	.978	.958	.919	.887																
5	.982	.970	.935	.903	.871															
6	.988	.976	.950	.919	.885	.855														
7	.994	.980	.962	.933	.899	.869	.839													
8	.996	.984	.968	.948	.911	.883	.853	.823												
9	.998	.988	.972	.960	.923	.895	.867	.837	.806											
10	1.00	.990	.976	.966	.935	.907	.879	.851	.821	.792										
11	1.00	.992	.980	.970	.946	.919	.891	.863	.835	.806	.778									
12	1.00	.994	.982	.974	.950	.931	.903	.875	.847	.821	.792	.764								
13	1.00	.994	.984	.978	.952	.944	.915	.887	.859	.833	.806	.778	.750							
14	1.00	.996	.986	.980	.954	.948	.929	.899	.871	.845	.819	.792	.764	.736						
15	1.00	.998	.988	.982	.956	.950	.942	.913	.883	.857	.831	.804	.778	.750	.724					
16	1.00	1.00	.990	.986	.958	.952	.946	.927	.897	.869	.843	.817	.790	.764	.738	.712				
17	1.00	1.00	.992	.988	.962	.954	.948	.940	.911	.883	.855	.829	.802	.776	.752	.726	.698			
18	1.00	1.00	.994	.990	.966	.956	.950	.944	.925	.897	.869	.841	.815	.788	.764	.740	.712	.683		
19	1.00	1.00	.996	.992	.968	.958	.952	.946	.938	.911	.883	.855	.827	.800	.776	.752	.726	.698	.669	
20	1.00	1.00	.998	.994	.970	.960	.954	.948	.942	.925	.897	.869	.841	.813	.788	.764	.738	.712	.683	.655
21	1.00	1.00	1.00	.996	.972	.960	.956	.950	.944	.938	.911	.883	.855	.827	.800	.776	.750	.724	.698	.669
22	1.00	1.00	1.00	.998	.974	.960	.958	.952	.946	.942	.925	.897	.869	.841	.815	.788	.762	.736	.710	.683
23	1.00	1.00	1.00	1.00	.976	.960	.958	.954	.948	.944	.938	.911	.883	.855	.829	.802	.774	.748	.722	.696
24	1.00	1.00	1.00	1.00	.978	.960	.958	.956	.950	.946	.942	.925	.897	.869	.843	.817	.788	.760	.734	.708
25	1.00	1.00	1.00	1.00	.980	.960	.958	.956	.952	.948	.944	.938	.911	.883	.857	.831	.802	.772	.746	.720
26	1.00	1.00	1.00	1.00	.982	.960	.958	.956	.954	.950	.946	.942	.925	.897	.871	.845	.817	.784	.758	.732
27	1.00	1.00	1.00	1.00	.984	.960	.958	.956	.954	.952	.948	.944	.938	.911	.885	.859	.831	.796	.770	.744
28	1.00	1.00	1.00	1.00	.986	.960	.958	.956	.954	.952	.950	.946	.942	.925	.899	.873	.845	.808	.782	.756
29	1.00	1.00	1.00	1.00	.988	.962	.958	.956	.954	.952	.950	.948	.944	.938	.913	.887	.859	.821	.794	.768
30	1.00	1.00	1.00	1.00	.990	.964	.960	.956	.954	.952	.950	.948	.946	.942	.927	.901	.873	.833	.806	.780
31	1.00	1.00	1.00	1.00	.992	.966	.962	.958	.954	.952	.950	.948	.946	.944	.938	.913	.887	.845	.819	.792
32	1.00	1.00	1.00	1.00	.994	.968	.964	.960	.956	.952	.950	.948	.946	.944	.942	.927	.901	.857	.831	.804
33	1.00	1.00	1.00	1.00	.996	.970	.966	.962	.958	.954	.950	.948	.946	.944	.942	.938	.913	.867	.843	.817
34	1.00	1.00	1.00	1.00	.998	.972	.968	.964	.960	.956	.950	.948	.946	.944	.942	.940	.925	.879	.855	.829
35	1.00	1.00	1.00	1.00	1.00	.974	.970	.966	.962	.958	.950	.948	.946	.944	.942	.940	.933	.889	.865	.841
36	1.00	1.00	1.00	1.00	1.00	.976	.972	.968	.964	.960	.950	.948	.946	.944	.942	.940	.935	.897	.875	.851
37	1.00	1.00	1.00	1.00	1.00	.978	.974	.970	.966	.962	.950	.948	.946	.944	.942	.940	.935	.903	.883	.861
38	1.00	1.00	1.00	1.00	1.00	.980	.976	.972	.968	.964	.950	.948	.946	.944	.942	.940	.935	.905	.891	.869
39	1.00	1.00	1.00	1.00	1.00	.982	.978	.974	.970	.966	.950	.948	.946	.944	.942	.940	.935	.905	.897	.877
40	1.00	1.00	1.00	1.00	1.00	.984	.980	.976	.972	.968	.950	.948	.946	.944	.942	.940	.935	.905	.899	.885

TOTAL OBSERVATIONS 496

TABLE 3. 2.a. P(W ≥ W<sub>0</sub>) I CONSECUTIVE LAUNCH OPPORTUNITIES IN J PERIODS (W<sub>0</sub> = 30 M/SEC).  
 BASED ON MAXIMUM WIND SPEEDS IN THE 10-15 M4 LAYER OVER CAPE KENNEDY, FLORIDA.  
 PERIOD OF RECORD JANUARY 1956 - DECEMBER 1961.

CAPE KENNEDY, FLORIDA MARCH  
 SPEEDS GREATER THAN OR EQUAL TO 0.30 MPS

P ( I SUCCESSSES IN J PERIODS )

	I																			
J	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
1	.940																			
2	.958	.921																		
3	.972	.944	.903																	
4	.978	.964	.977	.887																
5	.982	.972	.954	.913	.871															
6	.988	.976	.964	.946	.897	.855														
7	.994	.980	.968	.958	.935	.881	.839													
8	.996	.988	.972	.962	.950	.927	.865	.823												
9	.998	.990	.982	.966	.954	.944	.917	.851	.806											
10	1.00	.992	.986	.976	.958	.948	.933	.911	.837	.792										
11	1.00	.996	.986	.980	.970	.952	.935	.929	.905	.825	.778									
12	1.00	.996	.994	.972	.976	.964	.938	.931	.925	.901	.813	.764								
13	1.00	.998	.994	.990	.978	.972	.968	.933	.927	.923	.897	.800	.750							
14	1.00	1.00	.996	.990	.988	.974	.956	.944	.929	.925	.921	.893	.788	.736						
15	1.00	1.00	1.00	.992	.988	.986	.960	.950	.940	.927	.923	.919	.889	.776	.724					
16	1.00	1.00	1.00	.998	.990	.986	.976	.952	.946	.938	.925	.921	.917	.885	.766	.712				
17	1.00	1.00	1.00	1.00	.996	.988	.978	.968	.948	.944	.935	.923	.919	.915	.881	.756	.698			
18	1.00	1.00	1.00	1.00	1.00	.994	.980	.968	.966	.946	.942	.933	.921	.917	.913	.877	.744	.683		
19	1.00	1.00	1.00	1.00	1.00	1.00	.986	.968	.966	.964	.944	.940	.931	.919	.915	.911	.871	.732	.669	
20	1.00	1.00	1.00	1.00	1.00	1.00	.996	.970	.966	.964	.962	.942	.938	.929	.917	.911	.907	.865	.720	.655
21	1.00	1.00	1.00	1.00	1.00	1.00	.996	.982	.966	.964	.962	.960	.940	.935	.927	.915	.909	.903	.859	.708
22	1.00	1.00	1.00	1.00	1.00	1.00	.996	.984	.976	.964	.962	.950	.958	.938	.933	.925	.911	.905	.899	.853
23	1.00	1.00	1.00	1.00	1.00	1.00	.996	.986	.978	.972	.962	.960	.958	.956	.935	.931	.921	.907	.901	.895
24	1.00	1.00	1.00	1.00	1.00	1.00	.998	.988	.980	.974	.968	.960	.958	.956	.954	.933	.929	.917	.903	.897
25	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.992	.982	.976	.970	.964	.958	.956	.954	.952	.931	.925	.913	.899
26	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.998	.986	.978	.972	.966	.960	.956	.954	.952	.950	.929	.921	.909
27	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.994	.982	.974	.968	.960	.958	.956	.952	.950	.948	.927	.917
28	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.990	.978	.970	.960	.958	.956	.952	.950	.948	.946	.925
29	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.986	.974	.960	.958	.956	.954	.950	.948	.946	.944
30	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.972	.962	.958	.956	.954	.952	.948	.946	.944
31	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.968	.960	.956	.954	.952	.950	.946	.944
32	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.968	.964	.958	.954	.952	.950	.948	.944
33	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.960	.986	.964	.956	.952	.950	.948	.946
34	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.992	.988	.984	.962	.952	.950	.948	.946
35	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.994	.990	.986	.982	.956	.950	.948	.946
36	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.996	.992	.988	.984	.976	.952	.948	.946
37	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.998	.994	.990	.986	.978	.972	.948	.946
38	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.996	.992	.988	.982	.974	.966	.946
39	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.994	.990	.986	.978	.968
40	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.992	.988	.984	.970	.964

TOTAL OBSERVATIONS 496

TABLE 3. 2.b. P(N ≥ W) I LAUNCH OPPORTUNITIES IN J PERIODS (W = 30 M/SEC).  
 BASED ON MAXIMUM WIND SPEEDS IN THE 10-15 KM LAYER OVER CAPE KENNEDY, FLORIDA.

PERIOD OF RECORD JANUARY 1954 - DECEMBER 1963.

CAPE KENNEDY, FLORIDA MARCH

SPEEDS GREATER THAN OR EQUAL TO 35 MPS

PC ( I CONSECUTIVE SUCCESSES IN J PERIODS )

	I																			
J	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
1	.883																			
2	.917	.845																		
3	.942	.873	.810																	
4	.958	.905	.837	.778																
5	.966	.925	.867	.804	.746															
6	.972	.942	.895	.835	.768	.716														
7	.978	.954	.915	.863	.794	.738	.685													
8	.982	.964	.931	.891	.819	.764	.706	.659												
9	.984	.974	.944	.911	.843	.788	.730	.679	.633											
10	.986	.980	.954	.927	.867	.813	.752	.704	.651	.611										
11	.988	.982	.966	.940	.885	.837	.774	.726	.673	.627	.591									
12	.990	.984	.974	.952	.899	.863	.796	.748	.694	.647	.607	.571								
13	.990	.986	.978	.964	.911	.881	.821	.770	.714	.665	.627	.587	.550							
14	.992	.988	.982	.972	.921	.897	.845	.794	.734	.683	.645	.607	.563	.534						
15	.994	.990	.984	.976	.931	.909	.863	.819	.756	.702	.663	.625	.579	.544	.520					
16	.996	.992	.988	.980	.938	.919	.877	.845	.778	.722	.681	.643	.593	.558	.530	.506				
17	.998	.994	.990	.984	.944	.929	.887	.863	.802	.742	.702	.661	.607	.571	.544	.516	.492			
18	1.00	.996	.992	.988	.950	.935	.897	.877	.827	.764	.722	.681	.621	.583	.556	.530	.500	.480		
19	1.00	.998	.994	.990	.954	.942	.907	.887	.843	.786	.744	.702	.637	.595	.569	.542	.512	.488	.468	
20	1.00	1.00	.996	.992	.958	.948	.915	.897	.855	.808	.766	.724	.653	.609	.581	.554	.522	.500	.476	.456
21	1.00	1.00	.998	.994	.960	.952	.923	.907	.863	.823	.788	.746	.671	.623	.595	.567	.532	.510	.488	.464
22	1.00	1.00	1.00	.996	.960	.956	.931	.915	.871	.835	.808	.768	.690	.639	.609	.581	.542	.520	.498	.476
23	1.00	1.00	1.00	.998	.960	.958	.938	.923	.879	.843	.823	.788	.708	.655	.625	.595	.554	.530	.508	.486
24	1.00	1.00	1.00	1.00	.960	.958	.944	.931	.885	.851	.835	.808	.726	.671	.641	.611	.567	.542	.518	.496
25	1.00	1.00	1.00	1.00	.960	.958	.948	.938	.891	.859	.843	.823	.744	.688	.657	.627	.579	.554	.530	.506
26	1.00	1.00	1.00	1.00	.960	.958	.950	.942	.897	.865	.851	.835	.762	.704	.673	.643	.591	.567	.542	.518
27	1.00	1.00	1.00	1.00	.960	.958	.952	.946	.899	.871	.859	.843	.778	.720	.690	.659	.603	.579	.554	.530
28	1.00	1.00	1.00	1.00	.960	.958	.954	.948	.901	.875	.865	.851	.792	.736	.706	.675	.615	.591	.567	.542
29	1.00	1.00	1.00	1.00	.962	.958	.956	.950	.903	.877	.869	.859	.802	.750	.722	.692	.627	.603	.579	.554
30	1.00	1.00	1.00	1.00	.964	.960	.956	.952	.903	.879	.873	.863	.813	.762	.738	.708	.639	.615	.591	.567
31	1.00	1.00	1.00	1.00	.966	.962	.958	.954	.903	.881	.875	.867	.821	.772	.752	.724	.651	.627	.603	.579
32	1.00	1.00	1.00	1.00	.968	.964	.960	.956	.903	.883	.877	.871	.827	.780	.762	.740	.663	.639	.615	.591
33	1.00	1.00	1.00	1.00	.970	.966	.962	.958	.905	.885	.879	.873	.833	.788	.770	.752	.675	.651	.627	.603
34	1.00	1.00	1.00	1.00	.972	.968	.964	.960	.907	.887	.881	.875	.839	.794	.778	.760	.685	.663	.639	.615
35	1.00	1.00	1.00	1.00	.974	.970	.966	.962	.909	.889	.883	.877	.843	.800	.786	.768	.694	.673	.651	.627
36	1.00	1.00	1.00	1.00	.976	.972	.968	.964	.911	.891	.885	.879	.847	.806	.792	.776	.702	.683	.661	.639
37	1.00	1.00	1.00	1.00	.978	.974	.970	.966	.913	.893	.887	.881	.851	.813	.798	.784	.710	.692	.671	.649
38	1.00	1.00	1.00	1.00	.980	.976	.972	.968	.915	.895	.889	.883	.855	.819	.804	.790	.718	.700	.681	.659
39	1.00	1.00	1.00	1.00	.982	.978	.974	.970	.917	.897	.891	.885	.859	.825	.810	.796	.726	.708	.690	.669
40	1.00	1.00	1.00	1.00	.984	.980	.976	.972	.919	.899	.893	.887	.861	.831	.817	.802	.732	.716	.698	.679

TOTAL OBSERVATIONS 496

TABLE 3. 3.a. P(W ≥ W\*) I CONSECUTIVE LAUNCH OPPORTUNITIES IN J PERIODS (W\* = 35 M/SEC).  
 BASED ON MAXIMUM WIND SPEEDS IN THE 10-15 KM LAYER OVER CAPE KENNEDY, FLORIDA.  
 PERIOD OF RECORD JANUARY 1956 - DECEMBER 1963.

7

CAPE KENNEDY . FLORIDA MARCH  
 SPEEDS GREATER THAN OR EQUAL TO 035 MPS

P ( I SUCCESSES IN J PERIODS )

	I																			
J	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
1	.883																			
2	.917	.845																		
3	.942	.887	.810																	
4	.958	.915	.863	.778																
5	.966	.940	.897	.839	.746															
6	.972	.952	.927	.879	.808	.716														
7	.978	.962	.940	.915	.851	.786	.685													
8	.982	.972	.952	.927	.891	.833	.762	.659												
9	.984	.978	.966	.942	.905	.877	.810	.744	.633											
10	.986	.980	.974	.960	.921	.891	.861	.794	.724	.611										
11	.988	.982	.976	.970	.942	.911	.875	.849	.778	.706	.591									
12	.990	.984	.978	.972	.952	.935	.899	.863	.837	.760	.692	.571								
13	.990	.988	.980	.974	.954	.948	.925	.891	.851	.821	.748	.677	.550							
14	.992	.988	.986	.976	.956	.950	.942	.917	.883	.837	.808	.736	.659	.534						
15	.994	.990	.986	.984	.958	.952	.946	.935	.909	.873	.825	.798	.720	.643	.520					
16	.996	.992	.988	.984	.968	.954	.948	.942	.929	.899	.865	.815	.784	.706	.631	.506				
17	.998	.994	.990	.986	.968	.966	.950	.946	.938	.919	.891	.859	.800	.772	.696	.617	.492			
18	1.00	.996	.992	.988	.968	.966	.964	.948	.944	.929	.913	.883	.849	.790	.760	.681	.603	.480		
19	1.00	1.00	.994	.990	.968	.966	.964	.962	.946	.940	.923	.907	.871	.843	.780	.744	.665	.593	.468	
20	1.00	1.00	1.00	.992	.968	.966	.964	.962	.960	.944	.935	.917	.899	.861	.837	.764	.728	.653	.583	.456
21	1.00	1.00	1.00	1.00	.968	.966	.964	.962	.960	.958	.942	.931	.909	.893	.851	.825	.748	.714	.643	.573
22	1.00	1.00	1.00	1.00	.976	.966	.964	.962	.960	.958	.956	.940	.925	.903	.885	.835	.815	.732	.704	.633
23	1.00	1.00	1.00	1.00	.978	.972	.964	.962	.960	.958	.956	.954	.935	.919	.899	.867	.823	.802	.722	.694
24	1.00	1.00	1.00	1.00	.980	.974	.968	.962	.960	.958	.956	.954	.950	.929	.917	.883	.855	.810	.794	.712
25	1.00	1.00	1.00	1.00	.984	.976	.970	.964	.960	.958	.956	.954	.950	.944	.927	.901	.875	.845	.800	.786
26	1.00	1.00	1.00	1.00	.988	.980	.972	.966	.960	.958	.956	.954	.950	.944	.942	.911	.893	.871	.833	.792
27	1.00	1.00	1.00	1.00	.992	.984	.976	.968	.960	.958	.956	.954	.950	.944	.942	.929	.901	.889	.863	.825
28	1.00	1.00	1.00	1.00	.996	.988	.980	.972	.960	.958	.956	.954	.950	.944	.942	.931	.921	.895	.883	.857
29	1.00	1.00	1.00	1.00	1.00	.992	.984	.976	.962	.958	.956	.954	.950	.944	.942	.933	.925	.915	.889	.875
30	1.00	1.00	1.00	1.00	1.00	1.00	.988	.980	.964	.960	.956	.954	.950	.944	.942	.935	.929	.919	.909	.881
31	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.984	.966	.962	.958	.954	.950	.944	.942	.938	.931	.925	.913	.901
32	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.968	.964	.960	.956	.950	.944	.942	.940	.933	.927	.921	.903
33	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.986	.966	.962	.958	.952	.944	.942	.940	.938	.929	.923	.911
34	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.988	.984	.964	.960	.954	.944	.942	.940	.938	.935	.925	.911
35	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.990	.986	.982	.962	.956	.944	.942	.940	.938	.935	.933	.911
36	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.992	.988	.984	.980	.958	.944	.942	.940	.938	.935	.933	.919
37	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.994	.990	.986	.982	.976	.944	.942	.940	.938	.935	.933	.919
38	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.996	.992	.988	.984	.980	.960	.942	.940	.938	.935	.933	.919
39	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.998	.994	.990	.986	.982	.968	.952	.940	.938	.935	.933	.919
40	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.996	.992	.988	.984	.974	.958	.946	.938	.935	.933	.919

TOTAL OBSERVATIONS 496

TABLE 3. 3.b. P(W ≥ W\*) I LAUNCH OPPORTUNITIES IN J PERIODS (W\* = 35 M/SEC).  
 BASED ON MAXIMUM WIND SPEEDS IN THE 10-15 KM LAYER OVER CAPE KENNEDY, FLORIDA.  
 PERIOD OF RECORD JANUARY 1956 - DECEMBER 1963.

CAPE KENNEDY . FLORIDA MARCH  
 SPEEDS GREATER THAN OR EQUAL TO 040 MPS

PC ( I CONSECUTIVE SUCCESSES IN J PERIODS )

	I																			
J	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
1	.798																			
2	.859	.734																		
3	.895	.780	.688																	
4	.921	.831	.724	.649																
5	.940	.867	.764	.681	.615															
6	.950	.893	.800	.718	.645	.583														
7	.960	.909	.827	.750	.679	.613	.550													
8	.968	.919	.849	.780	.710	.647	.581	.518												
9	.974	.929	.863	.808	.738	.677	.615	.544	.490											
10	.980	.938	.873	.835	.766	.705	.645	.575	.514	.464										
11	.986	.944	.885	.853	.792	.734	.673	.601	.542	.488	.438									
12	.988	.950	.895	.869	.819	.762	.702	.625	.567	.516	.460	.413								
13	.990	.956	.905	.883	.839	.788	.730	.649	.589	.540	.486	.431	.389							
14	.992	.962	.915	.893	.855	.817	.758	.673	.611	.563	.508	.454	.405	.369						
15	.994	.968	.925	.903	.869	.837	.786	.698	.633	.585	.528	.472	.425	.385	.349					
16	.996	.970	.935	.915	.879	.853	.815	.724	.655	.607	.548	.488	.442	.405	.365	.329				
17	.998	.972	.944	.925	.891	.867	.835	.748	.679	.629	.569	.504	.456	.421	.385	.343	.310			
18	1.00	.974	.952	.933	.903	.879	.851	.772	.704	.653	.589	.520	.470	.435	.401	.361	.325	.292		
19	1.00	.976	.958	.940	.913	.891	.867	.788	.726	.677	.611	.536	.484	.450	.415	.375	.343	.306	.274	
20	1.00	.978	.964	.946	.923	.903	.879	.802	.750	.702	.633	.554	.498	.464	.429	.387	.357	.325	.286	.258
21	1.00	.980	.968	.950	.931	.913	.891	.815	.766	.726	.655	.573	.514	.478	.444	.399	.369	.339	.302	.266
22	1.00	.982	.972	.952	.940	.923	.903	.823	.780	.752	.679	.591	.530	.494	.458	.411	.381	.351	.317	.278
23	1.00	.984	.976	.954	.944	.931	.913	.831	.792	.768	.704	.609	.546	.510	.472	.423	.393	.363	.329	.288
24	1.00	.986	.980	.956	.948	.938	.923	.839	.800	.782	.728	.629	.563	.526	.486	.435	.405	.375	.341	.296
25	1.00	.988	.984	.958	.952	.942	.929	.847	.808	.794	.744	.647	.581	.542	.500	.448	.417	.387	.353	.304
26	1.00	.990	.986	.960	.954	.946	.935	.853	.817	.802	.760	.665	.601	.560	.514	.460	.429	.399	.365	.313
27	1.00	.992	.988	.962	.956	.950	.940	.857	.823	.810	.774	.681	.617	.581	.530	.472	.442	.411	.377	.321
28	1.00	.994	.990	.962	.958	.952	.944	.861	.829	.817	.784	.698	.633	.601	.548	.486	.454	.423	.389	.329
29	1.00	.996	.992	.964	.960	.954	.948	.865	.833	.823	.792	.712	.647	.617	.567	.502	.468	.435	.401	.337
30	1.00	.998	.994	.966	.962	.956	.950	.869	.837	.829	.800	.720	.661	.633	.585	.518	.484	.450	.413	.345
31	1.00	1.00	.996	.968	.964	.960	.952	.873	.841	.833	.808	.728	.673	.647	.599	.534	.500	.466	.427	.353
32	1.00	1.00	.998	.970	.966	.962	.956	.875	.845	.837	.817	.736	.683	.661	.613	.550	.516	.482	.444	.363
33	1.00	1.00	1.00	.972	.968	.964	.960	.877	.849	.841	.823	.744	.694	.673	.625	.563	.532	.498	.460	.375
34	1.00	1.00	1.00	.974	.970	.966	.962	.879	.851	.845	.829	.752	.704	.683	.637	.575	.548	.514	.476	.387
35	1.00	1.00	1.00	.976	.972	.968	.964	.881	.853	.849	.835	.760	.714	.694	.647	.585	.560	.530	.492	.399
36	1.00	1.00	1.00	.978	.974	.970	.966	.883	.855	.851	.841	.768	.724	.704	.655	.595	.573	.544	.508	.411
37	1.00	1.00	1.00	.980	.976	.972	.968	.885	.857	.853	.847	.776	.734	.714	.663	.603	.583	.558	.524	.423
38	1.00	1.00	1.00	.982	.978	.974	.970	.887	.859	.855	.851	.784	.744	.724	.671	.609	.593	.571	.540	.435
39	1.00	1.00	1.00	.984	.980	.976	.972	.889	.861	.857	.853	.792	.756	.734	.679	.615	.601	.581	.552	.448
40	1.00	1.00	1.00	.986	.982	.978	.974	.891	.863	.859	.855	.800	.766	.746	.688	.621	.607	.591	.565	.460

TOTAL OBSERVATIONS 496

TABLE 3. 4.a.  $P(W \geq W^*)$  I CONSECUTIVE LAUNCH OPPORTUNITIES IN J PERIODS ( $W^* = 40$  M/SEC).  
 BASED ON MAXIMUM WIND SPEEDS IN THE 10-15 KM LAYER OVER CAPE KENNEDY, FLORIDA.  
 PERIOD OF RECORD JANUARY 1956 - DECEMBER 1963.

CAPE KENNEDY, FLORIDA MARCH  
SPEEDS GREATER THAN OR EQUAL TO 040 MPS

P ( I SUCCESSES IN J PERIODS )

J	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
1	.798																			
2	.859	.734																		
3	.895	.808	.688																	
4	.921	.859	.760	.649																
5	.940	.891	.813	.724	.615															
6	.950	.915	.851	.780	.690	.583														
7	.960	.925	.879	.831	.750	.657	.550													
8	.968	.935	.889	.865	.813	.722	.625	.518												
9	.974	.944	.901	.877	.855	.794	.692	.591	.490											
10	.980	.948	.913	.889	.869	.843	.772	.657	.565	.464										
11	.986	.952	.919	.903	.881	.861	.829	.740	.635	.538	.438									
12	.988	.960	.925	.911	.895	.873	.853	.798	.722	.613	.512	.413								
13	.990	.964	.935	.917	.905	.887	.865	.829	.780	.704	.593	.484	.389							
14	.992	.968	.946	.925	.911	.899	.879	.839	.821	.758	.690	.569	.458	.369						
15	.994	.970	.954	.938	.919	.905	.893	.853	.831	.802	.742	.673	.542	.440	.349					
16	.996	.972	.960	.946	.933	.913	.899	.871	.843	.813	.792	.726	.651	.524	.421	.329				
17	.998	.974	.966	.950	.942	.929	.907	.879	.863	.823	.802	.780	.706	.635	.508	.401	.310			
18	1.00	.976	.970	.956	.946	.938	.925	.889	.871	.841	.815	.792	.766	.683	.621	.490	.385	.292		
19	1.00	.980	.974	.958	.952	.942	.933	.911	.881	.845	.835	.806	.780	.750	.661	.605	.476	.371	.274	
20	1.00	.982	.978	.962	.954	.948	.938	.921	.903	.854	.839	.829	.796	.768	.730	.639	.593	.464	.355	.258
21	1.00	.984	.980	.966	.958	.950	.944	.927	.911	.875	.847	.833	.821	.788	.750	.712	.621	.583	.450	.337
22	1.00	.986	.982	.968	.962	.954	.946	.935	.915	.885	.869	.839	.825	.815	.774	.734	.694	.607	.573	.431
23	1.00	.988	.984	.970	.962	.960	.950	.940	.921	.891	.879	.861	.829	.819	.802	.762	.718	.677	.595	.558
24	1.00	.990	.986	.972	.962	.960	.958	.946	.923	.899	.885	.871	.849	.823	.808	.790	.748	.706	.663	.581
25	1.00	.992	.988	.974	.962	.960	.958	.956	.929	.901	.895	.875	.861	.841	.815	.796	.778	.736	.694	.649
26	1.00	.994	.990	.978	.962	.960	.958	.956	.942	.905	.899	.885	.867	.851	.835	.802	.784	.766	.726	.681
27	1.00	.996	.992	.982	.964	.960	.958	.956	.942	.921	.899	.889	.881	.859	.843	.825	.790	.772	.736	.716
28	1.00	.998	.994	.986	.966	.962	.958	.956	.942	.923	.913	.889	.887	.875	.851	.833	.815	.778	.762	.746
29	1.00	1.00	.996	.990	.968	.964	.960	.956	.942	.925	.913	.903	.887	.883	.869	.841	.823	.804	.768	.752
30	1.00	1.00	1.00	.994	.970	.966	.962	.958	.942	.927	.913	.905	.899	.885	.879	.861	.831	.815	.794	.758
31	1.00	1.00	1.00	1.00	.974	.968	.964	.960	.944	.929	.913	.907	.901	.895	.883	.875	.855	.821	.806	.784
32	1.00	1.00	1.00	1.00	.982	.972	.966	.962	.946	.933	.913	.909	.903	.897	.891	.881	.871	.847	.815	.796
33	1.00	1.00	1.00	1.00	.984	.980	.970	.964	.948	.938	.913	.911	.905	.899	.893	.887	.879	.863	.843	.804
34	1.00	1.00	1.00	1.00	.986	.982	.978	.968	.950	.942	.913	.911	.909	.901	.895	.889	.883	.875	.857	.833
35	1.00	1.00	1.00	1.00	.988	.984	.980	.976	.954	.946	.913	.911	.909	.907	.897	.891	.885	.879	.871	.851
36	1.00	1.00	1.00	1.00	.990	.986	.982	.978	.962	.952	.913	.911	.909	.907	.905	.893	.887	.881	.875	.867
37	1.00	1.00	1.00	1.00	.992	.988	.984	.980	.966	.958	.917	.911	.909	.907	.905	.903	.889	.883	.875	.871
38	1.00	1.00	1.00	1.00	.994	.990	.986	.982	.970	.962	.923	.911	.909	.907	.905	.903	.901	.885	.875	.871
39	1.00	1.00	1.00	1.00	.996	.992	.988	.984	.974	.966	.927	.913	.909	.907	.905	.903	.901	.899	.875	.871
40	1.00	1.00	1.00	1.00	.998	.994	.990	.986	.978	.970	.931	.913	.911	.907	.905	.903	.901	.899	.889	.871

TOTAL OBSERVATIONS 496

TABLE 3. 4.b. P(W ≥ W\*) I LAUNCH OPPORTUNITIES IN J PERIODS (W\* = 40 M/SEC).  
BASED ON MAXIMUM WIND SPEEDS IN THE 10-15 KM LAYER OVER CAPE KENNEDY, FLORIDA.  
PERIOD OF RECORD JANUARY 1956 - DECEMBER 1963.

CAPE KENNEDY . FLORIDA MARCH  
SPEEDS GREATER THAN OR EQUAL TO 045 MPS

PC ( I CONSECUTIVE SUCCESSES IN J PERIODS )

	I																			
J	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
1	.708																			
2	.788	.627																		
3	.841	.683	.573																	
4	.879	.742	.621	.524																
5	.901	.780	.671	.567	.482															
6	.915	.808	.720	.611	.522	.444														
7	.925	.831	.752	.653	.565	.482	.405													
8	.935	.847	.780	.696	.605	.527	.444	.367												
9	.946	.859	.802	.726	.645	.560	.484	.403	.329											
10	.954	.869	.821	.754	.685	.599	.522	.442	.363	.292										
11	.962	.881	.835	.774	.712	.637	.560	.478	.399	.310	.264									
12	.968	.893	.849	.798	.738	.673	.599	.514	.433	.347	.288	.240								
13	.972	.905	.861	.819	.760	.698	.635	.550	.468	.373	.315	.262	.216							
14	.974	.915	.873	.835	.780	.722	.671	.585	.502	.399	.339	.286	.234	.196						
15	.978	.923	.885	.851	.798	.742	.696	.619	.534	.425	.363	.308	.254	.212	.177					
16	.982	.929	.895	.865	.813	.760	.720	.653	.567	.450	.387	.331	.272	.230	.194	.159				
17	.986	.935	.905	.881	.827	.776	.740	.675	.599	.474	.409	.353	.290	.246	.212	.175	.141			
18	.990	.942	.915	.893	.843	.788	.758	.698	.631	.498	.431	.373	.308	.262	.228	.194	.153	.127		
19	.994	.946	.925	.905	.859	.802	.774	.716	.651	.522	.454	.393	.325	.278	.244	.210	.165	.139	.113	
20	.996	.948	.935	.915	.871	.817	.788	.732	.671	.546	.474	.413	.341	.292	.260	.226	.175	.151	.123	.101
21	.998	.950	.942	.925	.883	.831	.802	.748	.688	.563	.494	.431	.357	.306	.274	.242	.185	.161	.133	.109
22	1.00	.952	.946	.933	.893	.841	.817	.760	.706	.579	.514	.450	.371	.321	.288	.256	.196	.171	.143	.117
23	1.00	.954	.948	.940	.901	.851	.831	.772	.722	.595	.526	.468	.385	.333	.302	.270	.206	.181	.151	.125
24	1.00	.956	.950	.944	.909	.857	.841	.784	.734	.611	.540	.486	.399	.345	.315	.284	.216	.192	.159	.131
25	1.00	.958	.952	.946	.915	.863	.849	.796	.746	.627	.552	.498	.413	.357	.327	.296	.226	.202	.167	.137
26	1.00	.960	.954	.948	.919	.869	.855	.804	.758	.641	.565	.510	.431	.369	.339	.308	.234	.212	.175	.143
27	1.00	.962	.956	.950	.921	.873	.861	.813	.768	.655	.577	.520	.442	.385	.351	.321	.242	.220	.183	.149
28	1.00	.964	.958	.952	.923	.875	.867	.819	.776	.667	.587	.530	.452	.401	.367	.333	.250	.228	.190	.155
29	1.00	.964	.960	.954	.925	.875	.871	.825	.784	.679	.595	.540	.460	.411	.383	.349	.258	.236	.196	.159
30	1.00	.964	.962	.956	.927	.875	.873	.831	.790	.690	.603	.546	.468	.421	.399	.365	.270	.244	.202	.163
31	1.00	.964	.962	.958	.929	.875	.873	.835	.796	.700	.611	.552	.476	.429	.409	.381	.282	.256	.208	.167
32	1.00	.964	.962	.960	.931	.875	.873	.839	.802	.708	.617	.558	.482	.438	.419	.397	.294	.268	.218	.171
33	1.00	.964	.962	.960	.933	.875	.875	.841	.808	.716	.623	.565	.488	.446	.427	.407	.306	.280	.228	.179
34	1.00	.964	.962	.960	.935	.875	.875	.845	.815	.724	.627	.569	.494	.452	.435	.417	.319	.292	.238	.188
35	1.00	.964	.962	.960	.938	.875	.875	.849	.821	.732	.631	.573	.500	.458	.444	.425	.327	.304	.248	.196
36	1.00	.964	.962	.960	.940	.875	.875	.851	.827	.747	.635	.575	.504	.464	.450	.433	.335	.317	.258	.204
37	1.00	.964	.962	.960	.942	.875	.875	.853	.833	.750	.641	.577	.508	.470	.456	.442	.341	.325	.268	.212
38	1.00	.964	.962	.960	.944	.875	.875	.855	.837	.758	.647	.579	.512	.474	.462	.448	.347	.333	.278	.220
39	1.00	.964	.962	.960	.946	.875	.875	.857	.841	.764	.653	.581	.516	.478	.468	.454	.353	.339	.284	.228
40	1.00	.964	.962	.960	.948	.875	.875	.859	.845	.770	.659	.583	.520	.482	.472	.460	.357	.345	.290	.236

TOTAL OBSERVATIONS 496

TABLE 3. 5.a.  $P(W \geq W^*)$  I CONSECUTIVE LAUNCH OPPORTUNITIES IN J PERIODS ( $W^* = 45$  M/SEC).  
BASED ON MAXIMUM WIND SPEEDS IN THE 10-15 KM LAYER OVER CAPE KENNEDY, FLORIDA.  
PERIOD OF RECORD JANUARY 1956 - DECEMBER 1963.

CAPF KENNEDY, FLORIDA MARCH  
 SPEFDS GREATER THAN OR EQUAL TO 045 MPS

P ( I SUCCESSES IN J PERIODS )

	I																			
J	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
1	.708																			
2	.788	.627																		
3	.841	.716	.573																	
4	.879	.770	.669	.524																
5	.901	.813	.728	.627	.482															
6	.915	.843	.776	.683	.595	.444														
7	.925	.863	.810	.736	.653	.563	.405													
8	.935	.875	.835	.780	.708	.619	.534	.367												
9	.946	.885	.847	.815	.754	.675	.593	.506	.329											
10	.954	.897	.859	.831	.792	.722	.653	.565	.478	.292										
11	.962	.907	.873	.845	.810	.760	.707	.629	.534	.446	.264									
12	.968	.917	.887	.861	.827	.778	.738	.679	.603	.500	.421	.240								
13	.972	.927	.897	.879	.845	.794	.754	.716	.655	.575	.472	.399	.216							
14	.974	.938	.907	.889	.869	.810	.772	.730	.694	.631	.546	.450	.377	.196						
15	.978	.944	.919	.899	.881	.837	.788	.750	.706	.675	.601	.528	.423	.359	.177					
16	.982	.948	.929	.911	.891	.849	.819	.766	.726	.688	.651	.581	.502	.405	.343	.159				
17	.986	.950	.940	.921	.903	.859	.831	.804	.740	.706	.667	.633	.552	.486	.387	.327	.141			
18	.990	.952	.944	.935	.913	.873	.839	.819	.778	.718	.694	.645	.611	.530	.470	.371	.306	.127		
19	.994	.954	.946	.940	.931	.883	.853	.829	.792	.756	.708	.673	.623	.591	.510	.456	.353	.288	.113	
20	.996	.958	.948	.942	.935	.905	.861	.847	.800	.768	.746	.692	.653	.603	.569	.494	.442	.335	.270	.101
21	.998	.962	.950	.944	.938	.909	.885	.855	.821	.776	.756	.736	.671	.633	.583	.550	.480	.425	.315	.254
22	1.00	.966	.952	.946	.940	.911	.887	.883	.831	.796	.766	.746	.718	.651	.615	.567	.534	.464	.407	.294
23	1.00	.972	.954	.948	.942	.913	.887	.885	.867	.802	.790	.752	.730	.702	.631	.601	.552	.514	.446	.383
24	1.00	.976	.958	.950	.944	.915	.887	.885	.873	.839	.796	.776	.738	.716	.681	.617	.589	.512	.492	.421
25	1.00	.978	.962	.954	.946	.917	.887	.885	.877	.845	.833	.782	.764	.724	.694	.671	.605	.569	.512	.464
26	1.00	.980	.964	.958	.950	.919	.887	.885	.881	.849	.839	.819	.770	.752	.702	.681	.663	.587	.550	.484
27	1.00	.982	.964	.962	.954	.923	.887	.885	.883	.857	.843	.827	.804	.758	.732	.688	.673	.651	.569	.524
28	1.00	.984	.964	.962	.960	.929	.887	.885	.883	.867	.849	.833	.810	.792	.738	.718	.679	.661	.641	.544
29	1.00	.990	.964	.962	.960	.940	.889	.885	.883	.869	.863	.839	.817	.800	.768	.726	.710	.667	.651	.623
30	1.00	.994	.966	.962	.960	.942	.899	.885	.883	.871	.865	.859	.823	.808	.778	.752	.718	.698	.657	.637
31	1.00	.998	.968	.962	.960	.944	.901	.893	.883	.873	.867	.863	.847	.815	.792	.764	.738	.706	.688	.645
32	1.00	1.00	.972	.964	.960	.946	.903	.895	.889	.875	.869	.865	.853	.841	.804	.778	.750	.722	.696	.677
33	1.00	1.00	.976	.968	.960	.948	.905	.897	.891	.879	.873	.867	.857	.845	.837	.792	.762	.736	.708	.688
34	1.00	1.00	.980	.970	.962	.950	.907	.899	.893	.881	.877	.871	.861	.849	.839	.831	.774	.748	.724	.696
35	1.00	1.00	.982	.974	.962	.954	.909	.901	.895	.883	.879	.875	.867	.853	.841	.835	.821	.762	.736	.712
36	1.00	1.00	.984	.978	.962	.956	.911	.905	.897	.885	.881	.875	.875	.859	.843	.837	.829	.813	.748	.722
37	1.00	1.00	.986	.980	.964	.958	.913	.905	.903	.887	.883	.875	.875	.871	.847	.839	.833	.825	.802	.732
38	1.00	1.00	.988	.982	.966	.960	.915	.905	.903	.895	.885	.875	.875	.871	.861	.843	.835	.829	.821	.784
39	1.00	1.00	.990	.984	.968	.960	.919	.905	.903	.897	.893	.875	.875	.871	.861	.859	.839	.831	.825	.810
40	1.00	1.00	.992	.986	.970	.960	.923	.905	.903	.899	.895	.881	.875	.871	.861	.859	.857	.835	.827	.817
TOTAL OBSERVATIONS 496																				

TABLE 3. 5.b. P(W ≥ W<sub>0</sub>) I LAUNCH OPPORTUNITIES IN J PERIODS (W<sub>0</sub> = 45 %/SEC).  
 BASED ON MAXIMUM WIND SPEEDS IN THE 10-15 KM LAYER OVER CAPE KENNEDY, FLORIDA.  
 PERIOD OF RECORD JANUARY 1956 - DECEMBER 1963.



CAPE KENNEDY, FLORIDA MARCH  
SPEEDS GREATER THAN OR EQUAL TO 050 MPS

PC ( I CONSECUTIVE SUCCESSES IN J PERIODS )

J	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
1	.575																			
2	.655	.494																		
3	.708	.556	.431																	
4	.744	.621	.486	.377																
5	.772	.675	.542	.427	.329															
6	.792	.712	.599	.480	.373	.288														
7	.806	.740	.641	.532	.419	.329	.250													
8	.819	.756	.673	.581	.466	.371	.290	.212												
9	.831	.770	.700	.623	.508	.413	.333	.242	.181											
10	.843	.784	.720	.653	.548	.452	.375	.274	.208	.157										
11	.855	.800	.738	.679	.583	.488	.413	.306	.236	.170	.135									
12	.865	.815	.758	.702	.607	.522	.450	.335	.264	.204	.153	.117								
13	.873	.829	.778	.724	.629	.552	.484	.361	.288	.228	.173	.131	.103							
14	.881	.839	.796	.746	.649	.573	.518	.387	.310	.248	.194	.147	.115	.091						
15	.889	.853	.813	.768	.667	.595	.548	.413	.333	.266	.210	.163	.129	.103	.079					
16	.897	.865	.829	.786	.685	.613	.571	.440	.355	.284	.224	.175	.143	.117	.091	.067				
17	.905	.877	.845	.804	.704	.629	.593	.466	.377	.302	.238	.185	.153	.131	.103	.079	.054			
18	.913	.889	.859	.821	.720	.645	.611	.484	.399	.321	.252	.196	.161	.141	.115	.091	.063	.046		
19	.919	.901	.871	.837	.734	.663	.627	.502	.421	.339	.266	.206	.169	.149	.123	.103	.071	.054	.038	
20	.921	.911	.881	.851	.746	.679	.645	.518	.438	.357	.280	.216	.177	.157	.129	.111	.079	.063	.046	.030
21	.923	.917	.891	.863	.758	.696	.661	.534	.454	.375	.294	.226	.185	.165	.135	.117	.085	.071	.054	.038
22	.925	.921	.897	.873	.770	.712	.677	.548	.470	.387	.308	.236	.194	.173	.141	.123	.091	.077	.063	.046
23	.927	.923	.901	.883	.780	.728	.694	.563	.484	.401	.323	.246	.202	.181	.147	.129	.097	.083	.069	.054
24	.929	.925	.903	.891	.788	.744	.710	.577	.498	.411	.333	.256	.210	.190	.153	.135	.103	.089	.075	.060
25	.931	.927	.905	.897	.796	.758	.726	.591	.512	.421	.343	.268	.218	.198	.159	.141	.109	.095	.081	.067
26	.933	.929	.907	.901	.802	.770	.742	.603	.526	.431	.351	.280	.228	.206	.165	.147	.115	.101	.087	.073
27	.935	.931	.909	.903	.808	.782	.756	.615	.540	.442	.359	.292	.238	.214	.171	.153	.121	.107	.093	.079
28	.938	.933	.911	.905	.810	.790	.768	.627	.552	.452	.367	.302	.248	.226	.179	.159	.127	.113	.099	.085
29	.940	.935	.913	.907	.813	.796	.780	.639	.565	.462	.375	.313	.258	.236	.188	.165	.133	.119	.105	.091
30	.942	.938	.915	.909	.815	.800	.786	.651	.577	.470	.383	.323	.266	.244	.196	.171	.139	.125	.111	.097
31	.944	.940	.917	.911	.817	.804	.792	.663	.589	.478	.391	.333	.276	.256	.204	.177	.145	.131	.117	.103
32	.948	.942	.921	.913	.819	.808	.796	.675	.599	.486	.399	.343	.282	.264	.212	.183	.151	.137	.123	.109
33	.952	.944	.925	.917	.821	.813	.800	.688	.609	.494	.407	.353	.290	.272	.220	.190	.157	.143	.129	.115
34	.956	.946	.929	.921	.825	.817	.804	.698	.619	.502	.415	.363	.298	.280	.226	.196	.163	.149	.135	.121
35	.960	.948	.933	.925	.829	.819	.808	.708	.629	.510	.423	.373	.306	.288	.232	.202	.169	.155	.141	.127
36	.964	.950	.938	.929	.833	.821	.813	.718	.637	.518	.431	.383	.315	.296	.238	.206	.175	.161	.147	.133
37	.968	.952	.942	.933	.837	.823	.815	.726	.645	.526	.440	.393	.323	.304	.244	.210	.181	.167	.153	.139
38	.972	.954	.946	.938	.841	.825	.817	.734	.651	.534	.448	.403	.331	.313	.250	.214	.185	.173	.159	.145
39	.976	.956	.950	.942	.845	.827	.819	.740	.657	.540	.456	.411	.339	.321	.256	.218	.190	.179	.165	.151
40	.980	.958	.954	.946	.849	.829	.821	.746	.663	.546	.462	.419	.347	.329	.262	.222	.194	.183	.171	.157

TOTAL OBSERVATIONS 496

TABLE 3. 6.a. P(N ≥ W) I CONSECUTIVE LAUNCH OPPORTUNITIES IN J PERIODS (W = 50 M/SEC).

BASED ON MAXIMUM WIND SPEEDS IN THE 10-15 KM LAYER OVER CAPE KENNEDY, FLORIDA.

PERIOD OF RECORD JANUARY 1956 - DECEMBER 1963.

CAPE KENNEDY, FLORIDA MARCH  
SPEEDS GREATER THAN OR EQUAL TO 050 MPS

P ( I SUCCESSES IN J PERIODS )

J	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
1	.575																			
2	.655	.494																		
3	.708	.587	.431																	
4	.744	.659	.524	.377																
5	.772	.700	.611	.472	.329															
6	.792	.738	.653	.571	.421	.288														
7	.806	.760	.702	.613	.530	.379	.250													
8	.819	.774	.734	.665	.569	.500	.341	.212												
9	.831	.786	.754	.704	.619	.538	.472	.296	.181											
10	.843	.800	.770	.730	.655	.591	.508	.435	.260	.157										
11	.855	.815	.784	.748	.681	.633	.560	.472	.399	.228	.135									
12	.865	.829	.800	.764	.698	.663	.609	.524	.438	.365	.198	.117								
13	.873	.843	.815	.780	.714	.681	.643	.575	.492	.399	.331	.173	.103							
14	.881	.857	.829	.796	.728	.700	.661	.617	.546	.452	.361	.304	.155	.091						
15	.889	.869	.845	.813	.740	.716	.685	.633	.595	.504	.413	.337	.278	.141	.079					
16	.897	.881	.857	.831	.754	.726	.706	.659	.611	.560	.464	.389	.313	.254	.127	.067				
17	.905	.891	.871	.843	.772	.740	.716	.688	.633	.581	.524	.435	.367	.288	.230	.113	.054			
18	.913	.899	.885	.857	.782	.758	.730	.702	.659	.605	.546	.498	.407	.347	.262	.210	.095	.044		
19	.919	.909	.893	.875	.794	.770	.746	.720	.671	.635	.571	.522	.470	.383	.323	.244	.183	.083	.038	
20	.921	.917	.905	.885	.813	.782	.758	.738	.694	.643	.605	.542	.494	.448	.357	.308	.220	.161	.073	.030
21	.923	.919	.915	.899	.823	.804	.768	.750	.712	.665	.613	.579	.512	.472	.423	.339	.290	.198	.145	.063
22	.925	.921	.917	.911	.837	.817	.792	.760	.724	.681	.637	.593	.542	.492	.448	.405	.319	.272	.183	.129
23	.927	.923	.919	.915	.851	.833	.808	.782	.732	.694	.655	.619	.558	.520	.466	.429	.385	.296	.264	.167
24	.929	.925	.921	.917	.855	.849	.827	.798	.754	.702	.669	.637	.587	.538	.492	.446	.407	.363	.286	.232
25	.931	.927	.923	.919	.857	.853	.847	.821	.766	.722	.681	.651	.605	.571	.510	.468	.423	.387	.351	.272
26	.933	.929	.925	.921	.859	.855	.851	.845	.790	.732	.700	.667	.619	.591	.542	.490	.438	.403	.377	.335
27	.935	.931	.927	.923	.861	.857	.853	.849	.821	.754	.710	.683	.639	.605	.563	.526	.458	.413	.393	.365
28	.938	.933	.929	.925	.863	.859	.855	.851	.829	.790	.728	.694	.655	.627	.577	.548	.494	.429	.401	.383
29	.940	.935	.931	.927	.865	.861	.857	.853	.831	.804	.766	.710	.667	.641	.601	.563	.520	.462	.417	.391
30	.942	.938	.933	.929	.867	.863	.859	.855	.835	.808	.790	.744	.683	.653	.613	.589	.538	.484	.448	.407
31	.944	.940	.935	.931	.869	.865	.861	.857	.841	.813	.798	.772	.718	.667	.625	.599	.567	.506	.468	.433
32	.948	.942	.938	.933	.871	.867	.863	.859	.847	.821	.806	.786	.746	.704	.637	.611	.575	.540	.488	.454
33	.952	.944	.940	.935	.873	.869	.865	.861	.851	.829	.813	.796	.764	.732	.673	.623	.585	.548	.524	.472
34	.954	.946	.942	.938	.875	.871	.867	.863	.855	.833	.821	.804	.774	.752	.704	.659	.595	.558	.532	.508
35	.960	.948	.944	.940	.875	.875	.869	.865	.859	.841	.825	.815	.786	.760	.728	.690	.629	.569	.542	.516
36	.964	.950	.946	.942	.875	.875	.875	.867	.863	.847	.829	.819	.802	.772	.738	.716	.659	.601	.552	.526
37	.968	.952	.948	.944	.875	.875	.875	.875	.865	.853	.833	.823	.808	.792	.748	.726	.694	.627	.583	.536
38	.972	.954	.950	.946	.875	.875	.875	.875	.875	.859	.841	.827	.815	.798	.770	.734	.710	.661	.607	.565
39	.976	.956	.952	.948	.875	.875	.875	.875	.875	.871	.845	.837	.819	.804	.774	.760	.716	.661	.641	.587
40	.980	.958	.954	.950	.875	.875	.875	.875	.875	.871	.859	.841	.831	.808	.778	.764	.744	.690	.663	.621

TOTAL OBSERVATIONS 496

TABLE 3. 6.b. P(W ≥ W<sub>0</sub>) I LAUNCH OPPORTUNITIES IN J PERIODS (W<sub>0</sub> = 50 M/SEC).  
BASED ON MAXIMUM WIND SPEEDS IN THE 10-15 KM LAYER OVER CAPE KENNEDY, FLORIDA.  
PERIOD OF RECORD JANUARY 1956 - DECEMBER 1963.

CAPE KENNEDY, FLORIDA MARCH

SPEEDS GREATER THAN OR EQUAL TO 55 MPS

PC ( I CONSECUTIVE SUCCESSES IN J PERIODS )

J	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
1	.433																			
2	.536	.331																		
3	.613	.401	.260																	
4	.671	.474	.319	.202																
5	.714	.536	.379	.244	.161															
6	.742	.589	.442	.288	.198	.129														
7	.766	.629	.490	.333	.236	.161	.099													
8	.786	.657	.528	.375	.274	.196	.125	.075												
9	.798	.683	.558	.411	.310	.230	.153	.093	.058											
10	.810	.706	.583	.440	.347	.262	.181	.113	.071	.044										
11	.825	.726	.603	.464	.379	.294	.208	.133	.085	.054	.040									
12	.839	.748	.623	.486	.405	.325	.234	.151	.099	.067	.046	.034								
13	.849	.768	.643	.508	.427	.353	.260	.169	.111	.077	.054	.040	.028							
14	.859	.786	.663	.532	.450	.375	.286	.188	.123	.085	.063	.046	.034	.022						
15	.871	.802	.681	.554	.472	.395	.313	.206	.135	.093	.069	.052	.040	.026	.018					
16	.881	.821	.698	.575	.494	.413	.335	.224	.147	.101	.075	.056	.046	.030	.022	.014				
17	.891	.837	.716	.593	.514	.431	.353	.242	.159	.109	.081	.060	.050	.034	.026	.018	.010			
18	.901	.849	.734	.611	.532	.450	.371	.256	.171	.117	.087	.065	.054	.036	.030	.022	.012	.008		
19	.911	.861	.750	.629	.550	.466	.389	.270	.181	.125	.093	.069	.058	.038	.032	.026	.014	.010	.006	
20	.915	.873	.762	.647	.569	.480	.407	.284	.192	.131	.099	.073	.063	.040	.034	.028	.016	.012	.008	.004
21	.919	.881	.774	.663	.587	.494	.423	.298	.202	.137	.103	.077	.067	.042	.036	.030	.018	.014	.010	.006
22	.921	.887	.786	.677	.605	.508	.438	.313	.212	.143	.107	.079	.071	.044	.038	.032	.020	.016	.012	.008
23	.923	.893	.798	.692	.621	.522	.450	.325	.222	.149	.111	.081	.073	.046	.040	.034	.022	.018	.014	.010
24	.925	.897	.808	.704	.635	.536	.462	.335	.232	.155	.115	.083	.075	.048	.042	.036	.024	.020	.016	.012
25	.927	.901	.819	.716	.649	.550	.474	.343	.240	.161	.121	.085	.077	.050	.044	.038	.026	.022	.018	.014
26	.929	.905	.827	.726	.663	.563	.486	.351	.248	.167	.127	.089	.079	.052	.046	.040	.028	.024	.020	.016
27	.931	.909	.835	.736	.677	.575	.498	.359	.256	.173	.133	.093	.083	.054	.048	.042	.030	.026	.022	.018
28	.933	.911	.841	.746	.692	.587	.508	.365	.264	.179	.141	.097	.087	.056	.050	.044	.032	.028	.024	.020
29	.935	.913	.847	.754	.706	.599	.518	.371	.272	.185	.147	.103	.091	.058	.052	.046	.034	.030	.026	.022
30	.938	.915	.849	.762	.718	.611	.528	.377	.278	.192	.153	.109	.097	.060	.054	.048	.036	.032	.028	.024
31	.940	.917	.851	.770	.730	.623	.538	.383	.284	.198	.159	.113	.103	.065	.056	.050	.038	.034	.030	.026
32	.944	.919	.853	.776	.742	.635	.548	.389	.290	.204	.165	.117	.109	.069	.060	.052	.040	.036	.032	.028
33	.946	.921	.855	.782	.752	.647	.558	.395	.296	.210	.171	.121	.113	.073	.065	.056	.042	.038	.034	.030
34	.952	.925	.855	.788	.760	.659	.569	.401	.302	.216	.177	.125	.117	.077	.069	.060	.046	.040	.036	.032
35	.956	.929	.855	.794	.768	.671	.579	.407	.308	.222	.183	.129	.121	.079	.073	.065	.050	.044	.038	.034
36	.960	.933	.855	.796	.776	.681	.589	.413	.315	.228	.190	.133	.125	.081	.077	.069	.054	.048	.042	.036
37	.964	.938	.855	.798	.782	.692	.599	.419	.319	.234	.194	.137	.129	.083	.079	.073	.058	.052	.046	.040
38	.968	.942	.855	.800	.786	.700	.609	.425	.323	.240	.202	.141	.133	.085	.081	.077	.063	.056	.050	.044
39	.972	.946	.855	.802	.790	.708	.617	.431	.327	.246	.208	.145	.137	.087	.083	.079	.067	.060	.054	.048
40	.976	.950	.855	.804	.794	.716	.625	.438	.331	.252	.214	.149	.141	.089	.085	.081	.071	.065	.058	.052

TOTAL OBSERVATIONS 496

TABLE 3. 7.2. P(N ≥ W) I CONSECUTIVE LAUNCH OPPORTUNITIES IN J PERIODS (W = 55 M/SEC).  
 BASED ON MAXIMUM WIND SPEEDS IN THE 10-15 KM LAYER OVER CAPE KENNEDY, FLORIDA.  
 PERIOD OF RECORD JANUARY 1964 - DECEMBER 1963.

CAPE KENNEDY, FLORIDA MARCH  
SPEEDS GREATER THAN OR EQUAL TO 055 MPS

P ( I SUCCESSES IN J PERIODS )

	I																			
J	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
1	.433																			
2	.536	.331																		
3	.613	.479	.260																	
4	.671	.512	.357	.202																
5	.714	.577	.444	.290	.141															
6	.742	.629	.508	.381	.242	.129														
7	.766	.661	.563	.452	.329	.204	.099													
8	.786	.692	.599	.504	.399	.290	.165	.075												
9	.798	.722	.631	.542	.454	.353	.256	.129	.058											
10	.810	.744	.663	.573	.498	.403	.315	.220	.101	.048										
11	.825	.762	.688	.611	.528	.438	.365	.274	.191	.083	.040									
12	.839	.778	.710	.637	.569	.478	.407	.325	.226	.153	.071	.034								
13	.849	.796	.726	.663	.601	.516	.442	.367	.276	.197	.131	.060	.028							
14	.859	.813	.744	.679	.629	.556	.480	.399	.317	.240	.165	.111	.052	.022						
15	.871	.827	.758	.700	.647	.587	.522	.438	.351	.277	.210	.143	.097	.042	.018					
16	.881	.843	.772	.714	.671	.605	.542	.454	.389	.306	.248	.181	.129	.083	.032	.014				
17	.891	.855	.788	.730	.688	.631	.571	.518	.431	.341	.278	.220	.163	.113	.067	.024	.010			
18	.901	.867	.798	.746	.708	.649	.597	.536	.468	.375	.317	.252	.196	.145	.099	.052	.014	.008		
19	.911	.877	.810	.756	.724	.677	.613	.563	.490	.400	.347	.294	.226	.167	.130	.087	.032	.010	.006	
20	.915	.891	.819	.770	.734	.698	.643	.579	.522	.425	.381	.323	.272	.188	.157	.125	.063	.022	.008	.004
21	.919	.897	.833	.780	.748	.710	.667	.605	.536	.462	.401	.355	.294	.230	.170	.147	.103	.048	.016	.006
22	.921	.901	.843	.796	.760	.727	.683	.631	.563	.480	.438	.373	.327	.248	.210	.171	.125	.087	.040	.012
23	.923	.903	.849	.810	.778	.740	.700	.649	.589	.508	.456	.409	.339	.282	.210	.208	.153	.107	.077	.034
24	.925	.905	.853	.819	.794	.758	.714	.663	.613	.532	.484	.431	.367	.297	.230	.222	.190	.137	.097	.069
25	.927	.907	.857	.827	.804	.770	.736	.679	.629	.556	.506	.462	.389	.327	.280	.258	.200	.177	.127	.089
26	.929	.909	.857	.835	.813	.782	.752	.702	.645	.575	.528	.484	.421	.340	.294	.268	.234	.188	.171	.119
27	.931	.911	.857	.837	.825	.790	.766	.718	.669	.591	.544	.508	.447	.367	.321	.276	.248	.216	.183	.165
28	.933	.913	.857	.839	.829	.804	.778	.732	.685	.615	.560	.526	.464	.383	.341	.302	.254	.230	.210	.179
29	.935	.915	.857	.841	.831	.813	.792	.764	.700	.633	.579	.546	.485	.409	.365	.317	.280	.238	.222	.204
30	.938	.917	.857	.843	.833	.817	.802	.782	.716	.649	.593	.565	.520	.456	.391	.333	.294	.260	.234	.214
31	.940	.919	.857	.845	.835	.821	.806	.776	.738	.667	.607	.575	.540	.484	.421	.353	.308	.274	.250	.230
32	.944	.921	.857	.847	.837	.825	.810	.784	.752	.690	.621	.587	.548	.510	.454	.377	.321	.292	.260	.242
33	.948	.925	.857	.849	.839	.829	.815	.790	.758	.718	.653	.597	.558	.524	.480	.415	.337	.306	.276	.250
34	.952	.929	.859	.851	.841	.831	.821	.796	.764	.726	.677	.627	.587	.538	.496	.444	.369	.319	.292	.264
35	.956	.933	.861	.853	.843	.833	.823	.804	.772	.734	.688	.655	.591	.550	.512	.462	.393	.349	.300	.284
36	.960	.938	.863	.855	.845	.835	.825	.806	.784	.744	.696	.669	.617	.575	.526	.484	.409	.367	.329	.292
37	.964	.942	.865	.855	.849	.837	.827	.808	.788	.760	.706	.677	.637	.595	.550	.500	.431	.381	.341	.323
38	.968	.946	.867	.855	.851	.841	.829	.810	.792	.766	.724	.688	.645	.619	.569	.522	.454	.397	.351	.333
39	.972	.950	.869	.855	.851	.845	.833	.813	.796	.772	.730	.708	.655	.627	.599	.538	.470	.421	.361	.343
40	.976	.954	.871	.855	.851	.845	.839	.817	.798	.776	.738	.714	.675	.630	.609	.571	.494	.440	.377	.359

TOTAL OBSERVATIONS 496

TABLE 3. 7.b. P(M ≥ N) I LAUNCH OPPORTUNITIES IN J PERIODS (N = 55 M/SEC),  
BASED ON MAXIMUM WIND SPEEDS IN THE 10-15 KM LAYER OVER CAPE KENNEDY, FLORIDA,  
PERIOD OF RECORD JANUARY 1956 - DECEMBER 1963.

CAPE KENNEDY, FLORIDA MARCH

SPEEDS GREATER THAN OR EQUAL TO 060 MPS

PC ( I CONSECUTIVE SUCCESSES IN J PERIODS )

	I																			
J	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
1	.319																			
2	.419	.220																		
3	.494	.288	.155																	
4	.552	.353	.188	.127																
5	.603	.413	.218	.151	.107															
6	.639	.464	.252	.175	.129	.087														
7	.667	.508	.284	.202	.151	.107	.069													
8	.694	.540	.315	.226	.175	.127	.083	.056												
9	.712	.569	.341	.250	.198	.149	.097	.067	.048											
10	.730	.595	.365	.272	.220	.169	.113	.077	.054	.042										
11	.750	.617	.389	.292	.240	.190	.127	.089	.060	.048	.036									
12	.770	.641	.411	.310	.260	.208	.141	.099	.067	.054	.042	.030								
13	.788	.663	.433	.329	.278	.226	.155	.109	.071	.060	.048	.036	.024							
14	.802	.681	.454	.347	.294	.244	.169	.119	.075	.065	.054	.042	.028	.020						
15	.817	.700	.472	.361	.310	.260	.183	.129	.079	.069	.054	.048	.032	.024	.016					
16	.829	.720	.488	.375	.325	.274	.198	.139	.083	.073	.063	.052	.036	.028	.020	.012				
17	.841	.740	.506	.387	.337	.286	.212	.149	.087	.077	.067	.056	.038	.032	.024	.016	.008			
18	.853	.760	.524	.401	.349	.298	.224	.159	.091	.081	.071	.060	.040	.034	.028	.020	.010	.006		
19	.865	.778	.540	.415	.361	.308	.236	.167	.095	.085	.075	.065	.042	.036	.030	.024	.012	.008	.004	
20	.873	.796	.556	.429	.373	.321	.248	.175	.097	.089	.079	.069	.044	.038	.032	.026	.014	.010	.006	.002
21	.881	.815	.573	.444	.385	.331	.260	.183	.099	.091	.083	.073	.046	.040	.034	.028	.016	.012	.008	.004
22	.887	.831	.589	.458	.397	.341	.272	.194	.101	.093	.085	.077	.048	.042	.036	.030	.018	.014	.010	.006
23	.893	.843	.605	.472	.409	.351	.284	.202	.105	.095	.087	.079	.050	.044	.038	.032	.020	.016	.012	.008
24	.899	.853	.621	.486	.421	.361	.296	.210	.109	.099	.089	.081	.052	.046	.040	.034	.022	.018	.014	.010
25	.905	.863	.637	.500	.433	.371	.308	.218	.113	.103	.093	.083	.054	.048	.042	.036	.024	.020	.016	.012
26	.909	.871	.653	.514	.446	.381	.321	.226	.117	.107	.097	.087	.056	.050	.044	.038	.026	.022	.018	.014
27	.913	.879	.669	.528	.458	.391	.331	.234	.121	.111	.101	.091	.058	.052	.046	.040	.028	.024	.020	.016
28	.917	.885	.685	.542	.470	.401	.341	.242	.125	.117	.107	.095	.060	.054	.048	.042	.030	.026	.022	.018
29	.919	.891	.702	.556	.482	.411	.351	.248	.129	.121	.113	.101	.063	.056	.050	.044	.032	.028	.024	.020
30	.921	.895	.714	.571	.494	.421	.361	.254	.133	.125	.117	.107	.067	.058	.052	.046	.034	.030	.026	.022
31	.923	.899	.726	.585	.506	.431	.371	.260	.137	.129	.121	.113	.071	.063	.054	.048	.036	.032	.028	.024
32	.925	.903	.738	.597	.518	.442	.381	.266	.141	.133	.125	.117	.075	.067	.058	.050	.038	.034	.030	.026
33	.929	.907	.750	.609	.530	.452	.391	.272	.145	.137	.129	.121	.079	.071	.063	.054	.040	.036	.032	.028
34	.933	.911	.760	.621	.540	.462	.401	.278	.149	.141	.133	.125	.081	.075	.067	.058	.044	.038	.034	.030
35	.938	.915	.766	.633	.550	.472	.411	.284	.153	.145	.137	.129	.083	.079	.071	.063	.048	.042	.036	.032
36	.942	.919	.772	.643	.560	.480	.421	.290	.157	.149	.141	.133	.085	.081	.075	.067	.052	.046	.040	.034
37	.946	.923	.778	.653	.569	.488	.431	.296	.161	.153	.145	.137	.087	.083	.079	.071	.056	.050	.044	.036
38	.950	.927	.784	.663	.577	.494	.442	.302	.165	.157	.149	.141	.089	.085	.081	.075	.060	.054	.048	.038
39	.954	.931	.790	.673	.585	.500	.450	.308	.169	.161	.153	.145	.091	.087	.083	.079	.065	.058	.052	.040
40	.958	.935	.796	.683	.593	.506	.458	.315	.173	.165	.157	.149	.093	.089	.085	.081	.069	.063	.056	.042

TOTAL OBSERVATIONS 496

TABLE 3. 8.a.  $P(W \geq W^*)$  I CONSECUTIVE LAUNCH OPPORTUNITIES IN J PERIODS ( $W^* = 60$  M/SEC).  
 BASED ON MAXIMUM WIND SPEEDS IN THE 10-15 KM LAYER OVER CAPE KENNEDY, FLORIDA.  
 PERIOD OF RECORD JANUARY 1956 - DECEMBER 1963.

CAPE KENNEDY, FLORIDA MARCH

SPEEDS GREATER THAN OR EQUAL TO 060 MPS

P ( I SUCCESSES IN J PERIODS )

	I																			
J	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
1	.319																			
2	.419	.220																		
3	.494	.310	.155																	
4	.552	.393	.212	.127																
5	.603	.456	.282	.165	.107															
6	.639	.513	.347	.218	.147	.087														
7	.667	.560	.413	.276	.177	.111	.069													
8	.694	.593	.458	.341	.228	.143	.085	.056												
9	.712	.631	.496	.365	.282	.194	.107	.067	.048											
10	.730	.655	.536	.427	.315	.246	.151	.081	.054	.042										
11	.750	.677	.571	.464	.353	.278	.198	.119	.060	.048	.036									
12	.770	.698	.595	.502	.385	.315	.232	.155	.087	.054	.042	.030								
13	.788	.720	.611	.530	.423	.349	.268	.183	.115	.077	.048	.036	.024							
14	.802	.744	.629	.550	.450	.389	.304	.216	.135	.099	.067	.042	.028	.020						
15	.817	.766	.651	.565	.480	.409	.345	.254	.159	.119	.085	.058	.032	.024	.016					
16	.827	.790	.671	.581	.498	.442	.365	.290	.198	.139	.097	.077	.044	.028	.020	.012				
17	.841	.808	.690	.597	.514	.464	.397	.308	.228	.181	.109	.085	.063	.036	.024	.016	.008			
18	.853	.823	.718	.623	.528	.482	.423	.339	.244	.208	.149	.093	.073	.052	.028	.020	.010	.006		
19	.865	.835	.736	.643	.552	.498	.446	.363	.272	.224	.167	.133	.081	.063	.038	.024	.012	.008	.004	
20	.873	.851	.750	.663	.573	.520	.462	.391	.296	.246	.175	.149	.123	.071	.044	.032	.014	.010	.006	.002
21	.881	.863	.764	.681	.591	.540	.486	.409	.331	.260	.196	.157	.133	.119	.048	.038	.020	.012	.008	.004
22	.887	.873	.778	.696	.615	.558	.506	.433	.357	.288	.206	.173	.141	.125	.099	.042	.026	.016	.010	.006
23	.893	.881	.788	.714	.633	.583	.520	.454	.385	.323	.222	.181	.157	.131	.103	.095	.030	.022	.012	.008
24	.899	.887	.796	.728	.653	.605	.542	.466	.409	.355	.290	.192	.165	.147	.107	.099	.085	.026	.016	.010
25	.905	.893	.802	.738	.673	.625	.567	.484	.425	.379	.286	.212	.173	.151	.123	.103	.089	.083	.018	.014
26	.909	.901	.808	.744	.690	.645	.591	.502	.450	.395	.319	.242	.185	.157	.127	.119	.093	.087	.075	.016
27	.913	.905	.819	.750	.702	.661	.613	.524	.470	.421	.341	.270	.204	.167	.133	.123	.109	.091	.081	.071
28	.917	.909	.825	.760	.714	.673	.631	.544	.494	.446	.369	.292	.222	.179	.141	.129	.113	.107	.087	.077
29	.919	.913	.831	.766	.730	.688	.645	.558	.518	.472	.399	.317	.240	.192	.151	.135	.117	.111	.105	.083
30	.921	.915	.835	.774	.740	.706	.661	.569	.532	.500	.431	.345	.266	.202	.157	.147	.119	.115	.109	.103
31	.923	.917	.839	.778	.754	.716	.683	.581	.542	.516	.444	.379	.292	.222	.163	.151	.129	.117	.113	.107
32	.925	.919	.843	.782	.764	.730	.696	.603	.552	.524	.486	.421	.321	.244	.173	.155	.131	.127	.115	.111
33	.929	.921	.845	.786	.772	.740	.710	.617	.571	.532	.500	.452	.361	.266	.190	.161	.133	.129	.125	.113
34	.933	.923	.847	.790	.776	.752	.720	.631	.585	.546	.512	.474	.397	.296	.208	.173	.137	.131	.125	.125
35	.938	.925	.849	.794	.780	.758	.736	.641	.601	.554	.528	.494	.425	.329	.230	.188	.147	.135	.125	.125
36	.942	.927	.851	.798	.784	.764	.744	.657	.613	.567	.536	.514	.442	.361	.252	.204	.163	.141	.127	.125
37	.946	.929	.853	.802	.788	.768	.752	.667	.631	.577	.544	.524	.478	.389	.276	.222	.179	.153	.129	.127
38	.950	.931	.855	.806	.792	.772	.756	.677	.647	.589	.556	.532	.494	.419	.304	.236	.200	.167	.133	.129
39	.954	.933	.855	.813	.796	.776	.760	.683	.661	.601	.569	.540	.510	.433	.335	.260	.212	.185	.139	.131
40	.958	.935	.855	.815	.804	.780	.764	.690	.669	.611	.583	.552	.524	.450	.355	.278	.236	.198	.151	.133

TOTAL OBSERVATIONS 496

TABLE 3. 8.b. P(W ≥ W<sub>0</sub>; I LAUNCH OPPORTUNITIES IN J PERIODS (W<sub>0</sub> = 60 M/SEC).  
 BASED ON MAXIMUM WIND SPEEDS IN THE 10-15 KM LAYER OVER CAPE KENNEDY, FLORIDA.  
 PERIOD OF RECORD JANUARY 1956 - DECEMBER 1963.

CAPE KENNEDY, FLORIDA MARCH

SPEEDS GREATER THAN OR EQUAL TO 065 MPS

PC ( I CONSECUTIVE SUCCESSES IN J PERIODS )

J	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
1	.202																			
2	.270	.135																		
3	.327	.179	.093																	
4	.377	.224	.117	.071																
5	.425	.264	.141	.083	.058															
6	.472	.304	.165	.095	.071	.046														
7	.508	.339	.188	.107	.083	.056	.036													
8	.540	.373	.208	.119	.095	.067	.046	.026												
9	.571	.403	.226	.129	.107	.077	.056	.034	.018											
10	.593	.433	.246	.139	.117	.087	.067	.042	.022	.014										
11	.617	.462	.264	.147	.127	.095	.077	.050	.026	.018	.010									
12	.639	.492	.282	.155	.137	.103	.085	.058	.030	.022	.012	.008								
13	.661	.522	.300	.161	.145	.111	.093	.065	.034	.026	.014	.010	.006							
14	.683	.550	.319	.167	.153	.119	.101	.071	.036	.030	.016	.012	.008	.004						
15	.704	.579	.337	.173	.159	.127	.109	.077	.038	.032	.018	.014	.010	.006	.002					
16	.726	.603	.355	.179	.165	.135	.117	.083	.040	.034	.018	.016	.012	.008	.004	.000				
17	.748	.625	.373	.185	.171	.143	.125	.089	.042	.036	.018	.016	.014	.010	.006	.000	.000			
18	.768	.647	.389	.192	.177	.151	.133	.095	.044	.038	.018	.016	.014	.012	.008	.000	.000	.000		
19	.786	.669	.403	.198	.183	.159	.141	.101	.046	.040	.018	.016	.014	.012	.010	.000	.000	.000	.000	
20	.802	.690	.417	.202	.190	.167	.149	.107	.048	.042	.018	.016	.014	.012	.010	.000	.000	.000	.000	.000
21	.817	.708	.431	.206	.196	.175	.157	.113	.050	.044	.018	.016	.014	.012	.010	.000	.000	.000	.000	.000
22	.829	.726	.444	.210	.200	.183	.163	.119	.052	.046	.018	.016	.014	.012	.010	.000	.000	.000	.000	.000
23	.841	.742	.456	.214	.204	.192	.169	.123	.054	.048	.018	.016	.014	.012	.010	.000	.030	.000	.000	.000
24	.851	.754	.468	.218	.208	.198	.175	.127	.056	.050	.018	.016	.014	.012	.010	.000	.030	.000	.000	.000
25	.861	.766	.480	.222	.212	.202	.181	.131	.058	.052	.018	.016	.014	.012	.010	.000	.030	.000	.000	.000
26	.869	.776	.492	.226	.218	.206	.185	.135	.060	.054	.018	.016	.014	.012	.010	.000	.000	.000	.000	.000
27	.877	.786	.504	.230	.222	.212	.188	.139	.063	.056	.018	.016	.014	.012	.010	.000	.000	.000	.000	.000
28	.885	.796	.516	.234	.226	.218	.190	.141	.065	.058	.018	.016	.014	.012	.010	.000	.000	.000	.000	.000
29	.891	.806	.528	.238	.230	.222	.192	.141	.067	.060	.018	.016	.014	.012	.010	.000	.000	.000	.000	.000
30	.895	.817	.538	.242	.234	.226	.194	.141	.069	.063	.018	.016	.014	.012	.010	.000	.000	.000	.000	.000
31	.899	.827	.548	.246	.238	.230	.196	.141	.071	.065	.018	.016	.014	.012	.010	.000	.000	.000	.000	.000
32	.903	.837	.558	.250	.242	.234	.198	.141	.073	.067	.018	.016	.014	.012	.010	.000	.000	.000	.000	.000
33	.907	.847	.569	.254	.246	.238	.200	.141	.075	.069	.018	.016	.014	.012	.010	.000	.000	.000	.000	.000
34	.911	.855	.579	.258	.250	.242	.202	.141	.077	.071	.018	.016	.014	.012	.010	.000	.000	.000	.000	.000
35	.915	.863	.587	.262	.254	.246	.204	.141	.079	.073	.018	.016	.014	.012	.010	.000	.000	.000	.000	.000
36	.919	.871	.595	.264	.258	.250	.206	.141	.081	.075	.018	.016	.014	.012	.010	.000	.000	.000	.000	.000
37	.923	.879	.603	.266	.260	.254	.208	.141	.083	.077	.018	.016	.014	.012	.010	.000	.000	.000	.000	.000
38	.927	.887	.611	.268	.262	.256	.210	.141	.085	.079	.018	.016	.014	.012	.010	.000	.000	.000	.000	.000
39	.931	.895	.617	.270	.264	.258	.210	.141	.087	.081	.018	.016	.014	.012	.010	.000	.000	.000	.000	.000
40	.933	.901	.623	.272	.266	.260	.210	.141	.089	.083	.018	.016	.014	.012	.010	.000	.000	.000	.000	.000

TOTAL OBSERVATIONS 496

TABLE 3. 9.a. P(W ≥ W\*) I CONSECUTIVE LAUNCH OPPORTUNITIES IN J PERIODS (W\* = 65 M/SEC).

BASED ON MAXIMUM WIND SPEEDS IN THE 10-15 KM LAYER OVER CAPE KENNEDY, FLORIDA.

PERIOD OF RECORD JANUARY 1956 - DECEMBER 1963.

CAPE KENNEDY, FLORIDA MARCH  
SPEEDS GREATER THAN OR EQUAL TO 065 MPS

P ( I SUCCESSES IN J PERIODS )

I

J	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
1	.202																			
2	.270	.135																		
3	.327	.192	.093																	
4	.377	.240	.131	.071																
5	.425	.286	.165	.093	.058															
6	.472	.323	.204	.115	.077	.046														
7	.508	.365	.228	.149	.097	.058	.036													
8	.540	.397	.264	.171	.125	.077	.046	.026												
9	.571	.429	.290	.204	.143	.101	.063	.034	.018											
10	.593	.464	.317	.228	.167	.117	.085	.048	.022	.014										
11	.617	.492	.345	.250	.185	.137	.099	.069	.032	.018	.010									
12	.639	.522	.371	.274	.198	.155	.119	.079	.048	.028	.012	.008								
13	.661	.546	.401	.296	.212	.169	.135	.097	.054	.042	.020	.010	.006							
14	.683	.569	.425	.327	.222	.185	.151	.107	.069	.048	.034	.014	.008	.004						
15	.704	.593	.442	.357	.240	.196	.173	.119	.075	.060	.042	.024	.010	.006	.002					
16	.726	.613	.460	.371	.266	.212	.185	.139	.083	.067	.052	.034	.014	.008	.004	.000				
17	.748	.635	.474	.387	.280	.230	.204	.149	.103	.073	.058	.044	.020	.010	.006	.000	.000			
18	.768	.657	.492	.401	.290	.248	.216	.167	.115	.091	.065	.050	.028	.012	.008	.000	.000	.000		
19	.786	.679	.508	.421	.298	.260	.230	.173	.141	.099	.083	.056	.034	.014	.010	.000	.000	.000	.000	
20	.802	.700	.528	.435	.315	.270	.242	.179	.147	.127	.087	.077	.040	.016	.010	.000	.000	.000	.000	.000
21	.817	.718	.548	.454	.329	.286	.250	.185	.153	.133	.113	.081	.063	.018	.010	.000	.000	.000	.000	.000
22	.829	.734	.567	.476	.347	.300	.260	.190	.159	.139	.119	.107	.069	.036	.010	.000	.000	.000	.000	.000
23	.841	.746	.585	.496	.367	.313	.274	.194	.161	.145	.127	.113	.097	.040	.024	.000	.000	.000	.000	.000
24	.851	.760	.601	.514	.389	.331	.284	.204	.163	.149	.133	.123	.105	.067	.026	.012	.000	.000	.000	.000
25	.861	.770	.621	.532	.407	.351	.296	.210	.169	.153	.135	.131	.110	.081	.042	.014	.010	.000	.000	.000
26	.869	.782	.637	.552	.427	.367	.313	.218	.175	.159	.137	.133	.129	.103	.052	.026	.012	.008	.000	.000
27	.877	.792	.653	.571	.450	.385	.325	.230	.181	.165	.139	.135	.131	.117	.081	.030	.022	.010	.006	.000
28	.885	.802	.667	.587	.470	.407	.339	.238	.192	.171	.141	.137	.133	.123	.099	.052	.026	.018	.008	.004
29	.891	.813	.681	.603	.488	.429	.355	.248	.198	.177	.145	.139	.135	.129	.105	.075	.044	.022	.014	.006
30	.895	.825	.696	.617	.506	.450	.373	.258	.206	.181	.149	.143	.137	.133	.113	.083	.067	.038	.018	.010
31	.899	.835	.710	.633	.524	.466	.391	.272	.212	.188	.149	.147	.141	.135	.121	.091	.077	.060	.032	.014
32	.903	.845	.720	.647	.546	.482	.403	.288	.222	.192	.151	.147	.145	.139	.125	.101	.087	.069	.056	.026
33	.907	.853	.730	.659	.565	.502	.415	.300	.234	.198	.151	.149	.145	.143	.131	.107	.097	.079	.065	.052
34	.911	.861	.738	.671	.581	.522	.429	.315	.244	.206	.151	.149	.147	.143	.137	.117	.103	.089	.075	.060
35	.915	.869	.746	.679	.597	.540	.448	.325	.254	.214	.153	.149	.147	.145	.139	.127	.113	.095	.085	.071
36	.919	.877	.754	.688	.609	.558	.464	.341	.264	.224	.155	.151	.147	.145	.143	.133	.121	.107	.091	.081
37	.923	.885	.762	.696	.619	.571	.482	.355	.278	.234	.159	.153	.147	.145	.143	.139	.129	.113	.105	.087
38	.927	.893	.770	.704	.627	.583	.492	.373	.292	.246	.163	.155	.147	.145	.143	.141	.135	.123	.109	.103
39	.931	.899	.776	.712	.637	.591	.502	.387	.306	.262	.167	.157	.147	.145	.143	.141	.137	.131	.117	.107
40	.933	.907	.780	.720	.647	.599	.508	.399	.323	.276	.177	.159	.147	.145	.143	.141	.139	.135	.123	.115

TOTAL OBSERVATIONS 496

TABLE 3. 9.b. P(W ≥ W\*) I LAUNCH OPPORTUNITIES IN J PERIODS (W\* = 65 M/SEC).  
BASED ON MAXIMUM WIND SPEEDS IN THE 10-15 KM LAYER OVER CAPE KENNEDY, FLORIDA.  
PERIOD OF RECORD JANUARY 1956 - DECEMBER 1963.



CAPE KENNEDY, FLORIDA MARCH  
SPEEDS GREATER THAN OR EQUAL TO 070 MPS

PC ( I CONSECUTIVE SUCCESSES IN J PERIODS )

	I																			
J	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
1	.137																			
2	.192	.083																		
3	.236	.113	.052																	
4	.274	.145	.071	.034																
5	.313	.171	.089	.044	.024															
6	.347	.196	.107	.054	.032	.016														
7	.375	.220	.125	.065	.040	.020	.012													
8	.405	.242	.143	.075	.048	.024	.016	.008												
9	.433	.264	.161	.085	.055	.028	.020	.010	.006											
10	.456	.284	.179	.095	.065	.032	.024	.012	.008	.004										
11	.478	.302	.198	.105	.073	.036	.028	.014	.010	.006	.002									
12	.496	.323	.212	.115	.081	.040	.032	.016	.012	.008	.004	.000								
13	.514	.343	.224	.123	.089	.044	.036	.018	.014	.010	.006	.000	.000							
14	.532	.361	.236	.129	.095	.048	.040	.020	.016	.012	.008	.000	.000	.000						
15	.548	.379	.248	.135	.101	.050	.044	.022	.018	.014	.010	.000	.000	.000	.000					
16	.567	.397	.260	.141	.107	.052	.046	.024	.020	.016	.012	.000	.000	.000	.000	.000				
17	.585	.411	.272	.147	.113	.054	.048	.024	.022	.018	.014	.000	.000	.000	.000	.000	.000			
18	.601	.425	.286	.153	.119	.056	.050	.024	.022	.020	.016	.000	.000	.000	.000	.000	.000	.000		
19	.617	.440	.298	.161	.125	.058	.052	.024	.022	.020	.018	.000	.000	.000	.000	.000	.000	.000	.000	
20	.633	.452	.310	.169	.133	.060	.054	.024	.022	.020	.018	.000	.000	.000	.000	.000	.000	.000	.000	.000
21	.649	.464	.321	.175	.141	.063	.056	.024	.022	.020	.018	.000	.000	.000	.000	.000	.000	.000	.000	.000
22	.665	.476	.329	.181	.149	.065	.058	.024	.022	.020	.018	.000	.000	.000	.000	.000	.000	.000	.000	.000
23	.679	.488	.337	.188	.155	.067	.060	.024	.022	.020	.018	.000	.000	.000	.000	.000	.000	.000	.000	.000
24	.694	.500	.345	.194	.161	.069	.063	.024	.022	.020	.018	.000	.000	.000	.000	.000	.000	.000	.000	.000
25	.706	.512	.353	.200	.167	.071	.065	.024	.022	.020	.018	.000	.000	.000	.000	.000	.000	.000	.000	.000
26	.714	.524	.361	.206	.173	.073	.067	.024	.022	.020	.018	.000	.000	.000	.000	.000	.000	.000	.000	.000
27	.722	.536	.369	.212	.179	.075	.069	.024	.022	.020	.018	.000	.000	.000	.000	.000	.000	.000	.000	.000
28	.730	.546	.377	.218	.185	.077	.071	.024	.022	.020	.018	.000	.000	.000	.000	.000	.000	.000	.000	.000
29	.738	.556	.385	.224	.192	.079	.073	.024	.022	.020	.018	.000	.000	.000	.000	.000	.000	.000	.000	.000
30	.744	.567	.393	.230	.198	.081	.075	.024	.022	.020	.018	.000	.000	.000	.000	.000	.000	.000	.000	.000
31	.750	.577	.401	.236	.204	.083	.077	.024	.022	.020	.018	.000	.000	.000	.000	.000	.000	.000	.000	.000
32	.756	.587	.409	.240	.210	.085	.079	.024	.022	.020	.018	.000	.000	.000	.000	.000	.000	.000	.000	.000
33	.760	.595	.419	.244	.216	.087	.081	.024	.022	.020	.018	.000	.000	.000	.000	.000	.000	.000	.000	.000
34	.764	.603	.429	.248	.222	.089	.083	.024	.022	.020	.018	.000	.000	.000	.000	.000	.000	.000	.000	.000
35	.768	.611	.438	.252	.228	.091	.085	.024	.022	.020	.018	.000	.000	.000	.000	.000	.000	.000	.000	.000
36	.772	.617	.446	.256	.234	.093	.087	.024	.022	.020	.018	.000	.000	.000	.000	.000	.000	.000	.000	.000
37	.776	.623	.452	.260	.240	.095	.089	.024	.022	.020	.018	.000	.000	.000	.000	.000	.000	.000	.000	.000
38	.780	.629	.458	.262	.246	.097	.091	.024	.022	.020	.018	.000	.000	.000	.000	.000	.000	.000	.000	.000
39	.784	.635	.464	.264	.250	.099	.093	.024	.022	.020	.018	.000	.000	.000	.000	.000	.000	.000	.000	.000
40	.786	.639	.470	.266	.254	.101	.095	.024	.022	.020	.018	.000	.000	.000	.000	.000	.000	.000	.000	.000

TOTAL OBSRVATIONS 496

TABLE 3.10.a.  $P(W \geq W^*)$  I CONSECUTIVE LAUNCH OPPORTUNITIES IN J PERIODS ( $W^* = 70$  M/SEC).  
BASED ON MAXIMUM WIND SPEEDS IN THE 10-15 KM LAYER OVER CAPE KENNEDY, FLORIDA.  
PERIOD OF RECORD JANUARY 1956 - DECEMBER 1963.

CAPE KENNEDY, FLORIDA MARCH  
 SPEEDS GREATER THAN OR EQUAL TO 070 MPS

P ( I SUCCESSES IN J PERIODS )

	I																			
J	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
1	.137																			
2	.192	.083																		
3	.236	.125	.052																	
4	.274	.159	.087	.034																
5	.313	.15	.113	.060	.024															
6	.347	.214	.135	.079	.046	.016														
7	.375	.242	.157	.099	.058	.032	.012													
8	.405	.264	.181	.117	.075	.042	.024	.008												
9	.433	.286	.202	.139	.087	.056	.037	.018	.006											
10	.456	.308	.222	.157	.105	.065	.040	.024	.014	.004										
11	.478	.327	.240	.177	.117	.081	.044	.036	.018	.010	.002									
12	.496	.349	.258	.192	.135	.089	.056	.040	.030	.012	.008	.000								
13	.514	.367	.276	.206	.153	.099	.063	.050	.036	.020	.010	.004	.000							
14	.532	.385	.290	.220	.169	.113	.069	.056	.044	.028	.014	.006	.002	.000						
15	.548	.405	.302	.234	.182	.127	.079	.060	.050	.036	.020	.008	.004	.000	.000					
16	.567	.419	.317	.244	.202	.137	.089	.069	.054	.042	.028	.010	.006	.000	.000	.000				
17	.585	.435	.327	.252	.212	.157	.099	.075	.060	.046	.034	.014	.008	.000	.000	.000	.000			
18	.601	.454	.339	.260	.218	.171	.117	.083	.067	.050	.036	.020	.010	.000	.000	.000	.000	.000		
19	.617	.468	.355	.268	.224	.181	.127	.103	.073	.054	.038	.022	.014	.000	.000	.000	.000	.000	.000	
20	.633	.482	.365	.282	.230	.190	.133	.117	.089	.058	.040	.024	.016	.000	.000	.000	.000	.000	.000	.000
21	.649	.496	.375	.292	.240	.196	.135	.123	.105	.073	.042	.026	.018	.000	.000	.000	.000	.000	.000	.000
22	.665	.510	.385	.302	.248	.204	.137	.127	.113	.089	.052	.028	.020	.000	.000	.000	.000	.000	.000	.000
23	.679	.526	.395	.313	.256	.214	.141	.129	.119	.099	.067	.036	.022	.000	.000	.000	.000	.000	.000	.000
24	.694	.542	.405	.323	.264	.222	.149	.133	.123	.105	.077	.050	.028	.000	.000	.000	.000	.000	.000	.000
25	.706	.560	.415	.333	.272	.230	.153	.139	.129	.109	.085	.060	.040	.002	.000	.000	.000	.000	.000	.000
26	.714	.581	.427	.343	.280	.238	.157	.141	.135	.117	.091	.069	.050	.010	.000	.000	.000	.000	.000	.030
27	.722	.597	.446	.353	.288	.246	.161	.145	.137	.125	.101	.075	.058	.016	.006	.000	.000	.000	.000	.000
28	.730	.611	.460	.369	.296	.254	.165	.147	.141	.129	.109	.087	.063	.024	.012	.002	.000	.000	.000	.000
29	.738	.625	.474	.383	.308	.262	.167	.149	.145	.135	.113	.095	.075	.028	.020	.006	.000	.000	.000	.000
30	.744	.641	.486	.399	.319	.272	.169	.149	.147	.141	.119	.101	.081	.040	.024	.012	.002	.000	.000	.000
31	.750	.653	.500	.413	.333	.280	.173	.149	.147	.145	.127	.109	.087	.044	.036	.014	.008	.000	.000	.000
32	.756	.665	.510	.429	.345	.292	.175	.151	.147	.145	.135	.117	.097	.048	.040	.024	.012	.002	.000	.000
33	.760	.675	.520	.442	.359	.304	.179	.151	.149	.145	.137	.129	.107	.056	.044	.028	.020	.006	.000	.000
34	.764	.685	.530	.454	.371	.319	.183	.151	.149	.147	.139	.131	.121	.071	.048	.030	.026	.012	.002	.000
35	.768	.694	.540	.466	.383	.333	.188	.153	.149	.147	.143	.133	.125	.091	.056	.032	.028	.020	.006	.000
36	.772	.702	.548	.478	.393	.349	.192	.155	.149	.147	.145	.137	.129	.097	.079	.034	.030	.024	.014	.000
37	.776	.708	.558	.488	.403	.363	.198	.157	.149	.147	.145	.141	.131	.105	.091	.046	.032	.028	.018	.004
38	.780	.714	.565	.500	.411	.377	.204	.159	.149	.147	.145	.143	.135	.109	.101	.060	.038	.030	.024	.006
39	.784	.718	.571	.510	.421	.387	.212	.161	.145	.147	.145	.143	.137	.115	.105	.079	.044	.034	.026	.012
40	.786	.724	.575	.520	.429	.399	.220	.163	.149	.147	.145	.143	.137	.121	.109	.087	.060	.038	.028	.014

TOTAL OBSERVATIONS 496

TABLE 3.10.b. P(W ≥ W<sub>0</sub>) I LAUNCH OPPORTUNITIES IN J PERIODS (W<sub>0</sub> = 70 M/SEC).  
 BASED ON MAXIMUM WIND SPEEDS IN THE 10-15 KM LAYER OVER CAPE KENNEDY, FLORIDA.  
 PERIOD OF RECORD JANUARY 1956 - DECEMBER 1963.

CAPF KENNEDY , FLORIDA MARCH

SPEEDS GREATER THAN OR EQUAL TO 075 MPS

PC ( I CONSECUTIVE SUCCESSES IN J PERIODS )

	I																			
J	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
1	.085																			
2	.123	.046																		
3	.155	.060	.032																	
4	.183	.077	.042	.022																
5	.214	.089	.052	.030	.014															
6	.238	.101	.063	.038	.020	.008														
7	.260	.113	.073	.046	.026	.012	.004													
8	.282	.125	.083	.054	.032	.016	.008	.000												
9	.302	.137	.093	.063	.038	.020	.012	.000	.000											
10	.319	.149	.103	.071	.044	.024	.016	.000	.000	.000										
11	.337	.159	.113	.079	.050	.028	.020	.000	.000	.000	.000									
12	.355	.171	.123	.087	.056	.032	.024	.000	.000	.000	.000	.000								
13	.373	.183	.133	.095	.063	.036	.028	.000	.000	.000	.000	.000	.000							
14	.391	.196	.143	.103	.069	.040	.032	.000	.000	.000	.000	.000	.000	.000						
15	.409	.208	.151	.111	.075	.044	.036	.000	.000	.000	.000	.000	.000	.000	.000					
16	.423	.220	.159	.117	.081	.048	.040	.000	.000	.000	.000	.000	.000	.000	.000	.000				
17	.440	.230	.167	.123	.085	.052	.044	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000			
18	.456	.240	.175	.129	.089	.054	.048	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000		
19	.472	.250	.181	.135	.093	.056	.050	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	
20	.486	.260	.188	.141	.097	.058	.052	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
21	.498	.268	.194	.145	.101	.060	.054	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
22	.510	.274	.200	.149	.105	.063	.056	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
23	.522	.280	.206	.153	.109	.065	.058	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
24	.534	.288	.212	.157	.113	.067	.060	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
25	.546	.296	.218	.161	.117	.069	.063	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
26	.558	.304	.224	.165	.121	.071	.065	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
27	.569	.313	.230	.169	.125	.073	.067	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
28	.579	.321	.236	.173	.129	.075	.069	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
29	.589	.329	.242	.177	.133	.077	.071	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
30	.599	.337	.248	.181	.137	.079	.073	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
31	.607	.345	.254	.185	.141	.081	.075	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
32	.615	.353	.260	.190	.145	.083	.077	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
33	.619	.359	.268	.194	.149	.085	.079	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
34	.623	.365	.276	.198	.153	.087	.081	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
35	.627	.371	.282	.202	.157	.089	.083	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
36	.631	.375	.288	.206	.161	.091	.085	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
37	.635	.379	.292	.210	.165	.093	.087	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
38	.639	.383	.296	.212	.169	.095	.089	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
39	.643	.387	.300	.214	.171	.097	.091	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
40	.645	.391	.304	.216	.173	.099	.093	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000

TOTAL OBSERVATIONS 496

TABLE 3.11.a. P(W ≥ W\*) I CONSECUTIVE LAUNCH OPPORTUNITIES IN J PERIODS (W\* = 75 M/SEC).  
 BASED ON MAXIMUM WIND SPEEDS IN THE 10-15 KM LAYER OVER CAPE KENNEDY, FLORIDA.  
 PERIOD OF RECORD JANUARY 1956 - DECEMBER 1963.

CAPE KENNEDY, FLORIDA MARCH  
 SPEEDS GREATER THAN OR EQUAL TO 075 MPS

P ( I SUCCESSES IN J PERIODS )

J	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
1	.085																			
2	.123	.046																		
3	.155	.069	.032																	
4	.183	.087	.052	.022																
5	.214	.101	.067	.040	.014															
6	.238	.121	.077	.052	.030	.008														
7	.260	.141	.089	.063	.038	.022	.004													
8	.282	.161	.099	.077	.046	.028	.016	.000												
9	.302	.179	.113	.087	.058	.034	.020	.008	.000											
10	.319	.196	.129	.099	.067	.044	.024	.012	.004	.000										
11	.337	.206	.147	.111	.077	.050	.032	.016	.008	.000	.000									
12	.355	.218	.159	.127	.089	.056	.036	.024	.012	.000	.000	.000								
13	.373	.230	.169	.139	.103	.065	.040	.030	.018	.000	.000	.000	.000							
14	.391	.242	.179	.149	.115	.075	.044	.034	.024	.002	.000	.000	.000	.000						
15	.409	.252	.192	.159	.125	.083	.050	.038	.028	.006	.000	.000	.000	.000	.000					
16	.423	.264	.200	.173	.133	.091	.056	.042	.032	.010	.000	.000	.000	.000	.000	.000				
17	.440	.276	.206	.183	.147	.099	.060	.046	.036	.014	.000	.000	.000	.000	.000	.000	.000			
18	.456	.288	.212	.192	.155	.115	.065	.048	.040	.018	.000	.000	.000	.000	.000	.000	.000	.000		
19	.472	.302	.218	.200	.163	.123	.077	.050	.042	.020	.002	.000	.000	.000	.000	.000	.000	.000	.000	
20	.486	.317	.224	.206	.173	.131	.081	.060	.044	.022	.004	.000	.000	.000	.000	.000	.000	.000	.000	.000
21	.498	.329	.230	.212	.179	.141	.087	.063	.054	.024	.006	.000	.000	.000	.000	.000	.000	.000	.000	.000
22	.510	.341	.236	.218	.185	.145	.097	.067	.058	.032	.008	.000	.000	.000	.000	.000	.000	.000	.000	.000
23	.522	.353	.244	.224	.192	.149	.103	.073	.063	.038	.014	.000	.000	.000	.000	.000	.000	.000	.000	.000
24	.534	.365	.252	.232	.199	.153	.107	.079	.067	.042	.022	.002	.000	.000	.000	.000	.000	.000	.000	.000
25	.546	.377	.260	.240	.204	.157	.111	.085	.071	.044	.028	.008	.000	.000	.000	.000	.000	.000	.000	.000
26	.558	.389	.268	.248	.210	.161	.115	.091	.075	.046	.032	.012	.004	.000	.000	.000	.000	.000	.000	.000
27	.569	.403	.276	.256	.216	.165	.117	.099	.079	.048	.036	.014	.008	.002	.000	.000	.000	.000	.000	.000
28	.579	.417	.284	.264	.222	.169	.119	.105	.085	.050	.038	.018	.012	.004	.000	.000	.000	.000	.000	.000
29	.589	.431	.290	.272	.228	.173	.121	.109	.091	.054	.040	.020	.016	.008	.000	.000	.000	.000	.000	.000
30	.599	.444	.296	.280	.234	.177	.123	.113	.095	.058	.044	.022	.018	.012	.002	.000	.000	.000	.000	.000
31	.607	.462	.302	.286	.242	.181	.125	.117	.099	.060	.048	.026	.020	.014	.006	.000	.000	.000	.000	.000
32	.615	.472	.315	.292	.248	.190	.127	.119	.105	.063	.050	.030	.024	.016	.010	.000	.000	.000	.000	.000
33	.619	.482	.323	.302	.254	.194	.135	.121	.109	.067	.052	.032	.028	.020	.014	.000	.000	.000	.000	.000
34	.623	.492	.331	.310	.262	.198	.137	.129	.113	.071	.054	.034	.030	.026	.016	.002	.000	.000	.000	.000
35	.627	.500	.339	.319	.270	.202	.139	.131	.123	.075	.056	.036	.032	.028	.022	.004	.000	.000	.000	.000
36	.631	.508	.345	.325	.280	.206	.141	.133	.127	.083	.058	.038	.034	.030	.026	.008	.000	.000	.000	.000
37	.635	.516	.351	.329	.286	.212	.143	.135	.129	.091	.067	.040	.036	.032	.028	.014	.000	.000	.000	.000
38	.639	.522	.357	.333	.290	.218	.145	.137	.131	.093	.075	.046	.038	.034	.030	.018	.002	.000	.000	.000
39	.643	.528	.363	.337	.294	.222	.147	.139	.133	.095	.079	.054	.042	.036	.032	.022	.004	.000	.000	.000
40	.645	.534	.369	.341	.298	.224	.149	.141	.135	.097	.083	.058	.050	.038	.034	.024	.008	.000	.000	.000

TOTAL OBSERVATIONS 496

TABLE 3.11.b. P(N ≥ M) I LAUNCH OPPORTUNITIES IN J PERIODS (M = 75 M/SEC).  
 BASED ON MAXIMUM WIND SPEEDS IN THE 10-15 KM LAYER OVER CAPE KENNEDY, FLORIDA.  
 PERIOD OF RECORD JANUARY 1956 - DECEMBER 1963.

CAPE KENNEDY , FLORIDA MARCH  
 SPEEDS GREATER THAN OR EQUAL TO 080 MPS

PC ( I CONSECUTIVE SUCCESSES IN J PERIODS )

	I																			
J	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
1	.050																			
2	.071	.030																		
3	.091	.040	.020																	
4	.109	.052	.028	.012																
5	.125	.063	.036	.018	.006															
6	.139	.073	.044	.024	.008	.004														
7	.153	.083	.052	.030	.010	.006	.002													
8	.167	.091	.060	.036	.012	.008	.004	.000												
9	.181	.099	.069	.042	.014	.010	.006	.000	.000											
10	.194	.107	.077	.048	.016	.012	.008	.000	.000	.000										
11	.204	.113	.085	.054	.018	.014	.010	.000	.000	.000	.000									
12	.214	.119	.093	.060	.020	.016	.012	.000	.000	.000	.000	.000								
13	.224	.125	.101	.067	.022	.018	.014	.000	.000	.000	.000	.000	.000							
14	.234	.131	.109	.073	.024	.020	.016	.000	.000	.000	.000	.000	.000	.000						
15	.242	.137	.115	.079	.026	.022	.018	.000	.000	.000	.000	.000	.000	.000	.000					
16	.250	.143	.121	.083	.028	.024	.020	.000	.000	.000	.000	.000	.000	.000	.000	.000				
17	.256	.147	.127	.087	.028	.026	.022	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000			
18	.262	.151	.133	.091	.028	.026	.024	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000		
19	.270	.155	.137	.095	.028	.026	.024	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	
20	.278	.159	.141	.099	.028	.026	.024	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
21	.284	.163	.145	.101	.028	.026	.024	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
22	.290	.167	.149	.103	.028	.026	.024	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
23	.296	.171	.153	.105	.028	.026	.024	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
24	.302	.177	.157	.107	.028	.026	.024	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
25	.308	.183	.161	.109	.028	.026	.024	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
26	.315	.190	.165	.111	.028	.026	.024	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
27	.321	.196	.169	.113	.028	.026	.024	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
28	.327	.202	.173	.115	.028	.026	.024	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
29	.333	.208	.177	.117	.028	.026	.024	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
30	.339	.214	.181	.119	.028	.026	.024	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
31	.345	.220	.185	.121	.028	.026	.024	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
32	.351	.226	.190	.123	.028	.026	.024	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
33	.353	.232	.194	.125	.028	.026	.024	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
34	.355	.238	.198	.127	.028	.026	.024	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
35	.357	.244	.202	.129	.028	.026	.024	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
36	.359	.250	.206	.131	.028	.026	.024	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
37	.361	.256	.210	.133	.028	.026	.024	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
38	.363	.260	.214	.135	.028	.026	.024	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
39	.365	.264	.216	.137	.028	.026	.024	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
40	.367	.268	.218	.139	.028	.026	.024	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000

TOTAL OBSERVATIONS 496

TABLE 3.12.a. P(W ≥ W<sub>0</sub>) I CONSECUTIVE LAUNCH OPPORTUNITIES IN J PERIODS (W<sub>0</sub> = 80 M/SEC).  
 BASED ON MAXIMUM WIND SPEEDS IN THE 10-15 KM LAYER OVER CAPE KENNEDY, FLORIDA.  
 PERIOD OF RECORD JANUARY 1956 - DECEMBER 1963.

CAPE KENNEDY, FLORIDA MARSH  
SPEEDS GREATER THAN OR EQUAL TO 80 MPS

P ( I SUCCESSES IN J PERIODS )

	I																			
J	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
1	.050																			
2	.071	.030																		
3	.091	.042	.020																	
4	.109	.054	.032	.012																
5	.125	.067	.042	.022	.006															
6	.139	.079	.052	.030	.012	.004														
7	.153	.087	.065	.038	.016	.010	.002													
8	.167	.095	.073	.050	.020	.012	.008	.000												
9	.181	.103	.081	.058	.028	.014	.010	.004	.000											
10	.194	.111	.089	.067	.034	.018	.012	.006	.002	.000										
11	.204	.119	.097	.075	.040	.022	.014	.008	.004	.000	.000									
12	.214	.127	.105	.083	.046	.026	.016	.010	.006	.000	.000	.000								
13	.224	.135	.111	.091	.052	.030	.018	.012	.008	.000	.000	.000	.000							
14	.234	.143	.117	.097	.058	.034	.020	.014	.010	.000	.000	.000	.000	.000						
15	.242	.153	.123	.103	.063	.038	.022	.016	.012	.000	.000	.000	.000	.000	.000					
16	.250	.159	.133	.109	.067	.040	.024	.018	.014	.000	.000	.000	.000	.000	.000	.000				
17	.256	.167	.137	.121	.071	.042	.024	.020	.016	.000	.000	.000	.000	.000	.000	.000	.000			
18	.262	.175	.141	.125	.083	.044	.024	.020	.018	.000	.000	.000	.000	.000	.000	.000	.000	.000		
19	.270	.183	.145	.129	.089	.052	.024	.020	.018	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	
20	.278	.190	.151	.133	.095	.056	.028	.020	.018	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
21	.284	.196	.155	.139	.099	.063	.030	.022	.018	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
22	.290	.202	.159	.143	.105	.067	.034	.024	.018	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
23	.296	.210	.163	.147	.107	.075	.036	.028	.018	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
24	.302	.218	.169	.151	.109	.079	.042	.030	.020	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
25	.308	.226	.175	.155	.111	.083	.044	.036	.022	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
26	.315	.234	.181	.159	.113	.087	.046	.038	.028	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
27	.321	.242	.188	.163	.115	.091	.048	.040	.032	.002	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
28	.327	.250	.194	.167	.117	.095	.050	.042	.036	.004	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
29	.333	.258	.200	.171	.119	.099	.052	.044	.038	.008	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
30	.339	.266	.206	.175	.121	.103	.054	.046	.040	.010	.002	.000	.000	.000	.000	.000	.000	.000	.000	.000
31	.345	.274	.212	.179	.123	.107	.056	.048	.042	.012	.004	.000	.000	.000	.000	.000	.000	.000	.000	.000
32	.351	.282	.220	.183	.125	.111	.058	.050	.044	.014	.006	.000	.000	.000	.000	.000	.000	.000	.000	.000
33	.353	.290	.228	.188	.127	.115	.060	.052	.046	.016	.008	.000	.000	.000	.000	.000	.000	.000	.000	.000
34	.355	.298	.236	.192	.129	.119	.063	.054	.048	.018	.010	.000	.000	.000	.000	.000	.000	.000	.000	.000
35	.357	.306	.242	.198	.131	.123	.065	.056	.050	.020	.012	.000	.000	.000	.000	.000	.000	.000	.000	.000
36	.359	.315	.248	.202	.135	.127	.067	.058	.052	.022	.014	.000	.000	.000	.000	.000	.000	.000	.000	.000
37	.361	.319	.254	.206	.137	.131	.071	.060	.054	.024	.016	.000	.000	.000	.000	.000	.000	.000	.000	.000
38	.363	.323	.258	.210	.139	.133	.075	.065	.056	.026	.018	.000	.000	.000	.000	.000	.000	.000	.000	.000
39	.365	.327	.262	.212	.141	.135	.079	.067	.060	.028	.020	.000	.000	.000	.000	.000	.000	.000	.000	.000
40	.367	.331	.264	.214	.143	.137	.083	.069	.063	.032	.022	.030	.000	.000	.000	.000	.000	.000	.000	.000

TOTAL OBSERVATIONS 496

TABLE 3.12.b. P(W ≥ W<sub>0</sub>) I LAUNCH OPPORTUNITIES IN J PERIODS (W<sub>0</sub> = 80 M/SEC).  
BASED ON MAXIMUM WIND SPEEDS IN THE 10-15 KM LAYER OVER CAPE KENNEDY, FLORIDA.  
PERIOD OF RECORD JANUARY 1956 - DECEMBER 1965.

CAPE KENNEDY , FLORIDA MARCH

SPEEDS GREATER THAN OR EQUAL TO 085 MPS

PC ( I CONSECUTIVE SUCCESSES IN J PERIODS )

J	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
1	.024																			
2	.034	.014																		
3	.044	.018	.010																	
4	.052	.022	.012	.008																
5	.060	.026	.014	.010	.006															
6	.069	.030	.016	.012	.008	.004														
7	.077	.034	.018	.014	.010	.006	.002													
8	.085	.038	.020	.016	.012	.008	.004	.000												
9	.093	.042	.022	.018	.014	.010	.006	.000	.000											
10	.099	.046	.024	.020	.016	.012	.008	.000	.000	.000										
11	.105	.050	.026	.022	.018	.014	.010	.000	.000	.000	.000									
12	.111	.054	.028	.024	.020	.016	.012	.000	.000	.000	.000	.000								
13	.117	.058	.030	.026	.022	.018	.014	.000	.000	.000	.000	.000	.000							
14	.123	.060	.032	.028	.024	.020	.016	.000	.000	.000	.000	.000	.000	.000						
15	.129	.063	.032	.030	.026	.022	.018	.000	.000	.000	.000	.000	.000	.000	.000					
16	.135	.065	.032	.030	.028	.024	.020	.000	.000	.000	.000	.000	.000	.000	.000	.000				
17	.141	.067	.032	.030	.028	.026	.022	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000			
18	.147	.069	.032	.030	.028	.026	.024	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000		
19	.155	.071	.032	.030	.028	.026	.024	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	
20	.163	.073	.032	.030	.028	.026	.024	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
21	.171	.075	.032	.030	.028	.026	.024	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
22	.179	.077	.032	.030	.028	.026	.024	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
23	.188	.079	.032	.030	.028	.026	.024	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
24	.194	.083	.032	.030	.028	.026	.024	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
25	.200	.087	.032	.030	.028	.026	.024	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
26	.206	.091	.032	.030	.028	.026	.024	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
27	.212	.095	.032	.030	.028	.026	.024	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
28	.218	.099	.032	.030	.028	.026	.024	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
29	.224	.103	.032	.030	.028	.026	.024	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
30	.230	.107	.032	.030	.028	.026	.024	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
31	.236	.111	.032	.030	.028	.026	.024	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
32	.242	.115	.032	.030	.028	.026	.024	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
33	.248	.119	.032	.030	.028	.026	.024	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
34	.254	.123	.032	.030	.028	.026	.024	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
35	.260	.127	.032	.030	.028	.026	.024	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
36	.266	.131	.032	.030	.028	.026	.024	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
37	.270	.135	.032	.030	.028	.026	.024	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
38	.274	.137	.032	.030	.028	.026	.024	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
39	.278	.139	.032	.030	.028	.026	.024	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
40	.280	.141	.032	.030	.028	.026	.024	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000

TOTAL OBSERVATIONS 496

TABLE 3.13.a. P( $\geq W_0$ ) I CONSECUTIVE LAUNCH OPPORTUNITIES IN J PERIODS ( $W_0 = 85$  M/SEC).  
 BASED ON MAXIMUM WIND SPEEDS IN THE 10-15 KM LAYER OVER CAPE KENNEDY, FLORIDA.  
 PERIOD OF RECORD JANUARY 1956 - DECEMBER 1963.

CAPE KENNEDY . FLORIDA MARCH  
 SPEEDS GREATER THAN OR EQUAL TO 085 MP5

P ( I SUCCESSES IN J PERIODS )

	I																			
J	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
1	.024																			
2	.034	.014																		
3	.044	.020	.010																	
4	.052	.028	.012	.008																
5	.060	.034	.016	.010	.006															
6	.069	.040	.018	.014	.008	.004														
7	.077	.046	.020	.016	.012	.006	.002													
8	.085	.052	.022	.018	.014	.010	.004	.000												
9	.093	.058	.024	.020	.016	.012	.008	.000	.000											
10	.099	.065	.026	.022	.018	.014	.010	.002	.000	.000										
11	.105	.071	.028	.024	.020	.016	.012	.004	.000	.000	.000									
12	.111	.077	.030	.026	.022	.018	.014	.006	.000	.000	.000	.000								
13	.117	.081	.032	.028	.024	.020	.016	.008	.000	.000	.000	.000	.000							
14	.123	.085	.032	.030	.026	.022	.018	.010	.000	.000	.000	.000	.000	.000						
15	.129	.089	.032	.030	.028	.024	.020	.012	.000	.000	.000	.000	.000	.000	.000					
16	.135	.093	.032	.030	.028	.026	.022	.014	.000	.000	.000	.000	.000	.000	.000	.000				
17	.141	.097	.032	.030	.028	.026	.024	.016	.000	.000	.000	.000	.000	.000	.000	.000	.000			
18	.147	.101	.032	.030	.028	.026	.024	.018	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000		
19	.155	.105	.032	.030	.028	.026	.024	.018	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	
20	.163	.109	.032	.030	.028	.026	.024	.018	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
21	.171	.113	.032	.030	.028	.026	.024	.018	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
22	.179	.117	.032	.030	.028	.026	.024	.018	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
23	.188	.123	.032	.030	.028	.026	.024	.018	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
24	.194	.131	.034	.030	.028	.026	.024	.018	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
25	.200	.139	.036	.030	.028	.026	.024	.018	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
26	.206	.145	.040	.030	.028	.026	.024	.018	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
27	.212	.151	.044	.030	.028	.026	.024	.018	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
28	.218	.157	.048	.030	.028	.026	.024	.018	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
29	.224	.163	.052	.030	.028	.026	.024	.018	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
30	.230	.169	.056	.030	.028	.026	.024	.018	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
31	.236	.175	.060	.030	.028	.026	.024	.018	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
32	.242	.183	.065	.030	.028	.026	.024	.018	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
33	.248	.192	.069	.030	.028	.026	.024	.018	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
34	.254	.200	.073	.030	.028	.026	.024	.018	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
35	.260	.208	.077	.030	.028	.026	.024	.018	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
36	.266	.216	.081	.030	.028	.026	.024	.018	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
37	.270	.224	.085	.030	.028	.026	.024	.018	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
38	.274	.230	.089	.030	.028	.026	.024	.018	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
39	.278	.236	.093	.030	.028	.026	.024	.018	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
40	.280	.242	.097	.030	.028	.026	.024	.018	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000

TOTAL OBSERVATIONS 496

TABLE 3.13.b. P(W ≥ W\*) I LAUNCH OPPORTUNITIES IN J PERIODS (W\* = 85 M/SEC).  
 BASED ON MAXIMUM WIND SPEEDS IN THE 10-15 KM LAYER OVER CAPE KENNEDY, FLORIDA.  
 PERIOD OF RECORD JANUARY 1956 - DECEMBER 1963.



CAPE KENNEDY , FLORIDA MARCH

SPEEDS GREATER THAN OR EQUAL TO 900 M/S

PC ( I CONSECUTIVE SUCCESSES IN J PERIODS )

	I																			
J	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
1	.014																			
2	.018	.010																		
3	.022	.014	.006																	
4	.026	.018	.008	.004																
5	.030	.022	.010	.006	.002															
6	.034	.026	.012	.008	.004	.000														
7	.038	.030	.014	.010	.006	.000	.000													
8	.042	.034	.016	.012	.008	.000	.000	.000												
9	.046	.038	.018	.014	.010	.000	.000	.000	.000											
10	.050	.042	.020	.016	.012	.000	.000	.000	.000	.000										
11	.054	.046	.022	.018	.014	.000	.000	.000	.000	.000	.000									
12	.058	.050	.024	.020	.016	.000	.000	.000	.000	.000	.000	.000								
13	.063	.054	.026	.022	.018	.000	.000	.000	.000	.000	.000	.000	.000							
14	.065	.058	.028	.024	.020	.000	.000	.000	.000	.000	.000	.000	.000	.000						
15	.067	.060	.030	.026	.022	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000					
16	.069	.063	.030	.028	.024	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000				
17	.071	.065	.030	.028	.026	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000			
18	.073	.067	.030	.028	.026	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000		
19	.075	.069	.030	.028	.026	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	
20	.077	.071	.030	.028	.026	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	
21	.079	.073	.030	.028	.026	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	
22	.081	.075	.030	.028	.026	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	
23	.085	.077	.030	.028	.026	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	
24	.089	.079	.030	.028	.026	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	
25	.093	.081	.030	.028	.026	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	
26	.097	.083	.030	.028	.026	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	
27	.101	.085	.030	.028	.026	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	
28	.105	.087	.030	.028	.026	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	
29	.109	.089	.030	.028	.026	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	
30	.113	.091	.030	.028	.026	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	
31	.117	.093	.030	.028	.026	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	
32	.121	.095	.030	.028	.026	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	
33	.125	.097	.030	.028	.026	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	
34	.129	.099	.030	.028	.026	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	
35	.133	.101	.030	.028	.026	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	
36	.137	.103	.030	.028	.026	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	
37	.139	.105	.030	.028	.026	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	
38	.141	.105	.030	.028	.026	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	
39	.143	.105	.030	.028	.026	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	
40	.145	.105	.030	.028	.026	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	

TOTAL OBSERVATIONS 496

TABLE 3.14.a. P(N ≥ N<sub>0</sub>) I CONSECUTIVE LAUNCH OPPORTUNITIES IN J PERIODS (N<sub>0</sub> = 90 M/SEC).  
BASED ON MAXIMUM WIND SPEEDS IN THE 10-15 KM LAYER OVER CAPE KENNEDY, FLORIDA.

PERIOD OF RECORD JANUARY 1956 - DECEMBER 1963.

CAPE KENNEDY , FLORIDA MARCH  
 SPEEDS GREATER THAN OR EQUAL TO 090 MPS

P ( I SUCCESSES IN J PERIODS )

J	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
1	.014																			
2	.018	.010																		
3	.022	.014	.006																	
4	.026	.018	.008	.004																
5	.030	.022	.010	.006	.002															
6	.034	.026	.012	.008	.004	.000														
7	.038	.030	.014	.010	.006	.000	.000													
8	.042	.034	.016	.012	.008	.000	.000	.000												
9	.046	.038	.018	.014	.010	.000	.000	.000	.000											
10	.050	.042	.020	.016	.012	.000	.000	.000	.000	.000										
11	.054	.046	.022	.018	.014	.000	.000	.000	.000	.000	.000									
12	.058	.050	.024	.020	.016	.000	.000	.000	.000	.000	.000	.000								
13	.063	.054	.026	.022	.018	.000	.000	.000	.000	.000	.000	.000	.000							
14	.065	.058	.028	.024	.020	.000	.000	.000	.000	.000	.000	.000	.000	.000						
15	.067	.060	.030	.026	.022	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000					
16	.069	.063	.030	.028	.024	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000				
17	.071	.065	.030	.028	.026	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000			
18	.073	.067	.030	.028	.026	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000		
19	.075	.069	.030	.028	.026	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	
20	.077	.071	.030	.028	.026	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
21	.079	.073	.030	.028	.026	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
22	.081	.075	.030	.028	.026	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
23	.085	.077	.030	.028	.026	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
24	.089	.079	.030	.028	.026	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
25	.093	.081	.030	.028	.026	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
26	.097	.083	.030	.028	.026	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
27	.101	.085	.030	.028	.026	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
28	.105	.087	.030	.028	.026	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
29	.109	.089	.030	.028	.026	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
30	.113	.091	.030	.028	.026	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
31	.117	.093	.030	.028	.026	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
32	.121	.095	.030	.028	.026	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
33	.125	.097	.030	.028	.026	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
34	.129	.099	.030	.028	.026	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
35	.133	.101	.030	.028	.026	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
36	.137	.103	.030	.028	.026	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
37	.139	.105	.030	.028	.026	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
38	.141	.105	.030	.028	.026	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
39	.143	.105	.030	.028	.026	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
40	.145	.105	.030	.028	.026	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000

TOTAL OBSERVATIONS 496

TABLE 3.14.b. P(W ≥ W\*) I LAUNCH OPPORTUNITIES IN J PERIODS (W\* = 90 M/SEC).  
 BASED ON MAXIMUM WIND SPEEDS IN THE 10-15 KM LAYER OVER CAPE KENNEDY, FLORIDA.  
 PERIOD OF RECORD JANUARY 1956 - DECEMBER 1963.

CAPE KENNEDY, FLORIDA MARCH  
 SPEEDS GREATER THAN OR EQUAL TO 095 MPS

PC ( I CONSECUTIVE SUCCESSSES IN J PERIODS )

	I																			
J	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
1	.012																			
2	.016	.008																		
3	.020	.012	.004																	
4	.024	.016	.006	.002																
5	.028	.020	.008	.004	.000															
6	.032	.024	.010	.006	.000	.000														
7	.036	.028	.012	.008	.000	.000	.000													
8	.040	.032	.014	.010	.000	.000	.000	.000												
9	.044	.036	.016	.012	.000	.000	.000	.000	.000											
10	.048	.040	.018	.014	.000	.000	.000	.000	.000	.000										
11	.052	.044	.020	.016	.000	.000	.000	.000	.000	.000	.000									
12	.056	.048	.022	.018	.000	.000	.000	.000	.000	.000	.000	.000								
13	.060	.052	.024	.020	.000	.000	.000	.000	.000	.000	.000	.000	.000							
14	.063	.056	.026	.022	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000						
15	.065	.058	.028	.024	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000					
16	.067	.060	.028	.026	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000				
17	.069	.063	.028	.026	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000			
18	.071	.065	.028	.026	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000		
19	.073	.067	.028	.026	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	
20	.075	.069	.028	.026	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
21	.077	.071	.028	.026	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
22	.079	.073	.028	.026	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
23	.083	.075	.028	.026	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
24	.087	.077	.028	.026	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
25	.091	.079	.028	.026	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
26	.095	.081	.028	.026	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
27	.099	.083	.028	.026	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
28	.103	.085	.028	.026	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
29	.107	.087	.028	.026	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
30	.111	.089	.028	.026	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
31	.115	.091	.028	.026	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
32	.119	.093	.028	.026	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
33	.123	.095	.028	.026	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
34	.127	.097	.028	.026	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
35	.131	.099	.028	.026	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
36	.135	.101	.028	.026	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
37	.137	.103	.028	.026	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
38	.139	.103	.028	.026	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
39	.141	.103	.028	.026	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
40	.143	.103	.028	.026	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000

TOTAL OBSERVATIONS 496

TABLE 3.15.a.  $P(W \geq W_0)$  I CONSECUTIVE LAUNCH OPPORTUNITIES IN J PERIODS ( $W_0 = 95$  M/SEC).  
 BASED ON MAXIMUM WIND SPEEDS IN THE 10-15 KM LAYER OVER CAPE KENNEDY, FLORIDA.  
 PERIOD OF RECORD JANUARY 1956 - DECEMBER 1963.

CAPE KENNEDY, FLORIDA MARCH  
 SPEEDS GREATER THAN OR EQUAL TO 095 MPS

P ( I SUCCESSES IN J PERIODS )

J	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
1	.012																			
2	.016	.008																		
3	.020	.012	.004																	
4	.024	.016	.006	.002																
5	.028	.020	.008	.004	.000															
6	.032	.024	.010	.006	.000	.000														
7	.036	.028	.012	.008	.000	.000	.000													
8	.040	.032	.014	.010	.000	.000	.000	.000												
9	.044	.036	.016	.012	.000	.000	.000	.000	.000											
10	.048	.040	.018	.014	.000	.000	.000	.000	.000	.000										
11	.052	.044	.020	.016	.000	.000	.000	.000	.000	.000	.000									
12	.056	.048	.022	.018	.000	.000	.000	.000	.000	.000	.000	.000								
13	.060	.052	.024	.020	.000	.000	.000	.000	.000	.000	.000	.000	.000							
14	.063	.056	.026	.022	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000						
15	.065	.058	.028	.024	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000					
16	.067	.060	.028	.026	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000				
17	.069	.063	.028	.026	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000			
18	.071	.065	.028	.026	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000		
19	.073	.067	.028	.026	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	
20	.075	.069	.028	.026	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
21	.077	.071	.028	.026	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
22	.079	.073	.028	.026	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
23	.083	.075	.028	.026	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
24	.087	.077	.028	.026	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
25	.091	.079	.028	.026	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
26	.095	.081	.028	.026	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
27	.099	.083	.028	.026	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
28	.103	.085	.028	.026	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
29	.107	.087	.028	.026	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
30	.111	.089	.028	.026	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
31	.115	.091	.028	.026	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
32	.119	.093	.028	.026	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
33	.123	.095	.028	.026	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
34	.127	.097	.028	.026	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
35	.131	.099	.028	.026	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
36	.135	.101	.028	.026	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
37	.137	.103	.028	.026	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
38	.139	.103	.028	.026	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
39	.141	.103	.028	.026	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
40	.143	.103	.028	.026	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000

TOTAL OBSERVATIONS 496

TABLE 3.15.b. P(W ≥ W\*) I LAUNCH OPPORTUNITIES IN J PERIODS (W\* = 95 M/SEC).  
 BASED ON MAXIMUM WIND SPEEDS IN THE 10-15 KM LAYER OVER CAPE KENNEDY, FLORIDA.  
 PERIOD OF RECORD JANUARY 1956 - DECEMBER 1969.

CAPE KENNEDY, FLORIDA APRIL

SPEEDS GREATER THAN OR EQUAL TO 015 MPS

PC ( I CONSECUTIVE SUCCESSES IN J PERIODS )

J	I																			
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
1	.952																			
2	.965	.940																		
3	.973	.952	.925																	
4	.977	.965	.935	.913																
5	.981	.973	.946	.923	.898															
6	.985	.977	.958	.933	.908	.883														
7	.990	.981	.965	.946	.919	.894	.869													
8	.994	.985	.967	.958	.931	.904	.879	.854												
9	.998	.990	.969	.964	.944	.917	.890	.865	.842											
10	1.00	.994	.971	.967	.956	.929	.902	.875	.852	.829										
11	1.00	.998	.973	.969	.963	.942	.915	.888	.863	.840	.815									
12	1.00	1.00	.975	.971	.965	.954	.927	.900	.875	.850	.825	.800								
13	1.00	1.00	.977	.973	.969	.960	.940	.913	.888	.863	.835	.810	.785							
14	1.00	1.00	.979	.975	.971	.965	.952	.925	.900	.875	.848	.821	.796	.771						
15	1.00	1.00	.981	.977	.973	.969	.960	.938	.913	.888	.860	.833	.806	.781	.756					
16	1.00	1.00	.983	.979	.975	.971	.965	.952	.925	.900	.873	.846	.819	.792	.767	.742				
17	1.00	1.00	.985	.981	.977	.973	.969	.960	.940	.913	.885	.858	.831	.804	.777	.750	.729			
18	1.00	1.00	.988	.983	.979	.975	.971	.965	.954	.927	.898	.871	.844	.817	.790	.758	.738	.717		
19	1.00	1.00	.990	.985	.981	.977	.973	.969	.960	.942	.913	.883	.856	.829	.802	.769	.746	.725	.702	
20	1.00	1.00	.992	.988	.983	.979	.975	.971	.965	.954	.927	.898	.869	.842	.815	.779	.756	.733	.710	.688
21	1.00	1.00	.994	.990	.985	.981	.977	.973	.969	.960	.940	.913	.883	.854	.827	.790	.767	.744	.719	.696
22	1.00	1.00	.996	.992	.988	.983	.979	.975	.971	.965	.954	.925	.898	.869	.840	.800	.777	.754	.729	.704
23	1.00	1.00	.998	.994	.990	.985	.981	.977	.973	.969	.960	.940	.910	.883	.854	.810	.788	.765	.740	.715
24	1.00	1.00	1.00	.996	.992	.988	.983	.979	.975	.971	.965	.954	.925	.896	.869	.823	.798	.775	.750	.725
25	1.00	1.00	1.00	.998	.994	.990	.985	.981	.977	.973	.969	.960	.940	.910	.881	.835	.810	.785	.760	.735
26	1.00	1.00	1.00	1.00	.996	.992	.988	.983	.979	.975	.971	.965	.954	.925	.896	.846	.823	.798	.771	.746
27	1.00	1.00	1.00	1.00	.998	.994	.990	.985	.981	.977	.973	.969	.960	.940	.910	.858	.833	.810	.783	.756
28	1.00	1.00	1.00	1.00	1.00	.996	.992	.988	.983	.979	.975	.971	.965	.954	.925	.871	.844	.821	.796	.769
29	1.00	1.00	1.00	1.00	1.00	.998	.994	.990	.985	.981	.977	.973	.969	.960	.940	.883	.854	.831	.806	.781
30	1.00	1.00	1.00	1.00	1.00	1.00	.996	.992	.988	.983	.979	.975	.971	.965	.954	.896	.865	.842	.817	.792
31	1.00	1.00	1.00	1.00	1.00	1.00	.998	.994	.990	.985	.981	.977	.973	.969	.960	.908	.875	.852	.827	.802
32	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.996	.992	.988	.983	.979	.975	.971	.965	.921	.885	.863	.838	.813
33	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.998	.994	.990	.985	.981	.977	.973	.969	.927	.896	.873	.848	.823
34	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.996	.992	.988	.983	.979	.975	.971	.933	.906	.883	.858	.833
35	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.998	.994	.990	.985	.981	.977	.973	.940	.913	.894	.869	.844
36	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.996	.992	.988	.983	.979	.975	.944	.919	.904	.879	.854
37	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.998	.994	.990	.985	.981	.977	.948	.925	.910	.890	.865
38	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.996	.992	.988	.983	.979	.952	.929	.917	.900	.875
39	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.998	.994	.990	.985	.981	.956	.933	.923	.906	.885
40	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.996	.992	.988	.983	.960	.938	.927	.913	.894

TOTAL OBSERVATIONS 480

TABLE 4. 1.a. P(W ≥ W\*) I CONSECUTIVE LAUNCH OPPORTUNITIES IN J PERIODS (W\* = 15 M/SEC).  
 BASED ON MAXIMUM WIND SPEEDS IN THE 10-15 KM LAYER OVER CAPE KENNEDY, FLORIDA.  
 PERIOD OF RECORD JANUARY 1956 - DECEMBER 1963.

CAPE KENNEDY . FLORIDA APRIL  
SPEEDS GREATER THAN OR EQUAL TO 015 MPS

P ( I SUCCESSES IN J PERIODS )

	I																			
J	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
1	.952																			
2	.965	.940																		
3	.973	.956	.925																	
4	.977	.969	.946	.913																
5	.981	.973	.960	.940	.898															
6	.985	.977	.963	.958	.933	.883														
7	.990	.981	.965	.960	.956	.925	.869													
8	.994	.985	.967	.963	.958	.952	.917	.854												
9	.998	.990	.969	.965	.960	.956	.948	.908	.842											
10	1.00	.996	.971	.967	.963	.958	.954	.944	.902	.829										
11	1.00	1.00	.977	.969	.965	.960	.956	.952	.940	.896	.815									
12	1.00	1.00	.983	.975	.967	.963	.958	.954	.950	.935	.890	.800								
13	1.00	1.00	.985	.981	.973	.965	.960	.956	.952	.944	.931	.883	.785							
14	1.00	1.00	.988	.983	.979	.971	.963	.958	.954	.950	.946	.927	.877	.771						
15	1.00	1.00	.990	.985	.981	.977	.969	.960	.956	.952	.948	.944	.923	.871	.756					
16	1.00	1.00	.992	.988	.983	.979	.975	.967	.958	.954	.950	.946	.942	.919	.865	.742				
17	1.00	1.00	.994	.990	.985	.981	.977	.973	.965	.956	.952	.948	.944	.940	.915	.856	.729			
18	1.00	1.00	.996	.992	.988	.983	.979	.975	.971	.963	.954	.950	.946	.942	.938	.908	.850	.717		
19	1.00	1.00	.998	.994	.990	.985	.981	.977	.973	.969	.960	.952	.948	.944	.940	.935	.902	.844	.702	
20	1.00	1.00	1.00	.996	.992	.988	.983	.979	.975	.971	.967	.958	.950	.946	.942	.938	.933	.896	.835	.688
21	1.00	1.00	1.00	1.00	.994	.990	.985	.981	.977	.973	.969	.965	.956	.948	.944	.940	.935	.931	.888	.827
22	1.00	1.00	1.00	1.00	1.00	.992	.988	.983	.979	.975	.971	.967	.963	.954	.946	.942	.938	.933	.927	.879
23	1.00	1.00	1.00	1.00	1.00	1.00	.990	.985	.981	.977	.973	.969	.965	.960	.952	.944	.940	.935	.929	.923
24	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.988	.983	.979	.975	.971	.967	.963	.958	.950	.942	.938	.933	.925
25	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.985	.981	.977	.973	.969	.965	.960	.956	.948	.940	.935	.929
26	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.983	.979	.975	.971	.967	.963	.958	.954	.946	.938	.933
27	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.981	.977	.973	.969	.965	.960	.956	.952	.944	.935
28	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.979	.975	.971	.967	.963	.958	.954	.950	.942
29	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.977	.973	.969	.965	.960	.956	.952	.948
30	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.975	.971	.967	.963	.958	.954	.950
31	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.973	.969	.965	.960	.956	.952
32	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.971	.967	.963	.958	.954
33	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.969	.965	.960	.956
34	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.967	.963	.958
35	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.965	.960
36	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.963
37	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
38	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
39	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
40	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00

TOTAL OBSERVATIONS 480

TABLE 4. 1.b. P(N ≥ W) I LAUNCH OPPORTUNITIES IN J PERIODS (W = 15 M/SEC).  
BASED ON MAXIMUM WIND SPEEDS IN THE 10-15 KM LAYER OVER CAPE KENNEDY, FLORIDA.  
PERIOD OF RECORD JANUARY 1956 - DECEMBER 1963.

CAPE KENNEDY . FLORIDA APRIL

SPEEDS GREATER THAN OR EQUAL TO 020 MPS

PC ( I CONSECUTIVE SUCCESSES IN J PERIODS )

	I																			
J	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
1	.904																			
2	.923	.879																		
3	.940	.896	.856																	
4	.952	.917	.873	.833																
5	.958	.933	.894	.846	.815															
6	.963	.950	.915	.863	.827	.796														
7	.967	.958	.931	.879	.844	.808	.777													
8	.971	.963	.948	.898	.860	.825	.790	.758												
9	.973	.967	.956	.915	.879	.842	.806	.769	.740											
10	.975	.971	.960	.931	.898	.860	.823	.783	.750	.717										
11	.977	.973	.965	.940	.915	.879	.842	.798	.765	.727	.694									
12	.979	.975	.971	.946	.931	.898	.860	.815	.779	.742	.704	.671								
13	.981	.977	.973	.954	.940	.915	.879	.831	.796	.756	.719	.677	.652							
14	.983	.979	.975	.963	.948	.931	.898	.848	.813	.773	.733	.688	.658	.633						
15	.985	.981	.977	.967	.956	.942	.915	.865	.829	.790	.750	.698	.669	.640	.615					
16	.988	.983	.979	.971	.963	.950	.933	.881	.846	.806	.767	.710	.679	.650	.619	.598				
17	.990	.985	.981	.975	.967	.956	.944	.900	.863	.823	.783	.723	.692	.660	.627	.602	.581			
18	.992	.988	.983	.979	.971	.963	.950	.919	.883	.840	.800	.735	.704	.673	.635	.610	.585	.565		
19	.994	.990	.985	.981	.975	.967	.956	.927	.902	.858	.817	.748	.717	.685	.646	.619	.594	.569	.550	
20	.996	.992	.988	.983	.979	.971	.963	.933	.919	.877	.835	.760	.729	.698	.656	.629	.602	.577	.554	.535
21	.998	.994	.990	.985	.981	.975	.967	.940	.927	.894	.854	.775	.742	.710	.667	.640	.613	.585	.563	.540
22	1.00	.996	.992	.988	.983	.979	.971	.946	.933	.910	.871	.790	.756	.723	.677	.650	.623	.596	.571	.548
23	1.00	.998	.994	.990	.985	.981	.975	.952	.940	.919	.888	.802	.771	.738	.688	.660	.633	.606	.581	.556
24	1.00	1.00	.996	.992	.988	.983	.979	.958	.946	.925	.904	.815	.783	.752	.700	.671	.644	.617	.592	.567
25	1.00	1.00	.998	.994	.990	.985	.981	.965	.952	.931	.913	.827	.796	.765	.713	.683	.654	.627	.602	.577
26	1.00	1.00	1.00	.996	.992	.988	.983	.971	.958	.938	.919	.840	.808	.777	.723	.696	.667	.638	.613	.588
27	1.00	1.00	1.00	.998	.994	.990	.985	.973	.965	.944	.925	.846	.821	.790	.733	.706	.679	.650	.623	.598
28	1.00	1.00	1.00	1.00	.996	.992	.988	.979	.971	.950	.931	.852	.833	.802	.744	.717	.690	.663	.633	.608
29	1.00	1.00	1.00	1.00	.998	.994	.990	.983	.975	.956	.938	.858	.840	.815	.754	.727	.700	.673	.644	.619
30	1.00	1.00	1.00	1.00	1.00	.996	.992	.988	.979	.963	.944	.865	.846	.827	.765	.738	.710	.683	.652	.629
31	1.00	1.00	1.00	1.00	1.00	.998	.994	.990	.983	.967	.950	.871	.852	.833	.775	.748	.721	.694	.660	.638
32	1.00	1.00	1.00	1.00	1.00	1.00	.996	.992	.988	.971	.956	.877	.858	.840	.785	.758	.731	.704	.669	.646
33	1.00	1.00	1.00	1.00	1.00	1.00	.998	.994	.990	.973	.960	.883	.865	.846	.794	.769	.742	.715	.677	.654
34	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.996	.992	.979	.965	.890	.871	.852	.802	.779	.752	.725	.685	.663
35	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.998	.994	.981	.969	.894	.877	.858	.810	.788	.763	.735	.694	.671
36	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.996	.983	.973	.895	.883	.865	.819	.796	.773	.746	.702	.679
37	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.998	.988	.975	.902	.888	.871	.827	.804	.781	.756	.710	.688
38	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.992	.979	.906	.892	.877	.835	.813	.790	.767	.719	.696
39	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.994	.983	.910	.896	.881	.844	.821	.798	.775	.727	.704
40	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.996	.988	.915	.900	.885	.852	.829	.806	.783	.733	.713

TOTAL OBSERVATIONS 480

TABLE 4. 2.a. P(W ≥ W<sub>0</sub>) I CONSECUTIVE LAUNCH OPPORTUNITIES IN J PERIODS (W<sub>0</sub> = 20 M/SEC).  
 BASED ON MAXIMUM WIND SPEEDS IN THE 10-15 KM LAYER OVER CAPE KENNEDY, FLORIDA.  
 PERIOD OF RECORD JANUARY 1956 - DECEMBER 1963.

CAPE KENNEDY, FLORIDA APRIL  
SPEEDS GREATER THAN OR EQUAL TO 20 MPS

P ( I SUCCESSSES IN J PERIODS )

	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
1	.904																			
2	.923	.879																		
3	.940	.902	.856																	
4	.952	.923	.883	.833																
5	.958	.946	.904	.860	.815															
6	.963	.954	.938	.879	.844	.796														
7	.967	.958	.948	.923	.860	.827	.777													
8	.971	.963	.952	.935	.915	.844	.810	.758												
9	.973	.969	.956	.942	.927	.908	.827	.792	.740											
10	.975	.971	.967	.948	.933	.921	.902	.808	.775	.717										
11	.977	.973	.969	.963	.942	.927	.915	.894	.792	.754	.694									
12	.979	.975	.971	.967	.958	.935	.921	.906	.888	.773	.738	.671								
13	.981	.977	.973	.969	.965	.954	.929	.913	.900	.881	.754	.715	.652							
14	.983	.979	.975	.971	.967	.963	.950	.921	.906	.894	.875	.729	.698	.633						
15	.985	.981	.977	.973	.969	.965	.960	.944	.915	.900	.888	.843	.710	.681	.615					
16	.988	.983	.979	.975	.971	.967	.963	.958	.938	.908	.894	.875	.854	.694	.663	.598				
17	.990	.985	.981	.977	.973	.969	.965	.960	.956	.931	.902	.881	.869	.846	.673	.646	.581			
18	.992	.988	.983	.979	.975	.971	.967	.963	.958	.954	.925	.890	.875	.863	.831	.656	.629	.565		
19	.994	.990	.985	.981	.977	.973	.969	.965	.960	.956	.952	.913	.883	.869	.852	.821	.640	.610	.550	
20	.996	.992	.988	.983	.979	.975	.971	.967	.963	.958	.954	.946	.904	.877	.860	.844	.806	.619	.596	.535
21	.998	.994	.990	.985	.981	.977	.973	.969	.965	.960	.956	.950	.942	.896	.871	.852	.831	.785	.604	.581
22	1.00	.996	.992	.988	.983	.979	.975	.971	.967	.963	.958	.954	.946	.938	.888	.865	.840	.815	.767	.590
23	1.00	1.00	.994	.990	.985	.981	.977	.973	.969	.965	.960	.956	.952	.942	.933	.879	.858	.825	.794	.752
24	1.00	1.00	1.00	.992	.988	.983	.979	.975	.971	.967	.963	.958	.954	.950	.938	.929	.871	.850	.804	.779
25	1.00	1.00	1.00	1.00	.990	.985	.981	.977	.973	.969	.965	.960	.956	.952	.948	.933	.925	.860	.835	.788
26	1.00	1.00	1.00	1.00	1.00	.988	.983	.979	.975	.971	.967	.963	.958	.954	.950	.946	.929	.921	.846	.821
27	1.00	1.00	1.00	1.00	1.00	1.00	.985	.981	.977	.973	.969	.965	.960	.956	.952	.948	.944	.925	.910	.829
28	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.983	.979	.975	.971	.967	.963	.958	.954	.950	.946	.942	.917	.896
29	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.981	.977	.973	.969	.965	.960	.956	.952	.948	.944	.935	.908
30	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.979	.975	.971	.967	.963	.958	.954	.950	.946	.940	.929
31	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.977	.973	.969	.965	.960	.956	.952	.948	.942	.935
32	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.975	.971	.967	.963	.958	.954	.950	.944	.938
33	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.973	.969	.965	.960	.956	.952	.946	.940
34	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.971	.967	.963	.958	.954	.950	.942
35	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.969	.965	.960	.956	.952	.948
36	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.967	.963	.958	.954	.950
37	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.965	.960	.956	.952
38	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.963	.958	.954
39	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.960	.956
40	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.958

TOTAL OBSERVATIONS 480

TABLE 4. 2.b.  $P(N \geq M) |$  LAUNCH OPPORTUNITIES IN J PERIODS ( $M = 20$  M/SEC).  
BASED ON MAXIMUM WIND SPEEDS IN THE 10-15 KM LAYER OVER CAPE KENNEDY, FLORIDA.  
PERIOD OF RECORD JANUARY 1956 - DECEMBER 1963.



CAPE KENNEDY, FLORIDA APRIL

SPEEDS GREATER THAN OR EQUAL TO 025 MPS

PC ( I CONSECUTIVE SUCCESSES IN J PERIODS )

J	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
1	.838																			
2	.869	.800																		
3	.888	.827	.767																	
4	.908	.854	.788	.738																
5	.923	.877	.808	.756	.710															
6	.938	.896	.833	.775	.727	.685														
7	.948	.913	.854	.798	.744	.700	.663													
8	.954	.927	.875	.823	.765	.715	.675	.640												
9	.960	.940	.892	.846	.785	.733	.688	.648	.619											
10	.965	.948	.908	.867	.808	.752	.704	.656	.627	.598										
11	.967	.954	.923	.883	.827	.773	.721	.669	.635	.606	.577									
12	.969	.960	.935	.900	.844	.794	.740	.681	.648	.615	.585	.554								
13	.973	.965	.944	.915	.856	.813	.758	.696	.660	.627	.594	.563	.531							
14	.977	.969	.952	.927	.869	.829	.777	.710	.673	.640	.606	.571	.538	.510						
15	.981	.973	.958	.935	.881	.842	.794	.725	.685	.652	.619	.583	.544	.515	.492					
16	.983	.977	.965	.944	.892	.854	.808	.740	.698	.665	.631	.596	.554	.519	.496	.473				
17	.985	.981	.971	.952	.898	.867	.821	.754	.710	.677	.644	.608	.565	.527	.500	.477	.456			
18	.988	.983	.977	.960	.904	.877	.833	.769	.723	.690	.656	.621	.575	.535	.508	.481	.460	.440		
19	.990	.985	.981	.969	.910	.883	.846	.781	.735	.702	.669	.633	.585	.544	.517	.488	.465	.444	.423	
20	.992	.988	.983	.977	.917	.890	.856	.796	.748	.715	.681	.646	.596	.552	.525	.494	.471	.448	.427	.406
21	.994	.990	.985	.981	.923	.896	.863	.810	.760	.727	.694	.658	.606	.560	.533	.500	.477	.452	.431	.410
22	.996	.992	.988	.983	.929	.902	.869	.823	.773	.742	.706	.671	.617	.569	.542	.506	.483	.456	.435	.415
23	.998	.994	.990	.985	.935	.908	.875	.831	.788	.754	.721	.683	.627	.577	.550	.513	.490	.460	.440	.419
24	1.00	.996	.992	.988	.940	.915	.881	.840	.802	.769	.735	.698	.638	.585	.558	.519	.496	.465	.444	.423
25	1.00	.998	.994	.990	.944	.921	.888	.848	.813	.783	.748	.713	.650	.594	.567	.525	.502	.469	.448	.427
26	1.00	1.00	.996	.992	.948	.925	.894	.856	.823	.794	.760	.727	.663	.604	.575	.531	.508	.473	.452	.431
27	1.00	1.00	.998	.994	.952	.929	.900	.865	.833	.808	.773	.740	.675	.615	.583	.538	.515	.477	.456	.435
28	1.00	1.00	1.00	.996	.956	.933	.904	.871	.844	.819	.785	.752	.688	.625	.592	.544	.521	.481	.460	.440
29	1.00	1.00	1.00	.998	.960	.938	.908	.877	.852	.829	.794	.765	.700	.635	.600	.550	.527	.485	.465	.444
30	1.00	1.00	1.00	1.00	.965	.942	.913	.883	.860	.838	.802	.777	.713	.646	.608	.556	.533	.490	.469	.448
31	1.00	1.00	1.00	1.00	.969	.946	.917	.890	.869	.846	.808	.785	.725	.656	.617	.563	.540	.494	.473	.452
32	1.00	1.00	1.00	1.00	.971	.950	.921	.896	.877	.854	.815	.792	.738	.667	.625	.569	.546	.498	.477	.456
33	1.00	1.00	1.00	1.00	.971	.954	.925	.902	.883	.863	.821	.798	.744	.677	.633	.575	.552	.502	.481	.460
34	1.00	1.00	1.00	1.00	.971	.958	.929	.908	.890	.871	.827	.804	.750	.688	.642	.581	.558	.506	.485	.465
35	1.00	1.00	1.00	1.00	.971	.960	.933	.915	.896	.877	.833	.810	.756	.696	.650	.588	.565	.510	.490	.469
36	1.00	1.00	1.00	1.00	.971	.963	.938	.923	.902	.885	.840	.817	.763	.704	.658	.594	.571	.515	.494	.473
37	1.00	1.00	1.00	1.00	.971	.965	.940	.929	.908	.890	.846	.823	.769	.713	.665	.600	.577	.519	.498	.477
38	1.00	1.00	1.00	1.00	.971	.967	.942	.935	.915	.896	.852	.829	.775	.721	.671	.606	.583	.523	.502	.481
39	1.00	1.00	1.00	1.00	.971	.969	.944	.938	.921	.902	.858	.835	.781	.729	.677	.610	.590	.527	.506	.485
40	1.00	1.00	1.00	1.00	.971	.969	.946	.940	.927	.908	.865	.842	.788	.738	.683	.615	.594	.531	.510	.490

TOTAL OBSERVATIONS 490

TABLE 4. 3.a.  $P(W \geq W^*)$  I CONSECUTIVE LAUNCH OPPORTUNITIES IN J PERIODS ( $W^* = 25$  M/SEC).

BASED ON MAXIMUM WIND SPEEDS IN THE 10-15 KM LAYER OVER CAPE KENNEDY, FLORIDA.

PERIOD OF RECORD JANUARY 1956 - DECEMBER 1963.

CAPE KENNEDY, FLORIDA APRIL  
 SPEEDS GREATER THAN OR EQUAL TO 025 MPS

P ( I SUCCESSES IN J PERIODS )

J	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
1	.838																			
2	.869	.800																		
3	.888	.840	.767																	
4	.908	.860	.808	.738																
5	.923	.885	.831	.781	.710															
6	.938	.902	.858	.806	.756	.685														
7	.948	.921	.877	.838	.783	.731	.663													
8	.954	.938	.900	.856	.819	.760	.706	.640												
9	.960	.944	.923	.883	.838	.800	.733	.679	.619											
10	.965	.952	.931	.910	.869	.819	.775	.704	.658	.598										
11	.967	.960	.942	.919	.902	.852	.794	.744	.685	.638	.577									
12	.969	.963	.956	.929	.910	.894	.829	.758	.727	.667	.617	.554								
13	.973	.965	.958	.948	.921	.902	.879	.792	.744	.710	.648	.596	.531							
14	.977	.969	.960	.954	.940	.913	.888	.848	.775	.729	.694	.629	.571	.510						
15	.981	.973	.965	.956	.950	.931	.898	.858	.835	.760	.715	.677	.604	.548	.492					
16	.983	.979	.969	.960	.952	.946	.917	.869	.850	.821	.746	.700	.654	.581	.527	.473				
17	.985	.981	.977	.965	.956	.948	.938	.885	.860	.840	.806	.731	.679	.635	.560	.506	.456			
18	.988	.983	.979	.975	.960	.952	.942	.910	.875	.850	.829	.790	.713	.660	.617	.540	.485	.440		
19	.990	.985	.981	.977	.973	.956	.948	.919	.900	.863	.840	.815	.771	.698	.640	.596	.519	.467	.423	
20	.992	.988	.983	.979	.975	.971	.952	.931	.908	.888	.852	.823	.800	.756	.681	.619	.573	.500	.448	.404
21	.994	.990	.985	.981	.977	.973	.969	.940	.923	.896	.875	.833	.810	.788	.740	.663	.600	.550	.481	.429
22	.996	.992	.988	.983	.979	.975	.971	.960	.933	.913	.883	.852	.823	.798	.773	.723	.644	.579	.529	.483
23	.998	.994	.990	.985	.981	.977	.973	.967	.954	.927	.900	.858	.840	.813	.783	.758	.706	.623	.563	.508
24	1.00	.996	.992	.988	.983	.979	.975	.971	.963	.948	.919	.873	.846	.827	.800	.769	.744	.685	.604	.546
25	1.00	1.00	.994	.990	.985	.981	.977	.973	.969	.958	.940	.894	.860	.831	.815	.788	.754	.725	.663	.588
26	1.00	1.00	1.00	.992	.988	.983	.979	.975	.971	.967	.952	.915	.883	.846	.819	.802	.775	.735	.702	.646
27	1.00	1.00	1.00	1.00	.990	.985	.981	.977	.973	.969	.963	.929	.904	.869	.831	.806	.790	.758	.715	.685
28	1.00	1.00	1.00	1.00	1.00	.988	.983	.979	.975	.971	.965	.942	.921	.890	.852	.819	.794	.773	.742	.698
29	1.00	1.00	1.00	1.00	1.00	1.00	.985	.981	.977	.973	.967	.944	.938	.906	.873	.840	.806	.777	.756	.729
30	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.983	.979	.975	.969	.946	.940	.929	.888	.860	.827	.790	.760	.744
31	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.981	.977	.971	.948	.942	.933	.917	.873	.848	.810	.773	.748
32	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.979	.973	.950	.944	.938	.923	.904	.858	.831	.794	.760
33	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.975	.952	.946	.940	.931	.908	.894	.840	.815	.781
34	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.998	.954	.948	.942	.935	.919	.898	.879	.821	.802
35	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.979	.950	.944	.938	.925	.910	.883	.863	.808
36	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.983	.977	.946	.940	.929	.915	.898	.867	.852
37	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.985	.981	.975	.942	.933	.917	.902	.883	.856
38	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.988	.983	.977	.973	.935	.921	.904	.890	.873
39	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.990	.985	.979	.973	.969	.925	.908	.892	.881
40	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.992	.988	.983	.973	.969	.963	.913	.896	.883

TOTAL OBSERVATIONS 440

TABLE 4. 3.b. P(W ≥ W\*) I LAUNCH OPPORTUNITIES IN J PERIODS (W\* = 25 M/SEC).  
 BASED ON MAXIMUM WIND SPEEDS IN THE 10-15 KM LAYER OVER CAPE KENNEDY, FLORIDA.  
 PERIOD OF RECORD JANUARY 1956 - DECEMBER 1963.

CAPE KENNEDY, FLORIDA APRIL

SPEEDS GREATER THAN OR EQUAL TO 030 MPS

PC ( I CONSECUTIVE SUCCESSES IN J PERIODS )

	I																			
J	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
1	.765																			
2	.800	.723																		
3	.825	.750	.685																	
4	.850	.777	.710	.650																
5	.873	.800	.735	.675	.615															
6	.885	.821	.765	.700	.633	.588														
7	.898	.842	.788	.727	.652	.602	.563													
8	.908	.854	.810	.754	.673	.617	.577	.538												
9	.917	.869	.831	.779	.694	.633	.592	.550	.513											
10	.925	.879	.848	.802	.717	.650	.608	.563	.523	.490										
11	.931	.890	.865	.825	.735	.669	.625	.577	.533	.500	.467									
12	.935	.900	.877	.842	.754	.688	.644	.592	.546	.510	.475	.446								
13	.940	.906	.888	.860	.771	.700	.643	.608	.558	.523	.483	.454	.425							
14	.946	.910	.898	.875	.790	.713	.679	.625	.573	.535	.494	.463	.433	.404						
15	.952	.919	.902	.885	.808	.725	.692	.640	.588	.550	.504	.473	.442	.413	.383					
16	.958	.927	.908	.894	.823	.738	.704	.654	.600	.565	.517	.483	.452	.421	.392	.363				
17	.965	.935	.915	.900	.831	.750	.717	.667	.613	.577	.529	.496	.463	.431	.400	.371	.344			
18	.971	.944	.921	.906	.842	.760	.729	.679	.625	.590	.540	.508	.475	.442	.410	.379	.352	.325		
19	.975	.952	.927	.913	.848	.771	.742	.692	.635	.602	.550	.519	.488	.454	.421	.388	.360	.331	.308	
20	.979	.960	.933	.919	.854	.781	.754	.704	.646	.615	.560	.529	.498	.467	.433	.396	.369	.338	.315	.292
21	.983	.967	.940	.925	.860	.790	.765	.719	.656	.625	.571	.540	.508	.477	.446	.404	.377	.344	.321	.298
22	.988	.973	.946	.931	.867	.798	.775	.731	.669	.635	.581	.550	.519	.488	.456	.413	.385	.350	.327	.304
23	.992	.979	.950	.938	.873	.806	.783	.744	.681	.646	.590	.560	.529	.498	.467	.419	.394	.356	.333	.310
24	.996	.985	.954	.944	.879	.815	.792	.756	.694	.656	.598	.571	.540	.508	.477	.425	.400	.363	.340	.317
25	.998	.992	.958	.948	.885	.823	.800	.767	.706	.667	.606	.579	.550	.519	.488	.451	.406	.369	.346	.323
26	1.00	.996	.963	.952	.892	.831	.808	.777	.719	.677	.615	.588	.560	.529	.498	.458	.413	.375	.352	.329
27	1.00	.998	.967	.956	.896	.840	.817	.788	.729	.688	.623	.596	.569	.540	.508	.444	.419	.381	.358	.335
28	1.00	1.00	.971	.960	.900	.848	.825	.798	.740	.698	.631	.604	.577	.550	.519	.450	.425	.388	.365	.342
29	1.00	1.00	.973	.965	.904	.854	.833	.808	.750	.706	.640	.613	.585	.558	.529	.456	.431	.394	.371	.348
30	1.00	1.00	.975	.969	.908	.860	.840	.819	.760	.715	.648	.621	.594	.567	.540	.463	.438	.400	.377	.354
31	1.00	1.00	.975	.971	.913	.867	.846	.825	.771	.723	.654	.629	.602	.575	.548	.469	.444	.406	.383	.360
32	1.00	1.00	.975	.973	.917	.873	.852	.831	.779	.731	.660	.638	.610	.583	.556	.475	.450	.413	.390	.367
33	1.00	1.00	.975	.973	.921	.879	.858	.838	.785	.738	.667	.644	.619	.592	.565	.479	.456	.419	.396	.373
34	1.00	1.00	.975	.973	.925	.888	.865	.844	.792	.744	.673	.650	.627	.600	.573	.483	.463	.425	.402	.379
35	1.00	1.00	.975	.973	.929	.896	.871	.850	.798	.748	.679	.656	.633	.608	.581	.488	.467	.431	.408	.385
36	1.00	1.00	.975	.973	.933	.904	.877	.856	.804	.752	.685	.663	.640	.617	.590	.492	.471	.438	.415	.392
37	1.00	1.00	.975	.973	.938	.910	.883	.863	.810	.756	.692	.669	.646	.623	.598	.496	.475	.442	.421	.398
38	1.00	1.00	.975	.973	.942	.915	.890	.869	.817	.760	.698	.675	.652	.629	.606	.500	.479	.446	.427	.404
39	1.00	1.00	.975	.973	.946	.919	.894	.875	.823	.765	.704	.681	.658	.635	.613	.504	.483	.450	.431	.410
40	1.00	1.00	.975	.973	.950	.923	.898	.881	.829	.769	.710	.688	.665	.642	.619	.508	.488	.454	.435	.417

TOTAL OBSERVATIONS 480

TABLE 4. 4.a. P(W ≥ W\*) I CONSECUTIVE LAUNCH OPPORTUNITIES IN J PERIODS (W\* = 30 M/SEC).  
 BASED ON MAXIMUM WIND SPEEDS IN THE 10-15 KM LAYER OVER CAPE KENNEDY, FLORIDA.  
 PERIOD OF RECORD JANUARY 1956 - DECEMBER 1963.

CAPE KENNEDY, FLORIDA APRIL  
SPEEDS GREATER THAN OR EQUAL TO 030 MPS

P ( I SUCCESSES IN J PERIODS )

J	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
1	.765																			
2	.800	.723																		
3	.825	.760	.685																	
4	.850	.783	.779	.650																
5	.873	.808	.754	.700	.615															
6	.885	.840	.779	.727	.665	.588														
7	.898	.854	.819	.754	.688	.638	.563													
8	.908	.871	.838	.798	.710	.656	.619	.538												
9	.917	.885	.856	.819	.754	.677	.638	.598	.513											
10	.925	.898	.871	.838	.779	.721	.658	.619	.571	.490										
11	.931	.910	.885	.850	.800	.748	.704	.640	.596	.546	.467									
12	.935	.921	.900	.865	.813	.769	.735	.688	.617	.569	.523	.446								
13	.940	.927	.910	.879	.829	.781	.754	.723	.667	.588	.544	.504	.425							
14	.946	.933	.917	.890	.846	.800	.765	.742	.706	.638	.560	.525	.485	.404						
15	.952	.940	.925	.896	.856	.819	.783	.752	.727	.679	.608	.542	.506	.467	.383					
16	.958	.946	.933	.904	.863	.829	.800	.773	.738	.706	.650	.588	.523	.488	.448	.363				
17	.965	.952	.940	.915	.871	.835	.808	.790	.760	.717	.679	.629	.567	.504	.469	.429	.344			
18	.971	.958	.946	.923	.881	.846	.815	.798	.777	.742	.692	.658	.606	.548	.485	.450	.413	.325		
19	.975	.967	.952	.931	.890	.856	.827	.804	.788	.756	.721	.671	.635	.585	.529	.465	.433	.394	.308	
20	.979	.971	.963	.940	.898	.865	.840	.817	.794	.769	.735	.702	.648	.615	.565	.508	.448	.413	.379	.292
21	.983	.975	.967	.954	.906	.871	.852	.829	.806	.777	.750	.715	.681	.627	.594	.542	.490	.427	.396	.365
22	.988	.979	.971	.960	.923	.877	.860	.844	.819	.790	.760	.731	.692	.663	.606	.569	.523	.467	.410	.379
23	.992	.983	.975	.967	.929	.894	.869	.852	.835	.800	.773	.744	.710	.671	.644	.577	.552	.502	.446	.394
24	.996	.988	.979	.971	.938	.900	.885	.860	.844	.817	.783	.756	.725	.688	.652	.613	.558	.535	.481	.425
25	.998	.994	.983	.975	.942	.910	.892	.877	.852	.825	.802	.767	.738	.704	.667	.617	.596	.542	.519	.458
26	1.00	.996	.992	.979	.946	.917	.902	.883	.869	.833	.810	.788	.748	.717	.683	.627	.600	.579	.525	.498
27	1.00	1.00	.994	.990	.950	.921	.910	.894	.875	.850	.819	.794	.771	.727	.694	.646	.608	.583	.563	.504
28	1.00	1.00	1.00	.992	.963	.925	.915	.904	.885	.858	.833	.800	.779	.752	.702	.656	.629	.590	.567	.542
29	1.00	1.00	1.00	1.00	.969	.935	.919	.908	.898	.871	.844	.810	.785	.765	.725	.667	.638	.610	.573	.546
30	1.00	1.00	1.00	1.00	.983	.942	.927	.913	.902	.885	.858	.821	.794	.771	.742	.690	.646	.619	.592	.552
31	1.00	1.00	1.00	1.00	.990	.956	.933	.919	.906	.890	.875	.835	.806	.777	.750	.708	.665	.627	.598	.571
32	1.00	1.00	1.00	1.00	.996	.963	.948	.925	.910	.894	.879	.854	.821	.792	.756	.719	.681	.644	.604	.579
33	1.00	1.00	1.00	1.00	.998	.973	.954	.940	.915	.898	.883	.858	.842	.806	.773	.727	.682	.658	.619	.585
34	1.00	1.00	1.00	1.00	1.00	.975	.969	.946	.927	.902	.890	.863	.846	.829	.798	.746	.704	.669	.629	.600
35	1.00	1.00	1.00	1.00	1.00	.981	.971	.964	.931	.915	.894	.869	.850	.833	.813	.760	.725	.685	.633	.610
36	1.00	1.00	1.00	1.00	1.00	.983	.977	.967	.952	.919	.906	.873	.856	.838	.819	.785	.742	.706	.646	.615
37	1.00	1.00	1.00	1.00	1.00	.985	.977	.975	.956	.940	.910	.885	.860	.844	.825	.792	.767	.725	.665	.627
38	1.00	1.00	1.00	1.00	1.00	.988	.977	.975	.969	.944	.931	.890	.873	.848	.831	.800	.771	.750	.681	.646
39	1.00	1.00	1.00	1.00	1.00	.990	.977	.975	.971	.958	.935	.910	.877	.860	.835	.806	.779	.754	.704	.665
40	1.00	1.00	1.00	1.00	1.00	.992	.977	.975	.973	.960	.952	.917	.898	.865	.848	.810	.785	.763	.710	.688

TOTAL OBSERVATIONS 480

TABLE 4. 4.b. P(N ≥ M) I LAUNCH OPPORTUNITIES IN J PERIODS (M = 30 M/SEC).  
BASED ON MAXIMUM WIND SPEEDS IN THE 10-15 KM LAYER OVER CAPE KENNEDY, FLORIDA.  
PERIOD OF RECORD JANUARY 1956 - DECEMBER 1963.

CAPE KENNEDY, FLORIDA APRIL

SPEEDS GREATER THAN OR EQUAL TO 035 MPS

PC ( I CONSECUTIVE SUCCESSSES IN J PERIODS )

	I																			
J	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
1	.675																			
2	.729	.617																		
3	.760	.660	.569																	
4	.790	.700	.606	.527																
5	.813	.729	.640	.563	.498															
6	.831	.754	.677	.594	.515	.458														
7	.850	.777	.702	.627	.538	.481	.431													
8	.869	.800	.723	.660	.563	.500	.452	.406												
9	.883	.819	.746	.685	.588	.527	.469	.427	.379											
10	.896	.835	.769	.708	.613	.542	.488	.444	.396	.356										
11	.906	.850	.785	.733	.633	.563	.506	.463	.408	.371	.335									
12	.915	.863	.802	.754	.656	.583	.525	.481	.423	.381	.350	.315								
13	.923	.873	.817	.773	.677	.600	.544	.500	.438	.394	.360	.329	.294							
14	.931	.881	.829	.792	.698	.615	.563	.519	.452	.404	.373	.340	.306	.275						
15	.940	.890	.840	.808	.717	.629	.575	.538	.467	.419	.385	.350	.315	.288	.258					
16	.948	.896	.848	.823	.735	.644	.598	.554	.481	.431	.398	.360	.323	.296	.271	.242				
17	.954	.902	.856	.833	.752	.658	.600	.567	.494	.444	.410	.371	.331	.304	.279	.254	.225			
18	.960	.908	.863	.842	.769	.673	.613	.579	.506	.454	.423	.381	.340	.313	.288	.263	.235	.210		
19	.967	.915	.869	.850	.783	.690	.625	.592	.517	.465	.433	.392	.348	.321	.296	.271	.242	.219	.198	
20	.973	.921	.875	.856	.796	.706	.640	.606	.527	.475	.444	.400	.356	.329	.304	.279	.248	.223	.206	.185
21	.977	.927	.881	.863	.808	.723	.654	.619	.538	.483	.454	.408	.363	.338	.310	.288	.254	.227	.210	.194
22	.981	.933	.888	.869	.819	.738	.669	.633	.550	.492	.465	.417	.369	.344	.317	.294	.260	.231	.215	.198
23	.985	.940	.894	.875	.824	.752	.683	.648	.563	.500	.473	.425	.375	.350	.321	.300	.265	.235	.219	.202
24	.990	.946	.900	.881	.840	.765	.698	.663	.575	.508	.481	.433	.381	.356	.327	.304	.269	.238	.223	.206
25	.992	.952	.906	.888	.848	.777	.711	.677	.588	.517	.490	.440	.388	.363	.329	.308	.273	.240	.225	.210
26	.994	.958	.913	.894	.856	.790	.725	.692	.600	.525	.498	.446	.394	.369	.333	.313	.277	.242	.227	.213
27	.996	.963	.919	.900	.865	.800	.738	.706	.613	.533	.506	.452	.398	.375	.338	.317	.281	.244	.229	.215
28	.998	.967	.925	.906	.873	.810	.750	.719	.625	.542	.515	.458	.402	.381	.342	.321	.285	.246	.231	.217
29	1.00	.971	.931	.913	.874	.821	.760	.731	.638	.550	.523	.465	.406	.385	.346	.325	.290	.248	.233	.219
30	1.00	.975	.938	.919	.885	.827	.771	.744	.648	.558	.531	.471	.410	.390	.350	.329	.294	.250	.235	.221
31	1.00	.977	.944	.925	.892	.833	.779	.754	.658	.567	.540	.477	.415	.394	.352	.333	.298	.252	.238	.223
32	1.00	.977	.950	.933	.898	.840	.785	.763	.669	.573	.548	.483	.419	.398	.354	.338	.302	.254	.240	.225
33	1.00	.977	.954	.942	.906	.846	.792	.771	.675	.579	.556	.490	.423	.402	.356	.340	.306	.256	.242	.227
34	1.00	.977	.958	.948	.915	.854	.798	.777	.681	.585	.563	.498	.427	.406	.358	.342	.310	.258	.244	.229
35	1.00	.977	.963	.952	.923	.863	.804	.783	.688	.590	.569	.502	.431	.410	.360	.344	.313	.260	.246	.231
36	1.00	.977	.967	.956	.929	.871	.810	.790	.694	.594	.575	.506	.435	.415	.363	.346	.315	.263	.248	.233
37	1.00	.977	.969	.960	.933	.879	.817	.798	.700	.598	.579	.510	.440	.419	.365	.348	.317	.265	.250	.235
38	1.00	.977	.971	.965	.938	.888	.823	.802	.706	.607	.583	.515	.442	.423	.367	.350	.319	.267	.252	.238
39	1.00	.977	.973	.967	.942	.894	.829	.808	.713	.608	.588	.517	.444	.427	.369	.352	.321	.269	.254	.240
40	1.00	.977	.975	.969	.946	.900	.835	.815	.719	.610	.592	.519	.446	.429	.371	.354	.323	.271	.256	.242

TOTAL OBSERVATIONS 440

TABLE 4. 5.a.  $P(W \geq W_0)$  I CONSECUTIVE LAUNCH OPPORTUNITIES IN J PERIODS ( $W_0 = 35$  M/SEC).  
 BASED ON MAXIMUM WIND SPEEDS IN THE 10-15 KM LAYER OVER CAPE KENNEDY, FLORIDA.  
 PERIOD OF RECORD JANUARY 1956 - DECEMBER 1963.

CAPE KENNEDY, FLORIDA APRIL  
SPEEDS GREATER THAN OR EQUAL TO 035 MPS

P ( I SUCCESSES IN J PERIODS )

	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
1	.675																			
2	.729	.617																		
3	.760	.679	.569																	
4	.790	.710	.638	.527																
5	.813	.742	.669	.604	.488															
6	.831	.769	.698	.642	.565	.458														
7	.850	.792	.727	.671	.602	.533	.431													
8	.869	.810	.750	.706	.631	.569	.506	.406												
9	.883	.831	.769	.731	.667	.602	.538	.481	.379											
10	.896	.846	.794	.750	.694	.638	.573	.508	.452	.356										
11	.906	.860	.808	.779	.710	.669	.604	.550	.473	.427	.335									
12	.915	.871	.827	.794	.742	.690	.633	.583	.515	.444	.406	.315								
13	.923	.879	.838	.817	.756	.723	.652	.615	.548	.483	.423	.385	.294							
14	.931	.888	.848	.827	.753	.738	.683	.635	.581	.517	.460	.402	.363	.275						
15	.940	.896	.854	.840	.794	.767	.698	.667	.608	.548	.494	.435	.379	.342	.258					
16	.948	.904	.860	.846	.808	.777	.731	.679	.646	.573	.521	.471	.413	.354	.323	.242				
17	.954	.915	.867	.852	.815	.794	.746	.710	.660	.613	.544	.496	.448	.388	.333	.306	.225			
18	.960	.923	.875	.858	.823	.802	.769	.725	.690	.631	.581	.519	.471	.421	.367	.315	.288	.210		
19	.967	.931	.881	.867	.831	.813	.781	.750	.704	.660	.602	.554	.494	.440	.400	.348	.290	.273	.198	
20	.973	.940	.888	.873	.842	.823	.794	.765	.731	.677	.629	.575	.529	.458	.419	.381	.317	.277	.258	.185
21	.977	.950	.894	.879	.850	.833	.808	.777	.748	.708	.646	.600	.550	.492	.435	.400	.350	.298	.263	.246
22	.981	.958	.902	.885	.858	.842	.821	.796	.760	.725	.681	.615	.577	.510	.465	.417	.369	.329	.279	.250
23	.985	.967	.908	.894	.867	.850	.831	.808	.783	.733	.702	.650	.592	.542	.477	.444	.385	.348	.306	.265
24	.990	.973	.917	.900	.877	.858	.842	.819	.796	.754	.713	.671	.629	.556	.508	.450	.417	.363	.325	.285
25	.992	.981	.923	.908	.883	.869	.850	.831	.806	.767	.735	.679	.632	.594	.523	.477	.425	.396	.338	.306
26	.994	.985	.933	.915	.892	.875	.860	.842	.819	.777	.746	.702	.660	.619	.558	.490	.454	.402	.375	.317
27	.996	.990	.940	.925	.898	.883	.867	.852	.831	.790	.754	.713	.683	.627	.581	.523	.469	.429	.383	.356
28	.998	.994	.946	.931	.908	.890	.875	.858	.842	.806	.765	.721	.694	.650	.590	.544	.504	.442	.410	.367
29	1.00	.996	.954	.938	.917	.898	.881	.867	.850	.817	.783	.731	.702	.663	.608	.552	.525	.475	.425	.392
30	1.00	1.00	.958	.948	.925	.906	.888	.873	.858	.829	.790	.754	.710	.673	.621	.565	.535	.494	.458	.408
31	1.00	1.00	.967	.952	.940	.915	.894	.879	.855	.840	.800	.763	.733	.681	.633	.573	.546	.506	.475	.442
32	1.00	1.00	.971	.960	.946	.931	.900	.885	.871	.846	.808	.777	.742	.704	.642	.583	.554	.515	.490	.456
33	1.00	1.00	.973	.967	.954	.940	.917	.892	.877	.852	.815	.788	.756	.713	.665	.590	.565	.523	.496	.473
34	1.00	1.00	.975	.969	.963	.948	.925	.910	.883	.858	.821	.798	.767	.729	.673	.610	.571	.533	.504	.477
35	1.00	1.00	.977	.971	.965	.958	.933	.919	.904	.865	.827	.802	.781	.742	.688	.619	.590	.542	.513	.483
36	1.00	1.00	.979	.973	.967	.960	.946	.927	.913	.888	.833	.806	.788	.760	.700	.629	.600	.558	.523	.488
37	1.00	1.00	.979	.977	.969	.963	.950	.940	.921	.896	.858	.810	.794	.771	.721	.638	.610	.569	.540	.496
38	1.00	1.00	.979	.977	.975	.965	.954	.944	.933	.904	.869	.833	.798	.777	.733	.656	.619	.577	.552	.510
39	1.00	1.00	.979	.977	.975	.973	.958	.948	.938	.917	.879	.842	.821	.781	.742	.671	.635	.583	.560	.523
40	1.00	1.00	.979	.977	.975	.973	.971	.952	.942	.921	.894	.852	.829	.804	.748	.677	.652	.598	.567	.531

TOTAL OBSERVATIONS 480

TABLE 4. 5.b. P(W ≥ W<sub>0</sub>) I LAUNCH OPPORTUNITIES IN J PERIODS (W<sub>0</sub> = 35 K/SEC).  
BASED ON MAXIMUM WIND SPEEDS IN THE 10-15 KM LAYER OVER CAPE KENNEDY, FLORIDA.  
PERIOD OF RECORD JANUARY 1956 - DECEMBER 1963.

CAPE KENNEDY, FLORIDA APRIL  
 SPEEDS GREATER THAN OR EQUAL TO 040 MPS

P ( 1 CONSECUTIVE SUCCESSES IN J PERIODS )

I

J	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
1	.588																			
2	.646	.525																		
3	.685	.575	.469																	
4	.719	.621	.506	.477																
5	.746	.660	.540	.456	.392															
6	.769	.696	.573	.481	.417	.360														
7	.796	.723	.602	.506	.438	.385	.329													
8	.823	.748	.631	.531	.458	.406	.352	.300												
9	.844	.773	.656	.554	.479	.427	.371	.317	.279											
10	.863	.798	.679	.579	.502	.448	.390	.329	.296	.258										
11	.879	.817	.702	.602	.523	.471	.408	.342	.308	.275	.238									
12	.892	.833	.725	.623	.544	.496	.429	.354	.321	.288	.254	.217								
13	.902	.848	.746	.644	.560	.517	.452	.369	.333	.300	.267	.231	.202							
14	.910	.858	.767	.665	.575	.535	.475	.385	.346	.313	.279	.242	.217	.188						
15	.921	.865	.783	.685	.590	.552	.492	.402	.360	.325	.292	.252	.227	.202	.173					
16	.929	.871	.794	.704	.604	.567	.508	.417	.375	.340	.304	.263	.238	.213	.185	.160				
17	.935	.877	.804	.721	.617	.581	.523	.429	.388	.354	.319	.273	.248	.223	.194	.173	.148			
18	.942	.883	.815	.733	.629	.594	.535	.442	.400	.367	.333	.285	.258	.233	.202	.181	.158	.138		
19	.948	.890	.827	.746	.642	.606	.546	.452	.410	.379	.346	.298	.271	.244	.210	.190	.165	.148	.127	
20	.954	.896	.838	.760	.652	.619	.556	.458	.419	.392	.358	.308	.283	.256	.219	.198	.171	.154	.138	.117
21	.960	.902	.848	.775	.665	.631	.567	.465	.425	.400	.371	.319	.294	.269	.227	.206	.177	.160	.144	.127
22	.967	.908	.856	.788	.677	.644	.577	.471	.429	.406	.381	.329	.304	.279	.235	.215	.183	.167	.150	.133
23	.973	.917	.865	.800	.690	.656	.588	.477	.433	.413	.388	.340	.315	.290	.244	.223	.190	.173	.156	.140
24	.979	.923	.873	.810	.700	.669	.598	.483	.438	.417	.394	.348	.325	.300	.252	.231	.196	.179	.163	.146
25	.983	.929	.881	.821	.710	.681	.608	.490	.442	.421	.400	.354	.333	.310	.260	.240	.202	.185	.169	.152
26	.988	.935	.890	.831	.719	.692	.619	.496	.446	.425	.404	.360	.340	.319	.269	.248	.208	.192	.175	.158
27	.992	.940	.898	.842	.727	.702	.629	.502	.450	.429	.408	.367	.346	.325	.275	.256	.215	.198	.181	.165
28	.996	.944	.906	.852	.735	.710	.638	.508	.454	.433	.413	.371	.352	.331	.279	.263	.221	.204	.188	.171
29	1.00	.948	.913	.860	.744	.719	.646	.515	.458	.438	.417	.375	.358	.338	.283	.267	.225	.210	.194	.177
30	1.00	.952	.919	.869	.750	.727	.652	.519	.463	.442	.421	.379	.363	.344	.288	.271	.227	.215	.200	.183
31	1.00	.956	.925	.877	.756	.733	.658	.523	.467	.446	.425	.383	.367	.350	.292	.275	.229	.217	.204	.190
32	1.00	.960	.931	.885	.763	.740	.663	.527	.469	.450	.429	.388	.371	.354	.296	.279	.231	.219	.206	.194
33	1.00	.965	.938	.894	.769	.746	.667	.531	.471	.454	.433	.392	.375	.358	.300	.283	.233	.221	.208	.196
34	1.00	.967	.944	.902	.775	.752	.671	.535	.473	.456	.438	.396	.379	.363	.302	.288	.235	.223	.210	.198
35	1.00	.969	.950	.910	.781	.758	.675	.540	.475	.458	.442	.400	.383	.367	.304	.292	.238	.225	.213	.200
36	1.00	.971	.954	.917	.788	.765	.679	.544	.477	.460	.444	.404	.388	.371	.306	.294	.240	.227	.215	.202
37	1.00	.973	.958	.923	.794	.771	.683	.548	.479	.463	.446	.408	.392	.375	.308	.296	.242	.229	.217	.204
38	1.00	.975	.963	.927	.800	.777	.688	.552	.481	.465	.448	.410	.396	.379	.310	.298	.244	.231	.219	.206
39	1.00	.977	.965	.931	.806	.783	.692	.556	.483	.467	.450	.413	.398	.383	.313	.300	.246	.233	.221	.208
40	1.00	.977	.967	.935	.810	.790	.696	.560	.485	.469	.452	.415	.400	.385	.315	.302	.248	.235	.223	.210

TOTAL OBSERVATIONS 480

TABLE 4. G.2. P(W ≥ W<sub>0</sub>) 1 CONSECUTIVE LAUNCH OPPORTUNITIES IN J PERIODS (W<sub>0</sub> = 40 M/SEC).  
 BASED ON MAXIMUM WIND SPEEDS IN THE 10-15 KM LAYER OVER CAPE KENNEDY, FLORIDA.  
 PERIOD OF RECORD JANUARY 1956 - DECEMBER 1963.

CAPE KENNEDY, FLORIDA APRIL  
SPEEDS GREATER THAN OR EQUAL TO 040 MPS

P ( I SUCCESSES IN J PERIODS )

	I																			
J	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
1	.588																			
2	.646	.525																		
3	.685	.592	.469																	
4	.719	.635	.531	.427																
5	.746	.673	.575	.488	.392															
6	.769	.704	.613	.531	.450	.360														
7	.796	.727	.646	.567	.494	.419	.329													
8	.823	.752	.669	.600	.529	.460	.385	.300												
9	.844	.783	.692	.621	.567	.494	.421	.354	.279											
10	.863	.804	.727	.640	.590	.535	.448	.388	.331	.258										
11	.879	.823	.752	.673	.608	.560	.485	.410	.365	.313	.238									
12	.892	.842	.775	.698	.642	.579	.510	.450	.381	.344	.294	.217								
13	.902	.854	.798	.723	.667	.615	.527	.473	.425	.352	.325	.273	.202							
14	.910	.863	.813	.750	.692	.640	.563	.488	.446	.392	.333	.306	.254	.188						
15	.921	.869	.823	.765	.723	.667	.585	.521	.456	.413	.371	.315	.288	.238	.173					
16	.929	.877	.831	.775	.740	.702	.613	.542	.483	.425	.388	.352	.298	.269	.219	.160				
17	.935	.885	.844	.785	.752	.719	.652	.563	.504	.452	.402	.363	.338	.281	.246	.204	.148			
18	.942	.892	.854	.802	.763	.733	.673	.598	.525	.469	.431	.371	.348	.323	.258	.229	.188	.138		
19	.948	.898	.863	.815	.781	.744	.652	.619	.560	.485	.446	.398	.354	.333	.300	.244	.208	.175	.127	
20	.954	.904	.871	.825	.796	.765	.704	.642	.581	.517	.458	.410	.379	.340	.310	.285	.223	.194	.163	.117
21	.960	.910	.879	.835	.808	.779	.729	.656	.608	.538	.481	.421	.392	.363	.315	.294	.265	.210	.177	.132
22	.967	.917	.885	.850	.821	.792	.744	.685	.625	.565	.498	.440	.402	.373	.335	.296	.273	.252	.196	.163
23	.973	.923	.892	.858	.840	.806	.756	.700	.658	.579	.523	.452	.421	.381	.346	.315	.275	.260	.238	.181
24	.979	.929	.898	.867	.850	.825	.773	.713	.675	.613	.533	.477	.431	.398	.354	.325	.292	.263	.246	.223
25	.983	.938	.904	.875	.858	.838	.794	.729	.688	.627	.567	.488	.456	.404	.371	.333	.302	.277	.248	.231
26	.988	.942	.915	.881	.867	.846	.810	.750	.704	.638	.577	.523	.469	.425	.377	.350	.310	.285	.263	.233
27	.992	.946	.921	.892	.873	.854	.821	.769	.725	.652	.583	.533	.506	.433	.396	.358	.327	.292	.271	.248
28	.996	.950	.927	.900	.881	.860	.829	.783	.744	.671	.594	.540	.517	.469	.402	.379	.338	.304	.279	.254
29	1.00	.954	.933	.908	.890	.869	.835	.792	.763	.692	.606	.548	.523	.477	.435	.388	.360	.310	.290	.263
30	1.00	.963	.940	.917	.898	.877	.844	.796	.773	.717	.625	.556	.529	.481	.442	.421	.371	.331	.294	.273
31	1.00	.967	.950	.925	.906	.883	.852	.802	.777	.733	.650	.571	.535	.485	.444	.427	.406	.340	.313	.277
32	1.00	.969	.958	.938	.915	.890	.858	.808	.783	.740	.673	.592	.546	.490	.446	.429	.413	.375	.319	.296
33	1.00	.971	.963	.950	.927	.896	.865	.815	.788	.748	.683	.617	.563	.496	.448	.431	.415	.381	.354	.302
34	1.00	.973	.967	.956	.942	.906	.871	.821	.792	.754	.696	.631	.581	.510	.450	.433	.417	.383	.360	.338
35	1.00	.975	.969	.963	.950	.921	.881	.827	.796	.760	.706	.646	.594	.525	.460	.435	.419	.385	.363	.342
36	1.00	.977	.971	.965	.958	.929	.898	.835	.802	.767	.717	.658	.604	.535	.471	.446	.421	.388	.365	.342
37	1.00	.979	.973	.967	.960	.940	.908	.852	.810	.775	.727	.671	.610	.546	.479	.454	.431	.390	.367	.342
38	1.00	.979	.977	.969	.963	.944	.919	.863	.827	.785	.740	.683	.617	.554	.485	.463	.438	.402	.369	.342
39	1.00	.979	.977	.975	.965	.948	.923	.873	.838	.804	.750	.700	.625	.563	.492	.467	.446	.408	.381	.342
40	1.00	.979	.977	.975	.973	.952	.927	.877	.848	.817	.769	.713	.640	.573	.498	.471	.450	.419	.385	.350

TOTAL OBSERVATIONS 480

TABLE 4. S.D.  $P(W \geq W_0)$  I LAUNCH OPPORTUNITIES IN J PERIODS ( $W_0 = 40$  M/SEC).  
BASED ON MAXIMUM WIND SPEEDS IN THE 10-15 KM LAYER OVER CAPE KENNEDY, FLORIDA.  
PERIOD OF RECORD JANUARY 1956 - DECEMBER 1963.



CAPF KENNEDY, FLORIDA APRIL

SPEEDS GREATER THAN OR EQUAL TO 045 MPS

PC ( I CONSECUTIVE SUCCESSSES IN J PERIODS )

J	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
1	.471																			
2	.546	.390																		
3	.592	.440	.331																	
4	.629	.488	.371	.285																
5	.663	.523	.408	.315	.250															
6	.688	.552	.446	.342	.275	.219														
7	.710	.583	.469	.369	.298	.238	.196													
8	.735	.610	.492	.394	.321	.254	.213	.175												
9	.758	.635	.51	.408	.342	.271	.227	.192	.156											
10	.777	.656	.538	.423	.365	.285	.242	.206	.173	.138										
11	.796	.675	.556	.440	.377	.302	.254	.221	.188	.154	.119									
12	.815	.692	.573	.454	.392	.319	.267	.233	.202	.169	.133	.102								
13	.831	.708	.588	.467	.406	.329	.279	.246	.215	.183	.146	.115	.090							
14	.846	.721	.602	.479	.419	.340	.294	.258	.227	.196	.158	.125	.098	.081						
15	.858	.731	.617	.490	.431	.348	.302	.273	.240	.208	.169	.135	.104	.090	.073					
16	.871	.742	.629	.500	.444	.356	.308	.288	.254	.221	.179	.144	.110	.096	.081	.065				
17	.883	.752	.638	.508	.454	.365	.315	.294	.269	.235	.190	.152	.115	.102	.088	.073	.056			
18	.894	.765	.646	.517	.463	.373	.321	.300	.281	.250	.202	.160	.119	.106	.094	.079	.063	.050		
19	.904	.777	.656	.525	.469	.379	.327	.306	.288	.263	.215	.171	.123	.110	.098	.085	.069	.056	.044	
20	.915	.788	.667	.533	.475	.385	.331	.313	.294	.275	.227	.181	.127	.115	.102	.090	.075	.063	.048	.040
21	.925	.798	.677	.542	.481	.392	.335	.317	.300	.281	.240	.192	.131	.117	.106	.094	.079	.069	.052	.044
22	.933	.808	.688	.550	.488	.398	.340	.321	.304	.288	.252	.202	.135	.123	.110	.098	.083	.073	.056	.048
23	.942	.817	.698	.558	.494	.404	.344	.325	.308	.292	.258	.213	.140	.127	.115	.102	.088	.077	.060	.052
24	.950	.825	.708	.567	.500	.410	.348	.329	.313	.296	.263	.223	.144	.131	.119	.106	.092	.081	.065	.056
25	.958	.833	.717	.575	.506	.417	.352	.333	.317	.300	.267	.225	.148	.135	.123	.110	.096	.085	.069	.060
26	.963	.842	.723	.583	.513	.423	.356	.338	.321	.304	.271	.227	.148	.140	.127	.115	.100	.090	.073	.065
27	.967	.850	.729	.590	.519	.429	.360	.342	.325	.308	.275	.229	.148	.140	.131	.119	.104	.094	.077	.069
28	.971	.856	.735	.594	.525	.435	.367	.346	.329	.313	.279	.231	.148	.140	.131	.123	.108	.098	.081	.073
29	.975	.863	.742	.598	.531	.442	.373	.350	.333	.317	.283	.233	.148	.140	.131	.123	.113	.102	.085	.077
30	.979	.869	.748	.602	.535	.448	.379	.354	.338	.321	.288	.235	.148	.140	.131	.123	.113	.104	.090	.081
31	.983	.875	.754	.606	.540	.454	.385	.358	.342	.325	.292	.238	.148	.140	.131	.123	.113	.106	.094	.085
32	.988	.881	.760	.610	.544	.458	.392	.363	.346	.329	.296	.240	.148	.140	.131	.123	.113	.106	.094	.090
33	.990	.888	.767	.615	.548	.463	.396	.367	.350	.333	.300	.242	.148	.140	.131	.123	.113	.106	.094	.090
34	.992	.894	.773	.619	.552	.467	.400	.369	.354	.338	.304	.244	.148	.140	.131	.123	.113	.106	.094	.090
35	.994	.898	.779	.623	.556	.471	.404	.371	.356	.342	.308	.246	.148	.140	.131	.123	.113	.106	.094	.090
36	.996	.902	.785	.627	.560	.475	.408	.373	.358	.344	.313	.248	.148	.140	.131	.123	.113	.106	.094	.090
37	.998	.906	.790	.631	.565	.479	.413	.375	.360	.346	.315	.250	.148	.140	.131	.123	.113	.106	.094	.090
38	1.00	.910	.794	.635	.569	.483	.417	.377	.363	.348	.317	.252	.148	.140	.131	.123	.113	.106	.094	.090
39	1.00	.915	.798	.640	.573	.488	.421	.379	.365	.350	.319	.254	.148	.140	.131	.123	.113	.106	.094	.090
40	1.00	.919	.802	.644	.577	.492	.425	.381	.367	.352	.321	.256	.148	.140	.131	.123	.113	.106	.094	.090

TOTAL OBSERVATIONS 480

TABLE 4. 7. a. P(W ≥ W\*) I CONSECUTIVE LAUNCH OPPORTUNITIES IN J PERIODS (W\* = 45 M/SEC).  
 BASED ON MAXIMUM WIND SPEEDS IN THE 10-15 KM LAYER OVER CAPE KENNEDY, FLORIDA.  
 PERIOD OF RECORD JANUARY 1956 - DECEMBER 1963.

CAPF KENNEDY, FLORIDA APRIL  
SPEEDS GREATER THAN OR EQUAL TO 045 MPS

( I SUCCESSSES IN J PERIODS )

	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
1	.471																			
2	.546	.390																		
3	.592	.467	.331																	
4	.629	.517	.404	.285																
5	.663	.550	.450	.360	.250															
6	.688	.592	.477	.400	.329	.219														
7	.710	.623	.517	.423	.360	.302	.196													
8	.735	.648	.546	.456	.379	.331	.281	.175												
9	.758	.673	.573	.479	.408	.354	.302	.265	.156											
10	.777	.698	.598	.504	.427	.383	.325	.279	.250	.138										
11	.796	.717	.625	.525	.450	.400	.356	.300	.263	.234	.119									
12	.815	.731	.650	.548	.467	.421	.375	.329	.281	.244	.221	.102								
13	.831	.748	.665	.575	.483	.438	.394	.354	.304	.260	.229	.208	.090							
14	.846	.763	.683	.585	.508	.454	.408	.373	.333	.277	.242	.215	.194	.081						
15	.858	.777	.696	.602	.517	.479	.421	.390	.352	.308	.252	.225	.202	.181	.073					
16	.871	.790	.710	.615	.529	.490	.442	.402	.369	.329	.279	.231	.213	.192	.169	.065				
17	.883	.804	.725	.625	.542	.502	.452	.421	.383	.346	.300	.252	.219	.202	.181	.156	.056			
18	.894	.821	.740	.638	.552	.513	.467	.429	.400	.365	.315	.269	.235	.208	.192	.171	.142	.050		
19	.904	.833	.758	.652	.560	.523	.477	.444	.404	.383	.335	.279	.252	.221	.198	.181	.158	.131	.044	
20	.915	.846	.773	.669	.571	.531	.490	.450	.417	.388	.360	.296	.260	.235	.208	.188	.167	.150	.119	.040
21	.925	.860	.788	.683	.583	.540	.500	.460	.423	.398	.367	.321	.275	.242	.223	.196	.173	.156	.138	.110
22	.933	.873	.804	.700	.592	.550	.508	.475	.431	.402	.377	.327	.298	.254	.229	.210	.179	.163	.142	.127
23	.942	.888	.815	.719	.604	.556	.519	.485	.446	.408	.383	.338	.302	.275	.242	.217	.194	.169	.148	.129
24	.950	.898	.829	.729	.619	.569	.525	.498	.456	.421	.390	.348	.308	.277	.263	.229	.200	.183	.156	.131
25	.958	.908	.842	.742	.625	.581	.540	.506	.469	.429	.402	.356	.319	.279	.265	.250	.213	.190	.171	.138
26	.963	.921	.854	.754	.633	.585	.552	.523	.479	.440	.413	.369	.325	.288	.267	.252	.233	.200	.177	.152
27	.967	.927	.871	.769	.642	.590	.558	.533	.496	.450	.425	.381	.333	.292	.275	.254	.235	.221	.188	.158
28	.971	.931	.881	.790	.650	.594	.563	.542	.504	.467	.435	.398	.344	.298	.277	.263	.238	.223	.206	.167
29	.975	.935	.892	.808	.660	.598	.567	.546	.515	.473	.452	.415	.358	.302	.281	.265	.246	.225	.208	.183
30	.979	.940	.900	.825	.673	.602	.571	.550	.519	.485	.456	.433	.375	.310	.283	.269	.248	.233	.210	.185
31	.983	.944	.908	.842	.683	.608	.575	.554	.523	.490	.469	.440	.392	.325	.288	.271	.252	.235	.219	.188
32	.988	.948	.917	.854	.696	.615	.579	.558	.527	.494	.473	.454	.396	.342	.298	.275	.254	.240	.221	.196
33	.990	.954	.925	.867	.708	.621	.583	.563	.531	.498	.477	.458	.410	.348	.310	.283	.258	.242	.225	.198
34	.992	.956	.938	.879	.719	.629	.588	.567	.535	.502	.481	.463	.413	.365	.317	.294	.265	.246	.227	.202
35	.994	.958	.942	.900	.727	.640	.592	.571	.540	.506	.485	.467	.415	.367	.333	.302	.273	.250	.231	.204
36	.996	.960	.944	.915	.744	.648	.598	.575	.544	.510	.490	.471	.417	.369	.335	.319	.283	.256	.233	.208
37	.998	.963	.946	.923	.760	.660	.606	.579	.548	.515	.494	.475	.419	.371	.338	.321	.298	.271	.235	.210
38	1.00	.965	.948	.929	.773	.673	.621	.583	.552	.519	.498	.479	.421	.373	.342	.323	.298	.285	.252	.213
39	1.00	.969	.950	.933	.783	.683	.633	.596	.556	.523	.502	.483	.423	.375	.346	.325	.298	.285	.269	.227
40	1.00	.969	.956	.935	.796	.690	.644	.608	.567	.527	.506	.488	.425	.377	.350	.327	.298	.285	.273	.244

TOTAL OBSERVATIONS 480

TABLE 4. 7.b. P(W ≥ W\*) I LAUNCH OPPORTUNITIES IN J PERIODS (W\* = 45 M/SEC).  
BASED ON MAXIMUM WIND SPEEDS IN THE 10-15 KM LAYER OVER CAPE KENNEDY, FLORIDA.  
PERIOD OF RECORD JANUARY 1956 - DECEMBER 1963.

CAPF KENNEDY , FLORIDA APRIL

SPEEDS GREATER THAN OR EQUAL TO 050 MPS

PC ( I CONSECUTIVE SUCCESSES IN J PERIODS )

J	I																			
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
1	.348																			
2	.419	.273																		
3	.473	.315	.225																	
4	.521	.354	.254	.190																
5	.552	.390	.281	.210	.163															
6	.579	.419	.308	.229	.181	.138														
7	.604	.440	.331	.248	.198	.152	.119													
8	.631	.456	.354	.267	.215	.165	.131	.102												
9	.656	.473	.371	.285	.231	.177	.142	.115	.088											
10	.679	.490	.383	.302	.250	.190	.152	.125	.098	.075										
11	.698	.504	.396	.317	.267	.204	.163	.135	.106	.083	.067									
12	.717	.521	.406	.329	.281	.219	.173	.146	.115	.090	.075	.058								
13	.735	.535	.419	.340	.294	.231	.183	.156	.123	.096	.081	.067	.050							
14	.750	.550	.431	.352	.302	.244	.194	.167	.131	.102	.088	.073	.056	.044						
15	.763	.560	.444	.365	.313	.252	.202	.177	.140	.108	.094	.079	.060	.050	.038					
16	.775	.571	.454	.377	.323	.260	.208	.188	.148	.115	.100	.085	.065	.054	.042	.033				
17	.790	.581	.465	.388	.333	.269	.215	.194	.156	.121	.106	.092	.069	.058	.046	.035	.031			
18	.804	.592	.475	.396	.342	.277	.219	.202	.165	.127	.113	.098	.073	.063	.050	.038	.033	.029		
19	.817	.602	.485	.404	.350	.283	.223	.208	.173	.133	.119	.104	.077	.067	.054	.040	.035	.031	.027	
20	.829	.613	.496	.413	.358	.290	.225	.213	.181	.140	.125	.110	.081	.071	.058	.042	.038	.033	.029	.025
21	.840	.621	.506	.421	.367	.296	.227	.215	.188	.146	.131	.117	.085	.075	.063	.044	.040	.035	.031	.027
22	.848	.629	.517	.429	.375	.302	.229	.217	.190	.152	.138	.123	.090	.079	.067	.046	.042	.038	.033	.029
23	.856	.635	.527	.438	.383	.308	.231	.219	.192	.154	.144	.129	.094	.083	.071	.048	.044	.040	.035	.031
24	.865	.640	.538	.446	.392	.315	.233	.221	.194	.154	.148	.135	.098	.088	.075	.050	.046	.042	.038	.033
25	.873	.644	.546	.454	.400	.321	.235	.223	.196	.154	.148	.140	.102	.092	.079	.052	.048	.044	.040	.035
26	.879	.648	.554	.463	.408	.327	.238	.225	.198	.154	.148	.142	.104	.096	.083	.054	.050	.046	.042	.038
27	.885	.652	.560	.471	.417	.333	.240	.227	.200	.154	.148	.142	.104	.098	.088	.056	.052	.048	.044	.040
28	.892	.656	.567	.479	.425	.340	.244	.229	.202	.154	.148	.142	.104	.098	.090	.058	.054	.050	.046	.042
29	.898	.660	.573	.488	.433	.346	.248	.231	.204	.154	.148	.142	.104	.098	.090	.060	.056	.052	.048	.044
30	.904	.665	.579	.496	.442	.352	.252	.233	.206	.154	.148	.142	.104	.098	.090	.060	.058	.054	.050	.046
31	.910	.669	.585	.504	.450	.358	.256	.235	.208	.154	.148	.142	.104	.098	.090	.060	.058	.056	.052	.048
32	.915	.673	.590	.513	.458	.365	.260	.238	.210	.154	.148	.142	.104	.098	.090	.060	.058	.056	.054	.050
33	.917	.677	.594	.517	.467	.371	.265	.240	.213	.154	.148	.142	.104	.098	.090	.060	.058	.056	.054	.052
34	.919	.681	.598	.521	.473	.377	.269	.242	.215	.154	.148	.142	.104	.098	.090	.060	.058	.056	.054	.052
35	.921	.685	.602	.525	.477	.383	.273	.244	.217	.154	.148	.142	.104	.098	.090	.060	.058	.056	.054	.052
36	.923	.690	.606	.529	.481	.390	.277	.246	.219	.154	.148	.142	.104	.098	.090	.060	.058	.056	.054	.052
37	.925	.694	.610	.533	.485	.394	.281	.248	.221	.154	.148	.142	.104	.098	.090	.060	.058	.056	.054	.052
38	.927	.698	.615	.538	.490	.398	.285	.250	.223	.154	.148	.142	.104	.098	.090	.060	.058	.056	.054	.052
39	.927	.702	.619	.542	.494	.402	.290	.252	.225	.154	.148	.142	.104	.098	.090	.060	.058	.056	.054	.052
40	.927	.706	.623	.546	.498	.406	.294	.254	.227	.154	.148	.142	.104	.098	.090	.060	.058	.056	.054	.052

TOTAL OBSERVATIONS 480

TABLE 4. 8. a.  $P(W \geq W_0)$  I CONSECUTIVE LAUNCH OPPORTUNITIES IN J PERIODS ( $W_0 = 50$  M/SEC).  
 BASED ON MAXIMUM WIND SPEEDS IN THE 10-15 KM LAYER OVER CAPE KENNEDY, FLORIDA.  
 PERIOD OF RECORD JANUARY 1956 - DECEMBER 1963.

CAPF KENNEDY , FLORIDA APRIL  
SPEEDS GREATER THAN OR EQUAL TO 050 MPS

P ( I SUCCESSES IN J PERIODS )

	I																			
J	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
1	.348																			
2	.419	.273																		
3	.473	.329	.225																	
4	.521	.373	.271	.190																
5	.552	.417	.317	.225	.163															
6	.579	.444	.360	.265	.198	.138														
7	.604	.467	.390	.310	.231	.171	.119													
8	.631	.488	.410	.340	.275	.202	.150	.102												
9	.656	.506	.431	.360	.310	.238	.177	.133	.088											
10	.679	.523	.448	.381	.333	.271	.208	.158	.117	.075										
11	.698	.544	.465	.396	.360	.288	.242	.188	.148	.102	.067									
12	.717	.558	.483	.410	.377	.315	.254	.221	.167	.123	.094	.058								
13	.735	.573	.496	.429	.392	.338	.273	.229	.177	.150	.113	.085	.050							
14	.750	.590	.506	.442	.410	.354	.294	.242	.181	.155	.102	.075	.044							
15	.763	.602	.521	.452	.423	.377	.304	.260	.215	.188	.171	.135	.109	.069	.038					
16	.775	.613	.533	.463	.435	.396	.321	.271	.227	.196	.177	.141	.125	.081	.060	.033				
17	.790	.623	.544	.473	.444	.413	.342	.283	.231	.210	.183	.167	.150	.117	.071	.054	.031			
18	.804	.633	.554	.481	.452	.423	.365	.298	.240	.215	.200	.173	.154	.142	.106	.063	.050	.029		
19	.817	.644	.565	.490	.458	.431	.381	.317	.250	.221	.204	.188	.158	.148	.133	.096	.056	.046	.027	
20	.829	.652	.581	.496	.467	.438	.396	.327	.267	.229	.208	.192	.169	.152	.142	.123	.088	.050	.042	.025
21	.840	.660	.592	.508	.473	.446	.406	.338	.281	.240	.215	.196	.173	.158	.146	.133	.115	.077	.046	.038
22	.848	.667	.604	.521	.481	.452	.417	.348	.294	.252	.221	.202	.177	.163	.148	.138	.127	.102	.071	.042
23	.856	.673	.608	.535	.496	.458	.425	.360	.304	.263	.229	.208	.183	.167	.150	.140	.131	.115	.096	.065
24	.865	.679	.613	.540	.513	.473	.433	.371	.317	.271	.240	.215	.188	.173	.152	.142	.133	.119	.108	.090
25	.873	.685	.617	.544	.517	.492	.450	.379	.331	.279	.246	.223	.194	.177	.156	.144	.135	.121	.113	.102
26	.879	.692	.623	.548	.521	.500	.467	.398	.342	.292	.252	.231	.198	.183	.158	.146	.138	.123	.115	.106
27	.885	.698	.627	.554	.525	.506	.477	.415	.363	.302	.260	.238	.204	.188	.163	.148	.140	.125	.117	.108
28	.892	.704	.631	.560	.529	.510	.485	.429	.379	.319	.269	.246	.210	.192	.167	.150	.142	.127	.119	.110
29	.898	.710	.635	.567	.533	.515	.490	.442	.398	.331	.281	.254	.219	.196	.169	.154	.144	.129	.121	.113
30	.904	.717	.640	.571	.540	.519	.494	.448	.413	.350	.290	.267	.227	.200	.171	.154	.146	.131	.123	.115
31	.910	.723	.644	.575	.544	.525	.498	.454	.419	.363	.308	.273	.240	.206	.173	.154	.146	.133	.125	.117
32	.915	.729	.648	.579	.548	.529	.504	.460	.425	.367	.321	.290	.250	.215	.175	.154	.146	.133	.127	.119
33	.917	.738	.652	.583	.552	.533	.508	.469	.431	.371	.323	.304	.265	.225	.179	.154	.146	.133	.127	.121
34	.919	.744	.658	.588	.556	.538	.513	.475	.440	.375	.325	.308	.279	.240	.185	.154	.146	.133	.127	.121
35	.921	.750	.663	.594	.560	.542	.517	.481	.446	.381	.327	.313	.285	.256	.194	.156	.146	.133	.127	.121
36	.923	.754	.669	.598	.567	.546	.521	.485	.454	.385	.331	.315	.294	.265	.204	.160	.146	.133	.127	.121
37	.925	.758	.673	.604	.571	.552	.525	.490	.458	.394	.333	.319	.298	.275	.210	.169	.146	.133	.127	.121
38	.927	.763	.677	.608	.577	.556	.531	.494	.463	.400	.338	.321	.302	.281	.223	.171	.152	.133	.127	.121
39	.927	.769	.681	.613	.581	.563	.535	.500	.467	.404	.344	.323	.306	.283	.233	.179	.152	.140	.127	.121
40	.927	.773	.688	.617	.585	.567	.542	.504	.473	.408	.348	.327	.308	.288	.242	.183	.158	.142	.131	.121

TOTAL OBSERVATIONS 480

TABLE 4. 8.b. P(W ≥ W\*) I LAUNCH OPPORTUNITIES IN J PERIODS (W\* = 50 M/SEC).  
BASED ON MAXIMUM WIND SPEEDS IN THE 10-15 KM LAYER OVER CAPE KENNEDY, FLORIDA.  
PERIOD OF RECORD JANUARY 1956 - DECEMBER 1963.

CAPE KENNEDY, FLORIDA APRIL  
SPEEDS GREATER THAN OR EQUAL TO 55 MPS

PC ( I CONSECUTIVE SUCCESSES IN J PERIODS )

	I																			
J	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
1	.244																			
2	.302	.181																		
3	.348	.217	.142																	
4	.388	.250	.163	.117																
5	.421	.277	.181	.133	.096															
6	.448	.300	.198	.148	.108	.079														
7	.471	.319	.215	.163	.119	.088	.069													
8	.496	.338	.231	.177	.129	.094	.077	.058												
9	.521	.354	.246	.192	.140	.100	.083	.067	.048											
10	.550	.373	.260	.206	.150	.106	.090	.073	.056	.038										
11	.575	.390	.273	.221	.160	.113	.096	.079	.063	.044	.031									
12	.600	.404	.283	.235	.171	.119	.102	.085	.069	.048	.038	.025								
13	.625	.419	.290	.246	.181	.125	.108	.092	.075	.052	.042	.029	.021							
14	.644	.431	.296	.252	.192	.131	.115	.098	.081	.056	.046	.033	.023	.017						
15	.658	.446	.302	.256	.198	.138	.121	.104	.088	.060	.050	.038	.029	.019	.015					
16	.673	.456	.308	.260	.202	.144	.127	.110	.094	.065	.054	.042	.033	.021	.017	.013				
17	.690	.467	.313	.265	.204	.150	.133	.117	.100	.069	.058	.046	.038	.023	.019	.015	.010			
18	.706	.477	.317	.267	.206	.154	.140	.123	.106	.073	.063	.050	.042	.025	.021	.017	.013	.008		
19	.723	.488	.321	.269	.206	.156	.146	.129	.113	.077	.067	.054	.046	.027	.023	.019	.015	.010	.006	
20	.735	.498	.325	.271	.206	.156	.150	.135	.119	.081	.071	.058	.050	.029	.025	.021	.017	.013	.008	.004
21	.748	.508	.329	.273	.206	.156	.150	.142	.125	.085	.075	.063	.054	.031	.027	.023	.019	.015	.010	.006
22	.758	.519	.333	.275	.206	.156	.150	.144	.131	.090	.079	.067	.058	.033	.029	.025	.021	.017	.013	.008
23	.767	.529	.338	.277	.206	.156	.150	.144	.135	.094	.083	.071	.063	.035	.031	.027	.023	.019	.015	.010
24	.775	.540	.342	.279	.206	.156	.150	.144	.138	.096	.088	.075	.067	.038	.033	.029	.025	.021	.017	.013
25	.783	.548	.346	.281	.206	.156	.150	.144	.138	.098	.090	.079	.071	.040	.035	.031	.027	.023	.019	.015
26	.792	.554	.350	.283	.206	.156	.150	.144	.138	.100	.092	.081	.075	.042	.038	.033	.029	.025	.021	.017
27	.800	.560	.354	.285	.206	.156	.150	.144	.138	.100	.094	.083	.077	.044	.040	.035	.031	.027	.023	.019
28	.808	.567	.358	.290	.206	.156	.150	.144	.138	.100	.094	.085	.079	.046	.042	.038	.033	.029	.025	.021
29	.817	.573	.363	.294	.206	.156	.150	.144	.138	.100	.094	.085	.081	.048	.044	.040	.035	.031	.027	.023
30	.825	.579	.367	.298	.206	.156	.150	.144	.138	.100	.094	.085	.081	.050	.046	.042	.038	.033	.029	.025
31	.833	.585	.371	.302	.206	.156	.150	.144	.138	.100	.094	.085	.081	.050	.048	.044	.040	.035	.031	.027
32	.840	.592	.373	.306	.206	.156	.150	.144	.138	.100	.094	.085	.081	.050	.048	.046	.042	.038	.033	.029
33	.846	.598	.375	.310	.206	.156	.150	.144	.138	.100	.094	.085	.081	.050	.048	.046	.044	.040	.035	.031
34	.850	.602	.377	.313	.206	.156	.150	.144	.138	.100	.094	.085	.081	.050	.048	.046	.044	.042	.038	.033
35	.854	.606	.379	.315	.206	.156	.150	.144	.138	.100	.094	.085	.081	.050	.048	.046	.044	.042	.040	.035
36	.858	.610	.381	.317	.206	.156	.150	.144	.138	.100	.094	.085	.081	.050	.048	.046	.044	.042	.040	.038
37	.863	.615	.383	.319	.206	.156	.150	.144	.138	.100	.094	.085	.081	.050	.048	.046	.044	.042	.040	.038
38	.867	.619	.385	.321	.206	.156	.150	.144	.138	.100	.094	.085	.081	.050	.048	.046	.044	.042	.040	.038
39	.871	.623	.388	.323	.206	.156	.150	.144	.138	.100	.094	.085	.081	.050	.048	.046	.044	.042	.040	.038
40	.873	.627	.390	.325	.206	.156	.150	.144	.138	.100	.094	.085	.081	.050	.048	.046	.044	.042	.040	.038

TOTAL OBSERVATIONS 480

TABLE 4. 9.a. P(W ≥ W\*) I CONSECUTIVE LAUNCH OPPORTUNITIES IN J PERIODS (W\* = 55 M/SEC).  
BASED ON MAXIMUM WIND SPEEDS IN THE 10-15 KM LAYER OVER CAPE KENNEDY, FLORIDA.  
PERIOD OF RECORD JANUARY 1956 - DECEMBER 1963.

CAPE KENNEDY, FLORIDA APRIL  
SPEEDS GREATER THAN OR EQUAL TO 055 MPS

P ( I SUCCESSES IN J PERIODS )

	I																			
J	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
1	.244																			
2	.302	.181																		
3	.348	.227	.142																	
4	.388	.260	.177	.117																
5	.421	.290	.206	.146	.096															
6	.448	.315	.235	.171	.119	.079														
7	.471	.338	.256	.200	.140	.098	.069													
8	.496	.354	.277	.219	.169	.117	.083	.058												
9	.523	.369	.292	.238	.188	.148	.098	.071	.048											
10	.550	.385	.302	.250	.206	.169	.125	.083	.060	.038										
11	.575	.402	.315	.256	.223	.188	.142	.110	.073	.048	.031									
12	.600	.417	.329	.263	.231	.204	.156	.129	.100	.058	.042	.025								
13	.625	.431	.338	.273	.238	.213	.171	.144	.121	.083	.052	.033	.021							
14	.644	.450	.348	.277	.248	.219	.175	.163	.133	.106	.075	.046	.027	.017						
15	.658	.465	.365	.283	.252	.229	.179	.167	.152	.119	.098	.067	.040	.019	.015					
16	.673	.475	.377	.296	.256	.238	.185	.169	.156	.142	.108	.090	.060	.027	.017	.013				
17	.690	.485	.385	.310	.263	.244	.192	.171	.158	.148	.133	.098	.083	.048	.023	.015	.010			
18	.706	.496	.394	.319	.273	.248	.200	.173	.160	.152	.140	.123	.090	.071	.044	.019	.013	.008		
19	.723	.506	.402	.327	.275	.256	.204	.179	.163	.154	.146	.129	.115	.077	.065	.038	.017	.010	.006	
20	.735	.521	.410	.335	.277	.260	.208	.183	.167	.156	.148	.138	.121	.100	.071	.056	.033	.015	.008	.004
21	.748	.531	.42	.346	.279	.263	.213	.188	.171	.158	.150	.142	.129	.104	.094	.063	.050	.029	.013	.006
22	.758	.544	.431	.354	.283	.265	.215	.190	.175	.160	.152	.144	.135	.110	.098	.085	.056	.044	.025	.010
23	.767	.556	.444	.363	.290	.267	.217	.192	.177	.163	.154	.146	.138	.119	.102	.090	.079	.050	.038	.021
24	.775	.563	.460	.373	.296	.269	.219	.194	.179	.163	.156	.148	.140	.121	.113	.092	.083	.073	.044	.031
25	.783	.569	.469	.390	.304	.273	.221	.196	.181	.163	.156	.150	.142	.123	.115	.102	.085	.077	.067	.038
26	.792	.575	.477	.398	.319	.279	.225	.198	.183	.163	.156	.150	.144	.125	.117	.104	.096	.079	.071	.060
27	.800	.581	.485	.404	.329	.290	.231	.202	.185	.163	.156	.150	.144	.127	.119	.106	.098	.090	.073	.065
28	.808	.588	.494	.408	.338	.300	.242	.206	.190	.163	.156	.150	.144	.129	.121	.108	.100	.092	.083	.067
29	.817	.594	.502	.413	.342	.313	.250	.213	.194	.163	.156	.150	.144	.131	.123	.110	.102	.094	.085	.077
30	.825	.600	.510	.417	.346	.317	.265	.219	.198	.163	.156	.150	.144	.131	.125	.113	.104	.096	.088	.079
31	.833	.606	.519	.421	.350	.321	.269	.235	.202	.163	.156	.150	.144	.131	.125	.115	.106	.098	.090	.081
32	.840	.613	.527	.425	.352	.327	.273	.242	.217	.163	.156	.150	.144	.131	.125	.117	.108	.100	.092	.083
33	.846	.617	.535	.429	.354	.329	.279	.248	.223	.171	.156	.150	.144	.131	.125	.117	.110	.102	.094	.085
34	.850	.623	.542	.433	.356	.331	.281	.258	.227	.175	.160	.150	.144	.131	.125	.117	.110	.104	.096	.088
35	.854	.627	.550	.438	.358	.333	.283	.265	.235	.179	.160	.152	.144	.131	.125	.117	.110	.104	.098	.090
36	.858	.631	.556	.444	.360	.335	.285	.271	.240	.188	.160	.152	.144	.131	.125	.117	.110	.104	.098	.092
37	.863	.635	.563	.450	.363	.338	.288	.275	.246	.192	.165	.152	.144	.131	.125	.117	.110	.104	.098	.092
38	.867	.640	.569	.456	.365	.340	.290	.277	.252	.195	.165	.156	.144	.131	.125	.117	.110	.104	.098	.092
39	.871	.644	.575	.463	.367	.342	.292	.279	.256	.204	.167	.156	.148	.131	.125	.117	.110	.104	.098	.092
40	.873	.650	.581	.467	.371	.346	.294	.281	.260	.210	.167	.158	.148	.135	.125	.117	.110	.104	.098	.092

TOTAL OBSERVATIONS 480

TABLE 4. 9.b. P(W ≥ W\*) I LAUNCH OPPORTUNITIES IN J PERIODS (W\* = 55 M/SEC).  
BASED ON MAXIMUM WIND SPEEDS IN THE 10-15 KM LAYER OVER CAPE KENNEDY, FLORIDA.  
PERIOD OF RECORD JANUARY 1956 - DECEMBER 1963.

CAPF KENNEDY, FLORIDA APRIL  
SPEEDS GREATER THAN OR EQUAL TO 060 MPS

PC ( I CONSECUTIVE SUCCESSES IN J PERIODS )

	I																			
J	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
1	.179																			
2	.227	.127																		
3	.263	.150	.100																	
4	.290	.173	.117	.079																
5	.315	.190	.133	.090	.065															
6	.338	.206	.146	.100	.071	.056														
7	.352	.223	.158	.108	.077	.063	.048													
8	.369	.240	.171	.117	.081	.069	.054	.040												
9	.388	.254	.183	.125	.085	.073	.060	.046	.031											
10	.406	.265	.196	.133	.090	.077	.065	.052	.035	.027										
11	.423	.275	.206	.142	.094	.081	.069	.056	.040	.031	.023									
12	.440	.281	.215	.150	.098	.085	.073	.060	.044	.035	.027	.019								
13	.454	.288	.221	.158	.102	.090	.077	.065	.048	.040	.031	.023	.015							
14	.467	.294	.225	.165	.106	.094	.081	.069	.052	.044	.035	.027	.017	.013						
15	.475	.298	.229	.171	.110	.098	.085	.073	.056	.048	.040	.031	.019	.015	.010					
16	.483	.300	.233	.175	.115	.102	.090	.077	.060	.052	.044	.035	.021	.017	.013	.008				
17	.492	.302	.235	.179	.119	.106	.094	.081	.065	.054	.048	.040	.023	.019	.015	.010	.006			
18	.500	.304	.238	.181	.121	.110	.098	.085	.069	.060	.052	.044	.025	.021	.017	.013	.008	.004		
19	.508	.306	.240	.183	.121	.115	.102	.090	.073	.065	.056	.048	.027	.023	.019	.015	.010	.006	.002	
20	.517	.308	.240	.185	.121	.115	.106	.094	.077	.069	.060	.052	.029	.025	.021	.017	.013	.008	.004	.000
21	.525	.310	.240	.188	.121	.115	.108	.098	.081	.073	.065	.056	.031	.027	.023	.019	.015	.010	.006	.000
22	.533	.313	.240	.190	.121	.115	.108	.100	.085	.077	.069	.060	.033	.029	.025	.021	.017	.013	.008	.000
23	.542	.315	.240	.192	.121	.115	.108	.102	.088	.081	.073	.065	.035	.031	.027	.023	.019	.015	.010	.000
24	.550	.317	.240	.194	.121	.115	.108	.102	.090	.083	.077	.069	.038	.033	.029	.025	.021	.017	.013	.000
25	.556	.319	.240	.196	.121	.115	.108	.102	.092	.085	.079	.073	.040	.035	.031	.027	.023	.019	.015	.00
26	.563	.321	.240	.198	.121	.115	.108	.102	.092	.088	.081	.075	.042	.038	.033	.029	.025	.021	.017	.000
27	.569	.325	.240	.200	.121	.115	.108	.102	.092	.088	.083	.077	.044	.040	.035	.031	.027	.023	.019	.000
28	.575	.329	.240	.202	.121	.115	.108	.102	.092	.088	.083	.079	.046	.042	.038	.033	.029	.025	.021	.000
29	.581	.333	.240	.204	.121	.115	.108	.102	.092	.088	.083	.079	.048	.044	.040	.035	.031	.027	.023	.000
30	.588	.338	.240	.204	.121	.115	.108	.102	.092	.088	.083	.079	.048	.046	.042	.038	.033	.029	.025	.000
31	.594	.342	.240	.204	.121	.115	.108	.102	.092	.088	.083	.079	.048	.046	.044	.040	.035	.031	.027	.000
32	.600	.346	.240	.204	.121	.115	.108	.102	.092	.088	.083	.079	.048	.046	.044	.042	.038	.033	.029	.000
33	.604	.350	.240	.204	.121	.115	.108	.102	.092	.088	.083	.079	.048	.046	.044	.042	.040	.035	.031	.000
34	.608	.354	.240	.204	.121	.115	.108	.102	.092	.088	.083	.079	.048	.046	.044	.042	.040	.038	.033	.000
35	.613	.358	.240	.204	.121	.115	.108	.102	.092	.088	.083	.079	.048	.046	.044	.042	.040	.038	.035	.000
36	.617	.363	.240	.204	.121	.115	.108	.102	.092	.088	.083	.079	.048	.046	.044	.042	.040	.038	.035	.000
37	.621	.367	.240	.204	.121	.115	.108	.102	.092	.088	.083	.079	.048	.046	.044	.042	.040	.038	.035	.000
38	.625	.371	.240	.204	.121	.115	.108	.102	.092	.088	.083	.079	.048	.046	.044	.042	.040	.038	.035	.000
39	.629	.375	.240	.204	.121	.115	.108	.102	.092	.088	.083	.079	.048	.046	.044	.042	.040	.038	.035	.000
40	.633	.379	.240	.204	.121	.115	.108	.102	.092	.088	.083	.079	.048	.046	.044	.042	.040	.038	.035	.000

TOTAL OBSERVATIONS 480

TABLE 4.10.a. P(N ≥ W) I CONSECUTIVE LAUNCH OPPORTUNITIES IN J PERIODS (W = 60 M/SEC).  
BASED ON MAXIMUM WIND SPEEDS IN THE 10-15 KM LAYER OVER CAPE KENNEDY, FLORIDA.  
PERIOD OF RECORD JANUARY 1956 - DECEMBER 1963.

CAPE KENNEDY, FLORIDA APRIL  
SPEEDS GREATER THAN OR EQUAL TO 060 MPS

P ( I SUCCESSES IN J PERIODS )

	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
1	.179																			
2	.227	.127																		
3	.263	.163	.100																	
4	.300	.192	.127	.079																
5	.335	.213	.152	.098	.065															
6	.378	.233	.167	.119	.077	.056														
7	.352	.260	.181	.131	.094	.067	.048													
8	.369	.277	.206	.142	.104	.079	.058	.040												
9	.388	.290	.219	.169	.113	.088	.069	.050	.031											
10	.406	.300	.231	.179	.140	.094	.075	.060	.040	.027										
11	.423	.310	.235	.196	.150	.119	.079	.067	.050	.033	.023									
12	.440	.321	.240	.200	.169	.131	.100	.071	.058	.042	.029	.019								
13	.454	.333	.242	.202	.177	.152	.110	.090	.063	.045	.025	.015								
14	.467	.346	.246	.204	.179	.163	.133	.098	.081	.05	.031	.019	.013							
15	.475	.360	.252	.206	.181	.167	.143	.121	.088	.073	.046	.038	.023	.017	.010					
16	.483	.371	.260	.208	.183	.169	.154	.131	.113	.077	.063	.042	.027	.021	.015	.008				
17	.492	.379	.267	.213	.185	.171	.158	.142	.121	.102	.067	.058	.031	.023	.019	.013	.006			
18	.500	.388	.271	.217	.188	.173	.163	.146	.131	.110	.090	.063	.048	.025	.021	.017	.010	.004		
19	.508	.394	.277	.219	.190	.175	.167	.150	.135	.121	.098	.083	.052	.040	.023	.019	.015	.008	.002	
20	.517	.400	.281	.221	.192	.175	.169	.156	.140	.125	.108	.090	.073	.044	.035	.021	.017	.013	.006	.000
21	.525	.406	.285	.223	.194	.175	.169	.160	.146	.129	.110	.100	.077	.065	.040	.031	.019	.015	.010	.002
22	.533	.413	.290	.225	.194	.175	.169	.160	.152	.135	.113	.104	.088	.067	.060	.035	.027	.017	.013	.006
23	.542	.419	.294	.227	.194	.175	.169	.160	.154	.142	.117	.106	.092	.075	.063	.056	.031	.023	.019	.010
24	.550	.425	.298	.229	.194	.175	.169	.160	.154	.146	.123	.108	.094	.079	.069	.058	.052	.025	.021	.013
25	.556	.437	.302	.231	.194	.175	.169	.160	.154	.146	.129	.113	.096	.083	.073	.063	.054	.044	.023	.019
26	.563	.442	.308	.233	.194	.175	.169	.160	.154	.146	.129	.121	.098	.085	.077	.067	.056	.044	.042	.021
27	.569	.450	.315	.238	.194	.175	.169	.160	.154	.146	.129	.121	.108	.088	.079	.071	.058	.044	.042	.040
28	.575	.458	.321	.240	.196	.175	.169	.160	.154	.146	.129	.121	.110	.098	.081	.073	.060	.044	.042	.040
29	.581	.467	.327	.242	.196	.175	.169	.160	.154	.146	.129	.121	.113	.100	.092	.075	.063	.044	.042	.040
30	.588	.475	.333	.244	.196	.175	.169	.160	.154	.146	.129	.121	.113	.102	.094	.085	.065	.044	.042	.040
31	.594	.479	.344	.246	.196	.175	.169	.160	.154	.146	.129	.121	.113	.104	.094	.088	.075	.044	.042	.040
32	.600	.483	.350	.257	.196	.175	.169	.160	.154	.146	.129	.121	.113	.106	.098	.090	.079	.050	.042	.040
33	.604	.488	.356	.256	.198	.175	.169	.160	.154	.146	.129	.121	.113	.106	.100	.092	.083	.052	.044	.040
34	.608	.492	.363	.260	.198	.177	.169	.160	.154	.146	.129	.121	.113	.106	.100	.094	.085	.054	.048	.042
35	.613	.496	.369	.265	.198	.177	.169	.160	.154	.146	.129	.121	.113	.106	.100	.094	.088	.054	.050	.044
36	.617	.500	.375	.269	.198	.177	.167	.160	.154	.146	.129	.121	.113	.106	.100	.094	.088	.054	.050	.046
37	.621	.504	.381	.273	.198	.177	.169	.160	.154	.146	.129	.121	.113	.106	.100	.094	.088	.054	.050	.046
38	.625	.508	.388	.277	.198	.177	.169	.160	.154	.146	.129	.121	.113	.106	.100	.094	.088	.054	.050	.046
39	.629	.513	.394	.281	.198	.177	.169	.160	.154	.146	.129	.121	.113	.106	.100	.094	.088	.054	.050	.046
40	.633	.517	.400	.285	.198	.177	.169	.160	.154	.146	.129	.121	.113	.106	.100	.094	.088	.054	.050	.046

TOTAL OBSERVATIONS 480

TABLE 4.10.b. P(W ≥ W<sub>0</sub>) I LAUNCH OPPORTUNITIES IN J PERIODS (W<sub>0</sub> = 60 M/SEC).  
BASED ON MAXIMUM WIND SPEEDS IN THE 10-15 KM LAYER OVER CAPE KENNEDY, FLORIDA.  
PERIOD OF RECORD JANUARY 1936 - DECEMBER 1963.



CAPE KENNEDY, FLORIDA APRIL  
SPEEDS GREATER THAN OR EQUAL TO 065 MPS

PC ( I CONSECUTIVE SUCCESSES IN J PERIODS )

	I																			
J	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
1	.102																			
2	.144	.058																		
3	.175	.083	.031																	
4	.196	.106	.044	.017																
5	.213	.125	.054	.023	.010															
6	.227	.140	.065	.029	.017	.004														
7	.242	.154	.073	.035	.023	.008	.000													
8	.254	.169	.081	.042	.029	.013	.000	.000												
9	.265	.181	.090	.046	.035	.017	.000	.000	.000											
10	.275	.194	.096	.050	.042	.021	.000	.000	.000	.000										
11	.283	.204	.102	.054	.046	.025	.000	.000	.000	.000	.000									
12	.290	.213	.108	.058	.050	.029	.000	.000	.000	.000	.000	.000								
13	.296	.219	.115	.063	.054	.033	.000	.000	.000	.000	.000	.000	.000							
14	.302	.223	.121	.067	.059	.038	.000	.000	.000	.000	.000	.000	.000	.000						
15	.308	.227	.127	.071	.063	.042	.000	.000	.000	.000	.000	.000	.000	.000	.000					
16	.313	.231	.133	.075	.067	.046	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000				
17	.317	.233	.140	.079	.071	.050	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000			
18	.321	.235	.144	.083	.075	.054	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000		
19	.325	.235	.148	.085	.079	.058	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	
20	.329	.235	.152	.088	.081	.063	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
21	.333	.235	.154	.090	.083	.065	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
22	.338	.235	.156	.092	.085	.067	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
23	.342	.235	.156	.094	.088	.069	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
24	.346	.235	.156	.096	.090	.071	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
25	.348	.235	.156	.096	.092	.073	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
26	.350	.235	.156	.096	.092	.075	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
27	.354	.235	.156	.096	.092	.075	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
28	.358	.235	.156	.096	.092	.075	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
29	.363	.235	.156	.096	.092	.075	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
30	.367	.235	.156	.096	.092	.075	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
31	.371	.235	.156	.096	.092	.075	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
32	.375	.235	.156	.096	.092	.075	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
33	.379	.235	.156	.096	.092	.075	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
34	.383	.235	.156	.096	.092	.075	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
35	.388	.235	.156	.096	.092	.075	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
36	.392	.235	.156	.096	.092	.075	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
37	.396	.235	.156	.096	.092	.075	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
38	.400	.235	.156	.096	.092	.075	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
39	.404	.235	.156	.096	.092	.075	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
40	.408	.235	.156	.096	.092	.075	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000

TOTAL OBSERVATIONS 480

TABLE 4.11. . . . . I CONSECUTIVE LAUNCH OPPORTUNITIES IN J PERIODS (W<sub>0</sub> = 65 M/SEC).  
BASED ON WIND SPEEDS IN THE 10-15 KM LAYER OVER CAPE KENNEDY, FLORIDA.  
PERIOD OF RECORD JANUARY 1956 - DECEMBER 1963.

CAPE KENNEDY, FLORIDA APRIL  
SPEEDS GREATER THAN OR EQUAL TO 065 MPS

P ( I SUCCESSES IN J PERIODS )

I

J	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
1	.102																			
2	.144	.058																		
3	.175	.092	.031																	
4	.196	.121	.056	.017																
5	.213	.140	.079	.035	.010															
6	.227	.158	.092	.054	.029	.004														
7	.242	.173	.106	.065	.042	.023	.000													
8	.254	.188	.117	.077	.048	.033	.015	.000												
9	.265	.202	.127	.088	.056	.038	.025	.010	.000											
10	.275	.210	.144	.094	.065	.044	.031	.019	.006	.000										
11	.283	.217	.156	.106	.071	.050	.038	.027	.010	.004	.000									
12	.290	.225	.160	.125	.079	.054	.044	.033	.019	.006	.002	.000								
13	.296	.229	.169	.133	.098	.058	.048	.040	.025	.013	.004	.000	.000							
14	.302	.233	.173	.146	.110	.069	.052	.044	.033	.019	.010	.000	.000	.000						
15	.308	.238	.179	.152	.127	.079	.056	.048	.038	.021	.013	.004	.000	.000	.000					
16	.313	.242	.183	.160	.131	.098	.065	.052	.042	.025	.017	.006	.002	.000	.000	.000				
17	.317	.244	.185	.167	.140	.106	.079	.060	.046	.029	.019	.010	.004	.000	.000	.000	.000			
18	.321	.246	.185	.169	.152	.113	.088	.071	.054	.033	.021	.013	.008	.000	.000	.000	.000	.000		
19	.325	.248	.185	.169	.158	.123	.096	.077	.063	.042	.023	.015	.010	.002	.000	.000	.000	.000	.000	
20	.329	.250	.185	.169	.160	.131	.104	.085	.069	.050	.029	.017	.013	.004	.000	.000	.000	.000	.000	.000
21	.333	.252	.185	.169	.160	.138	.110	.090	.079	.058	.035	.021	.015	.006	.000	.000	.000	.000	.000	.000
22	.338	.254	.185	.169	.160	.142	.119	.094	.081	.069	.046	.025	.017	.008	.000	.000	.000	.000	.000	.000
23	.342	.256	.185	.169	.160	.146	.123	.100	.083	.071	.056	.035	.019	.010	.000	.000	.000	.000	.000	.000
24	.346	.258	.185	.169	.160	.148	.127	.102	.088	.073	.058	.048	.025	.013	.000	.000	.000	.000	.000	.000
25	.348	.263	.185	.169	.160	.150	.131	.104	.092	.075	.060	.054	.031	.019	.000	.000	.000	.000	.000	.000
26	.350	.265	.188	.169	.160	.152	.133	.106	.094	.077	.063	.056	.038	.023	.004	.000	.000	.000	.000	.000
27	.354	.267	.188	.171	.160	.152	.138	.106	.096	.079	.065	.058	.038	.031	.006	.002	.000	.000	.000	.000
28	.358	.269	.188	.173	.160	.152	.138	.110	.096	.081	.067	.060	.038	.033	.015	.004	.000	.000	.000	.000
29	.363	.271	.188	.173	.160	.152	.138	.110	.100	.083	.069	.063	.038	.035	.015	.013	.000	.000	.000	.000
30	.367	.273	.188	.173	.160	.152	.138	.110	.102	.085	.071	.065	.038	.035	.017	.013	.006	.000	.000	.000
31	.371	.275	.188	.173	.160	.152	.138	.110	.104	.088	.073	.067	.038	.035	.019	.013	.006	.004	.000	.000
32	.375	.277	.188	.173	.160	.152	.138	.110	.104	.092	.075	.069	.038	.035	.021	.013	.006	.004	.002	.000
33	.379	.279	.188	.173	.160	.152	.138	.110	.104	.094	.079	.071	.038	.035	.023	.013	.006	.004	.002	.000
34	.383	.281	.188	.173	.160	.152	.138	.110	.104	.096	.083	.073	.038	.035	.023	.013	.006	.004	.002	.000
35	.388	.283	.188	.173	.160	.152	.138	.110	.104	.098	.085	.075	.038	.035	.027	.013	.006	.004	.002	.000
36	.392	.285	.188	.173	.160	.152	.138	.110	.104	.098	.088	.075	.038	.035	.029	.013	.006	.004	.002	.000
37	.396	.288	.188	.173	.160	.152	.138	.110	.104	.098	.088	.075	.038	.035	.029	.013	.006	.004	.002	.000
38	.400	.290	.188	.173	.160	.152	.138	.110	.104	.098	.088	.075	.038	.035	.029	.013	.008	.004	.002	.000
39	.404	.292	.188	.173	.160	.152	.138	.110	.104	.098	.088	.075	.038	.035	.023	.013	.010	.004	.002	.000
40	.408	.294	.188	.173	.160	.152	.138	.110	.104	.098	.088	.075	.038	.035	.029	.013	.013	.004	.002	.000

TOTAL OBSERVATIONS 480

TABLE 4.11.b. P(W ≥ W\*) I LAUNCH OPPORTUNITIES IN J PERIODS (W\* = 65 K SEC).  
BASED ON MAXIMUM WIND SPEEDS IN THE 10-15 KM LAYER OVER CAPE KENNEDY, FLORIDA.

PERIOD OF RECORD JANUARY 1956 - DECEMBER 1963.

CAPE KENNEDY, FLORIDA APRIL  
SPEEDS GREATER THAN OR EQUAL TO 070 MPS

PC ( I CONSECUTIVE SUCCESSES IN J PERIODS )

J	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
1	.058																			
2	.090	.027																		
3	.113	.044	.010																	
4	.129	.056	.017	.004																
5	.146	.069	.021	.006	.002															
6	.163	.077	.025	.008	.004	.000														
7	.179	.085	.029	.010	.006	.000	.000													
8	.194	.094	.033	.013	.008	.000	.000	.000												
9	.208	.102	.038	.015	.010	.000	.000	.000	.000											
10	.223	.108	.042	.017	.013	.000	.000	.000	.000	.000										
11	.235	.115	.046	.019	.015	.000	.000	.000	.000	.000	.000									
12	.244	.119	.050	.021	.017	.000	.000	.000	.000	.000	.000	.000								
13	.252	.123	.054	.023	.019	.000	.000	.000	.000	.000	.000	.000	.000							
14	.260	.127	.058	.025	.021	.000	.000	.000	.000	.000	.000	.000	.000	.000						
15	.271	.131	.063	.027	.023	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000					
16	.277	.135	.067	.029	.025	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000				
17	.283	.138	.071	.031	.027	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000			
18	.290	.138	.073	.033	.029	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000		
19	.296	.138	.075	.033	.031	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	
20	.300	.138	.077	.033	.031	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
21	.304	.138	.079	.033	.031	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
22	.308	.138	.081	.033	.031	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
23	.313	.138	.083	.033	.031	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
24	.317	.138	.085	.033	.031	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
25	.319	.138	.088	.033	.031	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
26	.321	.138	.090	.033	.031	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
27	.325	.138	.092	.033	.031	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
28	.329	.138	.094	.033	.031	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
29	.333	.138	.096	.033	.031	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
30	.338	.138	.098	.033	.031	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
31	.342	.138	.100	.033	.031	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
32	.346	.138	.102	.033	.031	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
33	.350	.138	.102	.033	.031	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
34	.354	.138	.102	.033	.031	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
35	.358	.138	.102	.033	.031	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
36	.363	.138	.102	.033	.031	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
37	.367	.138	.102	.033	.031	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
38	.371	.138	.102	.033	.031	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
39	.375	.138	.102	.033	.031	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
40	.379	.138	.102	.033	.031	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000

TOTAL OBSERVATIONS 480

TABLE 4.12.a. P(N ≥ W) I CONSECUTIVE LAUNCH OPPORTUNITIES IN J PERIODS (W = 70 M/SEC).  
BASED ON MAXIMUM WIND SPEEDS IN THE 10-15 KM LAYER OVER CAPE KENNEDY, FLORIDA.  
PERIOD OF RECORD JANUARY 1956 - DECEMBER 1963.

CAPE KENNEDY, FLORIDA APPIL

SPEEDS GREATER THAN OR EQUAL TO 070 MPS

P ( I SUCCESSES IN J PERIODS )

J	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
1	.058																			
2	.092	.027																		
3	.113	.048	.010																	
4	.129	.069	.019	.004																
5	.146	.077	.035	.008	.002															
6	.163	.083	.046	.021	.004	.000														
7	.179	.090	.052	.029	.013	.000	.000													
8	.194	.096	.056	.038	.017	.004	.000	.000												
9	.208	.102	.060	.042	.025	.006	.002	.000	.000											
10	.223	.108	.065	.046	.029	.013	.004	.000	.000	.000										
11	.235	.115	.069	.050	.033	.017	.008	.000	.000	.000	.000									
12	.244	.123	.073	.054	.038	.021	.013	.000	.000	.000	.000	.000								
13	.252	.127	.081	.058	.042	.025	.017	.000	.000	.000	.000	.000	.000							
14	.260	.131	.088	.065	.046	.029	.021	.000	.000	.000	.000	.000	.000	.000						
15	.271	.135	.094	.071	.050	.033	.025	.000	.000	.000	.000	.000	.000	.000	.000					
16	.277	.142	.098	.077	.056	.038	.029	.000	.000	.000	.000	.000	.000	.000	.000	.000				
17	.283	.142	.106	.081	.065	.042	.033	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000			
18	.290	.142	.110	.088	.069	.050	.038	.000	.000	.000	.000	.000	.050	.000	.000	.000	.000	.000		
19	.296	.142	.115	.092	.073	.056	.044	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	
20	.300	.144	.115	.100	.075	.063	.048	.002	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
21	.304	.146	.115	.102	.083	.067	.054	.004	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
22	.308	.148	.115	.102	.092	.073	.058	.008	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
23	.313	.150	.115	.102	.096	.079	.063	.013	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
24	.317	.152	.115	.102	.096	.088	.065	.017	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
25	.319	.156	.115	.102	.096	.090	.073	.021	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
26	.321	.158	.117	.102	.096	.090	.079	.029	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
27	.325	.158	.117	.104	.096	.090	.081	.038	.002	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
28	.329	.158	.117	.106	.096	.090	.081	.048	.004	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
29	.333	.158	.117	.106	.096	.090	.081	.052	.010	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
30	.338	.158	.117	.106	.096	.090	.081	.056	.013	.004	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
31	.342	.158	.117	.106	.096	.090	.081	.060	.013	.006	.002	.000	.000	.000	.000	.000	.000	.000	.000	.000
32	.346	.158	.117	.106	.096	.090	.081	.065	.013	.006	.004	.000	.000	.000	.000	.000	.000	.000	.000	.000
33	.350	.158	.117	.106	.096	.090	.081	.069	.013	.006	.004	.000	.000	.000	.000	.000	.000	.000	.000	.000
34	.354	.158	.117	.106	.096	.090	.081	.073	.013	.006	.004	.000	.000	.000	.000	.000	.000	.000	.000	.000
35	.358	.158	.117	.106	.096	.090	.081	.075	.013	.006	.004	.000	.000	.000	.000	.000	.000	.000	.000	.000
36	.363	.158	.117	.106	.096	.090	.081	.077	.013	.006	.004	.000	.000	.000	.000	.000	.000	.000	.000	.000
37	.367	.158	.117	.106	.096	.090	.081	.077	.015	.006	.004	.000	.000	.000	.000	.000	.000	.000	.000	.000
38	.371	.158	.117	.106	.096	.090	.081	.077	.015	.008	.004	.000	.000	.000	.000	.000	.000	.000	.000	.000
39	.375	.158	.117	.106	.096	.090	.081	.077	.015	.010	.004	.000	.000	.000	.000	.000	.000	.000	.000	.000
40	.379	.158	.117	.106	.096	.090	.081	.077	.015	.013	.004	.000	.000	.000	.000	.000	.000	.000	.000	.000

TOTAL OBSERVATIONS 480

TABLE 4.12.b. P(N ≥ W) I LAUNCH OPPORTUNITIES IN J PERIODS (W = 70 M/SEC).  
 BASED ON MAXIMUM WIND SPEEDS IN THE 10-15 KM LAYER OVER CAPE KENNEDY, FLORIDA.  
 PERIOD OF RECORD JANUARY 1956 - DECEMBER 1963.

CAPE KENNEDY, FLORIDA APRIL  
 SPEEDS GREATER THAN OR EQUAL .0 075 MPS

PC ( I CONSECUTIVE SUCCESSES IN J PERIODS )

	I																			
J	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
1	.027																			
2	.044	.010																		
3	.056	.019	.002																	
4	.069	.025	.004	.000																
5	.075	.031	.006	.000	.000															
6	.081	.038	.008	.000	.000	.000														
7	.088	.044	.010	.000	.000	.000	.000													
8	.094	.050	.013	.000	.000	.000	.000	.000												
9	.100	.056	.015	.000	.000	.000	.000	.000	.000											
10	.106	.063	.017	.000	.000	.000	.000	.000	.000	.000										
11	.110	.069	.019	.000	.000	.000	.000	.000	.000	.000	.000									
12	.115	.073	.021	.000	.000	.000	.000	.000	.000	.000	.000	.000								
13	.119	.077	.023	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000							
14	.123	.081	.025	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000						
15	.129	.085	.027	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000					
16	.135	.090	.029	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000				
17	.140	.094	.031	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000			
18	.144	.098	.033	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000		
19	.148	.102	.035	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	
20	.152	.106	.038	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
21	.156	.110	.040	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
22	.160	.115	.042	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
23	.165	.119	.044	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
24	.167	.121	.046	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
25	.169	.123	.048	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
26	.171	.125	.050	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
27	.173	.127	.052	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
28	.175	.129	.054	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
29	.177	.131	.056	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
30	.179	.131	.058	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
31	.181	.131	.060	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
32	.183	.131	.063	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
33	.185	.131	.063	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
34	.188	.131	.063	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
35	.190	.131	.063	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
36	.192	.131	.063	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
37	.194	.131	.063	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
38	.196	.131	.063	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
39	.198	.131	.063	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
40	.200	.131	.063	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000

TOTAL OBSERVATIONS 480

TABLE 4.13.a.  $P(W \geq W^*)$  I CONSECUTIVE LAUNCH OPPORTUNITIES IN J PERIODS ( $W^* = 75$  M/SEC).  
 BASED ON MAXIMUM WIND SPEEDS IN THE 10-15 KM LAYER OVER CAPE KENNEDY, FLORIDA.  
 PERIOD OF RECORD JANUARY 1956 - DECEMBER 1963.

CAPE KENNEDY, FLORIDA APRIL  
SPEEDS GREATER THAN OR EQUAL TO 075 MPS

P ( I SUCCESSES IN J PERIODS )

J	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
1	.027																			
2	.044	.010																		
3	.056	.021	.002																	
4	.069	.029	.004	.000																
5	.075	.042	.006	.000	.000															
6	.081	.050	.013	.000	.000	.000														
7	.088	.056	.021	.000	.000	.000	.000													
8	.094	.063	.025	.002	.000	.000	.000	.000												
9	.100	.069	.029	.004	.000	.000	.000	.000	.000											
10	.106	.075	.033	.006	.000	.000	.000	.030	.000	.000										
11	.110	.081	.038	.008	.000	.000	.000	.000	.000	.000	.000									
12	.115	.085	.042	.010	.000	.000	.000	.000	.000	.000	.000	.000								
13	.119	.090	.046	.013	.000	.000	.000	.000	.000	.000	.000	.000	.000							
14	.123	.094	.050	.015	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000						
15	.129	.098	.054	.017	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000					
16	.135	.102	.058	.019	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000				
17	.140	.106	.063	.021	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000			
18	.144	.110	.067	.023	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000		
19	.148	.113	.071	.025	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	
20	.152	.115	.075	.027	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
21	.156	.117	.079	.029	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
22	.160	.119	.083	.031	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
23	.165	.121	.085	.033	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
24	.167	.125	.088	.033	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
25	.169	.127	.092	.033	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
26	.171	.129	.094	.035	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
27	.173	.131	.096	.038	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
28	.175	.131	.100	.040	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
29	.177	.131	.100	.046	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
30	.179	.131	.100	.048	.004	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
31	.181	.131	.100	.048	.006	.002	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
32	.183	.131	.100	.048	.006	.004	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
33	.185	.131	.100	.048	.006	.004	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
34	.188	.131	.100	.048	.006	.004	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
35	.190	.131	.100	.048	.006	.004	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
36	.192	.131	.100	.048	.006	.004	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
37	.194	.131	.100	.048	.006	.004	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
38	.196	.131	.100	.048	.006	.004	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
39	.198	.131	.100	.048	.006	.004	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
40	.200	.131	.100	.048	.006	.004	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000

TOTAL OBSERVATIONS 480

TABLE 4.13.b. P(W ≥ W\*) I LAUNCH OPPORTUNITIES IN J PERIODS (W\* = 75 M/SEC).  
BASED ON MAXIMUM WIND SPEEDS IN THE 10-15 KM LAYER OVER CAPE KENNEDY, FLORIDA.  
PERIOD OF RECORD JANUARY 1956 - DECEMBER 1963.

CAPE KENNEDY . FLORIDA APRIL  
 SPEEDS GREATER THAN OR EQUAL TO 080 MPS

PC ( I CONSECUTIVE SUCCESSES IN J PERIODS )

I

J	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	
1	.013																				
2	.021	.004																			
3	.027	.008	.000																		
4	.033	.010	.000	.000																	
5	.038	.013	.000	.000	.000																
6	.042	.015	.000	.000	.000	.000															
7	.046	.017	.000	.000	.000	.000	.000														
8	.050	.019	.000	.000	.000	.000	.000	.000													
9	.054	.021	.000	.000	.000	.000	.000	.000	.000												
10	.058	.023	.000	.000	.000	.000	.000	.000	.000	.000											
11	.063	.025	.000	.000	.000	.000	.000	.000	.000	.000	.000										
12	.067	.027	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000									
13	.071	.029	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000								
14	.075	.031	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000							
15	.079	.033	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000						
16	.083	.035	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000					
17	.088	.038	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000				
18	.092	.040	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000			
19	.094	.042	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000		
20	.096	.044	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	
21	.098	.046	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	
22	.100	.048	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	
23	.102	.050	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	
24	.104	.050	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	
25	.106	.050	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	
26	.108	.050	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	
27	.110	.050	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	
28	.113	.050	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	
29	.113	.050	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	
30	.113	.050	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	
31	.113	.050	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	
32	.113	.050	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	
33	.113	.050	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	
34	.113	.050	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	
35	.113	.050	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	
36	. 3	.050	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	
37	.113	.050	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	
38	.113	.050	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	
39	.113	.050	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	
40	.113	.050	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	

TOTAL OBSERVATIONS 480

TABLE 4.14.a. P(W ≥ W<sub>0</sub>) I CONSECUTIVE LAUNCH OPPORTUNITIES IN J PERIODS (W<sub>0</sub> = 80 M/SEC).  
 BASED ON MAXIMUM WIND SPEEDS IN THE 10-15 KM LAYER OVER CAPE KENNEDY, FLORIDA.  
 PERIOD OF RECORD JANUARY 1956 - DECEMBER 1963.

CAPF KENNEDY . FLORIDA APRIL  
 SPEEDS GREATER THAN OR EQUAL TO 080 MPS

P ( I SUCCESSES IN J PERIODS )

	I																			
J	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
1	.013																			
2	.021	.004																		
3	.027	.008	.000																	
4	.033	.010	.000	.000																
5	.038	.015	.000	.000	.000															
6	.042	.017	.002	.000	.000	.000														
7	.046	.019	.004	.000	.000	.000	.000													
8	.050	.021	.006	.000	.000	.000	.000	.000												
9	.054	.023	.008	.000	.000	.000	.000	.000	.000											
10	.058	.025	.010	.000	.000	.000	.000	.000	.000	.000										
11	.063	.027	.013	.000	.000	.000	.000	.000	.000	.000	.000									
12	.067	.029	.015	.000	.000	.000	.000	.000	.000	.000	.000	.000								
13	.071	.031	.017	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000							
14	.075	.033	.019	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000						
15	.079	.035	.021	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000					
16	.083	.038	.023	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000				
17	.088	.040	.025	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000			
18	.092	.042	.027	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000		
19	.094	.044	.029	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	
20	.096	.046	.031	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
21	.098	.048	.033	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
22	.100	.050	.035	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
23	.102	.050	.038	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
24	.104	.050	.038	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
25	.106	.050	.038	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
26	.108	.050	.038	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
27	.110	.050	.038	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
28	.113	.050	.038	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
29	.113	.052	.038	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
30	.113	.052	.040	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
31	.113	.052	.042	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
32	.113	.052	.042	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
33	.113	.052	.042	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
34	.113	.052	.042	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
35	.113	.052	.042	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
36	.113	.052	.042	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
37	.113	.052	.042	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
38	.113	.052	.042	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
39	.113	.052	.042	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
40	.113	.052	.042	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000

TOTAL OBSERVATIONS 440

TABLE 4.14. P(W ≥ W\*) I LAUNCH OPPORTUNITIES IN J PERIODS (W\* = 80 M/SEC).  
 BASED ON MAXIMUM WIND SPEEDS IN THE 10-15 KM LAYER OVER CAPE KENNEDY, FLORIDA.  
 PERIOD OF RECORD JANUARY 1956 - DECEMBER 1963.



CAPE KENNEDY, FLORIDA MAY

SPEEDS GREATER THAN OR EQUAL TO 010 MPS

PC ( I CONSECUTIVE SUCCESSSES IN J PERIODS )

	I																			
J	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
1	.974																			
2	.990	.956																		
3	.994	.968	.942																	
4	.998	.980	.952	.927																
5	1.00	.986	.962	.935	.913															
6	1.00	.990	.974	.944	.921	.899														
7	1.00	.992	.980	.954	.929	.907	.887													
8	1.00	.994	.984	.966	.940	.915	.895	.875												
9	1.00	.996	.988	.972	.952	.925	.903	.883	.863											
10	1.00	.998	.992	.976	.946	.938	.913	.891	.869	.853										
11	1.00	1.00	.996	.980	.972	.952	.925	.901	.875	.859	.843									
12	1.00	1.00	.998	.984	.976	.966	.940	.913	.883	.865	.833									
13	1.00	1.00	1.00	.988	.980	.972	.954	.927	.893	.873	.855	.839	.821							
14	1.00	1.00	1.00	.990	.984	.976	.966	.942	.905	.983	.873	.845	.827	.808						
15	1.00	1.00	1.00	.992	.988	.980	.972	.954	.917	.895	.873	.853	.833	.815	.794					
16	1.00	1.00	1.00	.994	.990	.984	.976	.966	.927	.907	.885	.863	.841	.821	.800	.780				
17	1.00	1.00	1.00	.996	.992	.988	.980	.972	.938	.917	.897	.875	.851	.829	.806	.786	.762			
18	1.00	1.00	1.00	.998	.994	.990	.984	.976	.948	.927	.907	.887	.863	.839	.815	.792	.766	.746		
19	1.00	1.00	1.00	1.00	.996	.992	.988	.980	.954	.938	.917	.897	.875	.851	.825	.800	.770	.750	.728	
20	1.00	1.00	1.00	1.00	.998	.994	.990	.984	.958	.948	.927	.907	.885	.863	.837	.810	.776	.754	.732	.710
21	1.00	1.00	1.00	1.00	1.00	.996	.992	.988	.962	.954	.938	.917	.895	.873	.849	.823	.784	.760	.736	.714
22	1.00	1.00	1.00	1.00	1.00	.998	.994	.990	.966	.958	.948	.927	.905	.883	.859	.835	.794	.768	.742	.718
23	1.00	1.00	1.00	1.00	1.00	1.00	.996	.992	.970	.962	.954	.938	.915	.893	.869	.845	.804	.778	.750	.724
24	1.00	1.00	1.00	1.00	1.00	1.00	.998	.994	.972	.966	.958	.948	.925	.903	.879	.855	.813	.788	.760	.732
25	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.996	.974	.970	.962	.954	.935	.913	.889	.865	.821	.796	.770	.742
26	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.998	.976	.972	.966	.958	.946	.923	.899	.875	.829	.804	.778	.752
27	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.978	.974	.970	.962	.952	.933	.909	.885	.837	.813	.786	.760
28	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.980	.976	.972	.966	.956	.944	.919	.895	.845	.821	.794	.768
29	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.982	.978	.974	.970	.960	.950	.929	.905	.853	.829	.802
30	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.984	.980	.976	.972	.964	.954	.942	.915	.861	.837	.810
31	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.986	.982	.978	.974	.968	.958	.948	.927	.869	.845	.819	.792
32	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.988	.984	.980	.976	.970	.962	.952	.940	.879	.853	.827	.800
33	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.990	.986	.982	.978	.972	.966	.956	.946	.889	.863	.835	.808
34	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.992	.988	.984	.980	.974	.968	.960	.950	.899	.873	.843	.817
35	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.994	.990	.986	.982	.976	.970	.964	.954	.905	.883	.851	.825
36	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.996	.992	.988	.984	.978	.972	.966	.958	.909	.893	.859	.833
37	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.998	.994	.990	.986	.980	.974	.968	.962	.913	.899	.867	.841
38	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.996	.992	.988	.982	.976	.970	.964	.919	.903	.875	.849	
39	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.998	.994	.990	.984	.978	.972	.966	.923	.909	.881	.857	
40	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.996	.992	.986	.980	.974	.968	.927	.915	.887	.865	

TOTAL OBSERVATIONS 496

TABLE 5. 1.a. P(W ≥ W\*) I CONSECUTIVE LAUNCH OPPORTUNITIES IN J PERIODS (W\* = 10 M/SEC).  
 BASED ON MAXIMUM WIND SPEEDS IN THE 10-15 KM LAYER OVER CAPE KENNEDY, FLORIDA.  
 PERIOD OF RECORD JANUARY 1956 - DECEMBER 1963.

CAPF KENNEDY, FLORIDA MAY  
 SPEEDS GREATER THAN OR EQUAL TO 010 MPS

P / I SUCCESSES IN J PERIODS )

	I																			
J	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
1	.974																			
2	.990	.956																		
3	.994	.980	.942																	
4	.998	.986	.972	.927																
5	1.00	.990	.984	.962	.913															
6	1.00	.994	.988	.978	.956	.899														
7	1.00	.996	.992	.984	.974	.950	.887													
8	1.00	.998	.994	.988	.982	.970	.944	.875												
9	1.00	1.00	.996	.992	.984	.980	.966	.938	.863											
10	1.00	1.00	1.00	.994	.988	.982	.978	.962	.929	.853										
11	1.00	1.00	1.00	1.00	.990	.986	.980	.976	.958	.921	.843									
12	1.00	1.00	1.00	1.00	.998	.988	.984	.978	.974	.954	.913	.833								
13	1.00	1.00	1.00	1.00	1.00	.996	.986	.982	.976	.972	.950	.905	.821							
14	1.00	1.00	1.00	1.00	1.00	1.00	.994	.984	.980	.974	.970	.944	.897	.808						
15	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.992	.982	.978	.972	.966	.938	.889	.794					
16	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.990	.980	.976	.968	.964	.931	.881	.780				
17	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.988	.978	.972	.966	.960	.925	.873	.762			
18	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.986	.976	.968	.962	.956	.919	.861	.746		
19	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.984	.972	.966	.958	.952	.911	.849	.726	
20	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.980	.970	.962	.954	.946	.901	.839	.710
21	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.998	.978	.966	.958	.948	.940	.801	.827
22	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.996	.976	.962	.954	.942	.933	.881
23	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.994	.974	.958	.950	.935	.925
24	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.992	.972	.954	.946	.929
25	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.990	.970	.950	.942
26	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.988	.968	.946
27	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.986	.966
28	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.984
29	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
30	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
31	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
32	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
33	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
34	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
35	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
36	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
37	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
38	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
39	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
40	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00

TOTAL OBSERVATIONS 496

TABLE 5. 1-b. P(W ≥ W<sub>0</sub>) I LAUNCH OPPORTUNITIES IN J PERIODS (W<sub>0</sub> = 10 M/SEC).  
 BASED ON MAXIMUM WIND SPEEDS IN THE 10-15 KM LAYER OVER CAPE KENNEDY, FLORIDA.

PERIOD OF RECORD JANUARY 1956 - DECEMBER 1963.

CAPF KENNEDY, FLORIDA MAY  
SPEEDS GREATER THAN OR EQUAL TO 015 MPS

PC ( I CONSECUTIVE SUCCESSES IN J PERIODS )

	I																			
J	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
1	.865																			
2	.905	.817																		
3	.925	.849	.776																	
4	.940	.881	.808	.736																
5	.952	.903	.841	.766	.698															
6	.964	.917	.877	.796	.722	.663														
7	.970	.929	.899	.831	.746	.683	.633													
8	.974	.942	.913	.865	.774	.704	.651	.605												
9	.978	.950	.927	.885	.802	.728	.669	.621	.577											
10	.982	.958	.940	.901	.831	.752	.692	.637	.593	.548										
11	.986	.966	.948	.917	.851	.776	.714	.657	.609	.565	.522									
12	.990	.976	.956	.931	.865	.802	.736	.677	.629	.581	.538	.496								
13	.994	.982	.966	.942	.877	.821	.760	.698	.649	.601	.554	.512	.470							
14	.998	.989	.976	.954	.889	.833	.784	.720	.669	.621	.573	.528	.484	.446						
15	1.00	.994	.982	.966	.901	.845	.798	.742	.692	.641	.591	.544	.498	.460	.421					
16	1.00	.998	.988	.976	.913	.859	.810	.762	.714	.663	.609	.560	.512	.474	.435	.397				
17	1.00	1.00	.994	.982	.925	.871	.825	.778	.734	.685	.629	.577	.526	.488	.450	.411	.373			
18	1.00	1.00	.998	.988	.935	.883	.839	.794	.754	.706	.649	.595	.540	.502	.462	.425	.385	.351		
19	1.00	1.00	1.00	.994	.942	.895	.851	.810	.772	.726	.667	.613	.556	.516	.474	.438	.397	.363	.331	
20	1.00	1.00	1.00	.998	.946	.903	.863	.827	.788	.744	.685	.629	.573	.532	.486	.450	.407	.375	.341	.313
21	1.00	1.00	1.00	1.00	.950	.909	.873	.841	.804	.766	.706	.645	.587	.548	.500	.462	.417	.385	.351	.321
22	1.00	1.00	1.00	1.00	.954	.913	.883	.855	.821	.782	.724	.663	.601	.563	.514	.476	.427	.395	.359	.329
23	1.00	1.00	1.00	1.00	.958	.917	.889	.869	.835	.798	.740	.679	.617	.577	.526	.490	.440	.405	.367	.335
24	1.00	1.00	1.00	1.00	.960	.921	.895	.879	.849	.815	.754	.696	.631	.593	.538	.502	.452	.417	.375	.341
25	1.00	1.00	1.00	1.00	.962	.925	.901	.885	.863	.829	.768	.710	.645	.607	.552	.514	.462	.429	.383	.347
26	1.00	1.00	1.00	1.00	.966	.929	.907	.891	.873	.845	.782	.722	.659	.621	.565	.528	.472	.440	.391	.353
27	1.00	1.00	1.00	1.00	.968	.935	.913	.897	.879	.837	.796	.734	.671	.635	.577	.540	.484	.450	.397	.359
28	1.00	1.00	1.00	1.00	.970	.942	.921	.903	.885	.867	.810	.746	.681	.649	.589	.552	.496	.462	.403	.363
29	1.00	1.00	1.00	1.00	.972	.946	.929	.911	.891	.873	.825	.758	.692	.661	.601	.565	.508	.474	.411	.367
30	1.00	1.00	1.00	1.00	.974	.950	.938	.919	.899	.879	.835	.770	.702	.671	.613	.577	.520	.486	.419	.373
31	1.00	1.00	1.00	1.00	.976	.954	.944	.927	.907	.885	.841	.782	.712	.681	.623	.589	.532	.498	.427	.379
32	1.00	1.00	1.00	1.00	.978	.958	.948	.935	.915	.891	.847	.792	.722	.692	.631	.601	.544	.510	.435	.385
33	1.00	1.00	1.00	1.00	.980	.962	.952	.942	.923	.897	.853	.800	.734	.702	.639	.611	.556	.522	.444	.391
34	1.00	1.00	1.00	1.00	.982	.966	.956	.946	.931	.903	.861	.808	.742	.712	.647	.619	.569	.534	.452	.397
35	1.00	1.00	1.00	1.00	.984	.970	.960	.950	.938	.909	.869	.819	.750	.722	.655	.627	.579	.546	.460	.403
36	1.00	1.00	1.00	1.00	.986	.974	.964	.954	.942	.915	.877	.829	.760	.728	.663	.635	.589	.558	.468	.409
37	1.00	1.00	1.00	1.00	.988	.978	.968	.958	.946	.921	.883	.839	.770	.736	.671	.643	.599	.569	.476	.415
38	1.00	1.00	1.00	1.00	.990	.982	.972	.962	.950	.925	.889	.849	.780	.744	.679	.651	.609	.579	.484	.421
39	1.00	1.00	1.00	1.00	.990	.984	.976	.966	.954	.929	.901	.859	.790	.752	.688	.659	.619	.589	.490	.427
40	1.00	1.00	1.00	1.00	.992	.988	.980	.970	.958	.933	.907	.869	.800	.760	.696	.669	.629	.599	.496	.433

TOTAL OBSERVATIONS 496

TABLE 5. 2.a.  $P(W \geq W_0)$  I CONSECUTIVE LAUNCH OPPORTUNITIES IN J PERIODS ( $W_0 = 15$  M/SEC).  
BASED ON MAXIMUM WIND SPEEDS IN THE 10-15 KM LAYER OVER CAPE KENNEDY, FLORIDA.  
PERIOD OF RECORD JANUARY 1956 - DECEMBER 1963.

CAPE KENNEDY, FLORIDA MAY  
SPEEDS GREATER THAN OR EQUAL TO 015 MPS

P ( I SUCCESSES IN J PERIODS )

I

J	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
1	.865																			
2	.905	.817																		
3	.925	.869	.776																	
4	.940	.899	.841	.736																
5	.952	.915	.879	.813	.698															
6	.964	.925	.899	.857	.782	.663														
7	.970	.946	.909	.881	.833	.754	.633													
8	.974	.956	.933	.893	.857	.813	.730	.605												
9	.978	.962	.946	.923	.867	.837	.792	.708	.577											
10	.982	.978	.954	.935	.901	.845	.819	.776	.683	.548										
11	.986	.974	.962	.946	.913	.881	.829	.804	.756	.659	.522									
12	.990	.980	.968	.956	.925	.893	.867	.817	.786	.736	.635	.496								
13	.994	.986	.974	.962	.938	.905	.881	.857	.798	.768	.716	.611	.470							
14	.998	.990	.982	.968	.949	.917	.895	.873	.845	.780	.748	.696	.585	.446						
15	1.00	.996	.986	.978	.950	.921	.907	.891	.863	.831	.758	.730	.573	.558	.421					
16	1.00	1.00	.994	.982	.962	.925	.911	.903	.885	.853	.810	.740	.710	.651	.534	.397				
17	1.00	1.00	1.00	.992	.966	.938	.915	.907	.897	.879	.835	.794	.720	.690	.631	.510	.373			
18	1.00	1.00	1.00	1.00	.978	.942	.927	.911	.901	.891	.865	.819	.776	.700	.669	.611	.484	.351		
19	1.00	1.00	1.00	1.00	.990	.954	.931	.923	.905	.895	.879	.851	.800	.758	.677	.653	.587	.460	.331	
20	1.00	1.00	1.00	1.00	.992	.968	.944	.927	.917	.899	.883	.869	.835	.782	.736	.661	.635	.563	.435	.313
21	1.00	1.00	1.00	1.00	.994	.972	.958	.940	.921	.911	.887	.873	.857	.819	.758	.722	.645	.615	.538	.413
22	1.00	1.00	1.00	1.00	.996	.976	.962	.954	.935	.915	.899	.877	.861	.843	.794	.744	.708	.627	.597	.514
23	1.00	1.00	1.00	1.00	.998	.980	.966	.958	.950	.931	.903	.889	.865	.847	.821	.780	.730	.642	.611	.579
24	1.00	1.00	1.00	1.00	1.00	.984	.970	.962	.954	.946	.923	.893	.877	.851	.825	.808	.766	.716	.673	.597
25	1.00	1.00	1.00	1.00	1.00	.990	.974	.966	.958	.950	.940	.915	.881	.863	.829	.813	.796	.752	.702	.655
26	1.00	1.00	1.00	1.00	1.00	.992	.982	.972	.962	.954	.946	.931	.905	.867	.841	.817	.800	.784	.738	.685
27	1.00	1.00	1.00	1.00	1.00	.994	.986	.978	.966	.958	.950	.940	.923	.891	.845	.829	.804	.788	.772	.722
28	1.00	1.00	1.00	1.00	1.00	.996	.990	.982	.974	.962	.954	.944	.933	.911	.869	.833	.817	.792	.776	.758
29	1.00	1.00	1.00	1.00	1.00	.998	.994	.986	.978	.970	.958	.948	.938	.925	.889	.857	.821	.804	.780	.762
30	1.00	1.00	1.00	1.00	1.00	1.00	.996	.992	.982	.974	.966	.954	.942	.929	.907	.877	.845	.808	.792	.766
31	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.994	.990	.978	.970	.962	.948	.933	.913	.897	.863	.833	.796	.772
32	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.992	.988	.974	.966	.958	.942	.919	.903	.885	.849	.821	.784
33	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.990	.984	.970	.962	.952	.931	.909	.897	.871	.837	.808
34	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.988	.984	.966	.956	.944	.923	.897	.877	.859	.825
35	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.986	.982	.960	.950	.935	.913	.883	.863	.849
36	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.984	.980	.954	.944	.925	.903	.867	.853
37	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.982	.978	.948	.938	.913	.889	.857
38	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.980	.976	.942	.927	.897	.881
39	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.978	.974	.933	.909	.891
40	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.976	.970	.915	.903

TOTAL OBSERVATIONS 496

TABLE 5. 2.b. P(W ≥ W<sub>0</sub>) I LAUNCH OPPORTUNITIES IN J PERIODS (W<sub>0</sub> = 15 M/SEC).  
BASED ON MAXIMUM WIND SPEEDS IN THE 10-15 KM LAYER OVER CAPE KENNEDY, FLORIDA.  
PERIOD OF RECORD JANUARY 1956 - DECEMBER 1963.

CAPE KENNEDY, FLORIDA MAY

SPEEDS GREATER THAN OR EQUAL TO 020 MPS

PC ( I CONSECUTIVE SUCCESSES IN J PERIODS )

	I																			
J	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
1	.734																			
2	.806	.659																		
3	.851	.710	.607																	
4	.879	.756	.649	.560																
5	.893	.786	.688	.599	.516															
6	.907	.810	.726	.633	.552	.474														
7	.919	.829	.754	.667	.585	.506	.435													
8	.933	.841	.782	.702	.617	.534	.462	.402												
9	.944	.855	.804	.730	.649	.563	.484	.425	.375											
10	.954	.867	.825	.758	.683	.591	.506	.444	.397	.351										
11	.964	.877	.841	.784	.710	.619	.528	.462	.415	.371	.329									
12	.970	.889	.853	.808	.740	.647	.550	.480	.433	.387	.349	.306								
13	.976	.899	.867	.827	.764	.671	.573	.498	.452	.403	.365	.323	.288							
14	.982	.907	.879	.845	.784	.696	.597	.516	.470	.419	.381	.335	.304	.270						
15	.986	.915	.889	.863	.802	.716	.615	.516	.488	.435	.397	.347	.317	.286	.252					
16	.990	.923	.897	.877	.819	.738	.631	.556	.508	.452	.413	.359	.329	.298	.266	.236				
17	.994	.929	.905	.887	.835	.756	.647	.569	.528	.470	.429	.371	.339	.310	.276	.250	.220			
18	.998	.935	.913	.895	.848	.774	.663	.583	.544	.488	.448	.383	.349	.321	.286	.260	.234	.204		
19	1.00	.942	.919	.903	.859	.792	.677	.597	.556	.504	.466	.397	.359	.331	.294	.270	.244	.218	.188	
20	1.00	.948	.925	.911	.867	.808	.692	.611	.569	.520	.482	.411	.371	.341	.302	.278	.254	.227	.200	.173
21	1.00	.952	.931	.917	.875	.821	.706	.623	.581	.532	.498	.423	.383	.353	.310	.286	.262	.235	.208	.183
22	1.00	.956	.938	.923	.883	.831	.718	.635	.593	.544	.514	.435	.393	.365	.321	.294	.270	.246	.216	.190
23	1.00	.960	.942	.929	.889	.841	.728	.647	.603	.556	.526	.448	.403	.375	.331	.304	.278	.254	.222	.196
24	1.00	.964	.946	.935	.895	.849	.736	.657	.613	.569	.538	.460	.413	.385	.339	.315	.286	.262	.228	.200
25	1.00	.968	.950	.940	.901	.855	.744	.665	.623	.579	.550	.468	.423	.395	.347	.323	.294	.270	.234	.204
26	1.00	.972	.954	.944	.907	.861	.750	.671	.631	.589	.563	.476	.433	.405	.355	.331	.300	.278	.240	.208
27	1.00	.976	.958	.948	.913	.869	.756	.677	.637	.599	.573	.484	.440	.415	.363	.339	.306	.284	.246	.212
28	1.00	.980	.962	.952	.919	.877	.764	.683	.641	.607	.583	.492	.446	.425	.371	.347	.313	.290	.252	.216
29	1.00	.984	.966	.956	.925	.885	.772	.692	.645	.615	.593	.498	.452	.431	.379	.355	.319	.296	.258	.220
30	1.00	.988	.970	.960	.931	.893	.780	.700	.651	.621	.601	.504	.458	.438	.387	.363	.325	.302	.264	.224
31	1.00	.992	.974	.964	.938	.901	.788	.708	.657	.629	.609	.510	.462	.444	.391	.371	.331	.308	.270	.228
32	1.00	.994	.978	.968	.944	.909	.796	.716	.663	.637	.617	.514	.466	.450	.395	.379	.337	.315	.276	.232
33	1.00	.998	.982	.972	.950	.917	.804	.724	.669	.645	.625	.518	.470	.454	.399	.383	.343	.321	.282	.236
34	1.00	1.00	.986	.976	.956	.925	.813	.732	.675	.653	.633	.522	.472	.458	.403	.387	.349	.327	.288	.240
35	1.00	1.00	.988	.980	.962	.933	.821	.740	.681	.661	.641	.528	.474	.462	.405	.391	.351	.333	.294	.244
36	1.00	1.00	.990	.984	.968	.942	.829	.748	.688	.669	.649	.530	.476	.464	.407	.395	.353	.339	.300	.248
37	1.00	1.00	.990	.986	.974	.950	.837	.756	.694	.675	.657	.534	.478	.466	.409	.397	.355	.341	.306	.252
38	1.00	1.00	.990	.988	.980	.958	.845	.764	.700	.681	.663	.538	.480	.468	.411	.399	.357	.343	.313	.256
39	1.00	1.00	.992	.988	.982	.966	.853	.772	.706	.688	.669	.542	.482	.470	.413	.401	.357	.345	.315	.260
40	1.00	1.00	.994	.990	.984	.974	.861	.780	.712	.694	.675	.546	.484	.472	.415	.403	.357	.347	.317	.264

TOTAL OBSERVATIONS 496

TABLE 5. S.a. P(W ≥ W<sub>0</sub>) I CONSECUTIVE LAUNCH OPPORTUNITIES IN J PERIODS (W<sub>0</sub> = 20 M/SEC).  
 BASED ON MAXIMUM WIND SPEEDS IN THE 10-15 KM LAYER OVER CAPE KENNEDY, FLORIDA.  
 PERIOD OF RECORD JANUARY 1956 - DECEMBER 1963.

CAPE KENNEDY, FLORIDA MAY  
SPEEDS GREATER THAN OR EQUAL TO 020 MPS

P ( I SUCCESSES IN J PERIODS )

	I																			
J	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
1	.734																			
2	.806	.659																		
3	.851	.734	.607																	
4	.879	.780	.690	.560																
5	.893	.821	.740	.647	.516															
6	.907	.841	.790	.700	.609	.474														
7	.919	.857	.813	.764	.663	.567	.435													
8	.933	.867	.833	.792	.736	.619	.528	.403												
9	.944	.883	.847	.813	.770	.698	.577	.496	.375											
10	.954	.893	.865	.825	.796	.738	.663	.530	.472	.351										
11	.964	.903	.877	.843	.808	.774	.704	.617	.500	.448	.329									
12	.970	.917	.887	.857	.827	.790	.744	.665	.581	.472	.425	.306								
13	.976	.921	.907	.867	.845	.808	.762	.716	.627	.544	.448	.399	.288							
14	.982	.925	.915	.889	.855	.829	.784	.740	.677	.591	.510	.419	.379	.270						
15	.986	.931	.921	.901	.879	.839	.808	.762	.708	.643	.550	.476	.399	.359	.252					
16	.990	.935	.927	.911	.891	.867	.819	.786	.734	.679	.601	.512	.450	.379	.337	.236				
17	.994	.940	.931	.921	.899	.881	.849	.794	.768	.704	.643	.556	.480	.427	.355	.321	.220			
18	.998	.944	.935	.927	.909	.889	.865	.825	.776	.748	.677	.595	.514	.460	.403	.333	.306	.204		
19	1.00	.950	.940	.931	.917	.899	.873	.845	.802	.756	.728	.629	.544	.494	.438	.375	.317	.294	.188	
20	1.00	.956	.946	.935	.921	.909	.885	.851	.825	.784	.736	.685	.577	.520	.472	.413	.353	.304	.280	.173
21	1.00	.960	.952	.942	.925	.913	.897	.863	.831	.806	.766	.704	.631	.548	.496	.448	.393	.337	.288	.268
22	1.00	.964	.956	.948	.931	.917	.901	.877	.843	.813	.790	.740	.659	.595	.522	.470	.427	.377	.317	.276
23	1.00	.968	.960	.952	.938	.925	.905	.883	.859	.823	.798	.768	.700	.629	.563	.492	.446	.411	.357	.300
24	1.00	.972	.964	.956	.942	.931	.915	.887	.867	.839	.808	.776	.736	.671	.603	.524	.464	.425	.389	.341
25	1.00	.976	.968	.960	.946	.935	.921	.901	.871	.851	.823	.786	.748	.712	.647	.571	.486	.440	.401	.373
26	1.00	.980	.972	.964	.950	.940	.927	.907	.885	.857	.837	.798	.762	.726	.690	.619	.530	.456	.411	.383
27	1.00	.984	.976	.968	.954	.944	.933	.913	.891	.871	.845	.817	.770	.746	.704	.667	.575	.500	.425	.389
28	1.00	.988	.980	.972	.958	.948	.938	.921	.897	.877	.859	.827	.790	.754	.726	.685	.621	.548	.464	.399
29	1.00	.992	.984	.976	.962	.952	.942	.927	.907	.883	.865	.839	.802	.774	.736	.710	.647	.593	.510	.433
30	1.00	.996	.988	.980	.966	.956	.946	.931	.917	.891	.871	.845	.815	.788	.756	.720	.683	.617	.554	.478
31	1.00	.998	.994	.984	.970	.960	.950	.935	.923	.901	.879	.853	.819	.802	.774	.738	.696	.657	.585	.520
32	1.00	1.00	.996	.992	.976	.964	.954	.940	.927	.909	.889	.863	.825	.806	.790	.758	.716	.669	.631	.554
33	1.00	1.00	1.00	.994	.988	.968	.958	.944	.933	.913	.899	.873	.835	.813	.794	.778	.738	.688	.649	.603
34	1.00	1.00	1.00	1.00	.992	.980	.962	.948	.938	.921	.903	.887	.849	.821	.798	.782	.764	.708	.665	.625
35	1.00	1.00	1.00	1.00	1.00	.984	.976	.952	.942	.925	.911	.893	.861	.829	.806	.786	.770	.736	.683	.643
36	1.00	1.00	1.00	1.00	1.00	.994	.980	.968	.946	.929	.915	.901	.871	.843	.815	.794	.774	.742	.712	.667
37	1.00	1.00	1.00	1.00	1.00	.996	.992	.974	.962	.933	.919	.905	.883	.851	.829	.802	.782	.748	.718	.696
38	1.00	1.00	1.00	1.00	1.00	.998	.994	.990	.968	.950	.923	.909	.889	.863	.837	.817	.790	.756	.722	.704
39	1.00	1.00	1.00	1.00	1.00	1.00	.996	.992	.988	.960	.938	.913	.893	.869	.853	.823	.804	.764	.728	.706
40	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.994	.990	.964	.952	.925	.897	.873	.859	.841	.810	.778	.734	.710

TOTAL OBSERVATIONS 496

TABLE 5. 3.b. P(N ≥ W) I LAUNCH OPPORTUNITIES IN J PERIODS (W = 20 M/SEC).  
BASED ON MAXIMUM WIND SPEEDS IN THE 10-15 KM LAYER OVER CAPE KENNEDY, FLORIDA.

PERIOD OF RECORD JANUARY 1956 - DECEMBER 1963.

8

CAPE KENNEDY, FLORIDA MAY  
SPEEDS GREATER THAN OR EQUAL TO 025 MPS

PC ( I CONSECUTIVE SUCCESSES IN J PERIODS )

	I																			
J	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
1	.520																			
2	.613	.425																		
3	.677	.480	.365																	
4	.716	.534	.417	.308																
5	.746	.569	.470	.355	.256															
6	.770	.595	.518	.401	.290	.216														
7	.794	.617	.550	.444	.325	.244	.181													
8	.821	.635	.577	.484	.355	.272	.208	.151												
9	.843	.653	.599	.514	.385	.296	.234	.175	.125											
10	.857	.673	.619	.538	.415	.321	.256	.200	.143	.105										
11	.873	.694	.637	.560	.438	.345	.278	.220	.161	.123	.085									
12	.887	.714	.655	.579	.458	.369	.300	.240	.175	.141	.099	.071								
13	.895	.734	.675	.593	.476	.389	.323	.260	.190	.155	.113	.083	.058							
14	.903	.752	.694	.609	.492	.405	.347	.280	.206	.169	.123	.095	.071	.046						
15	.911	.770	.710	.625	.508	.421	.365	.302	.222	.185	.133	.103	.083	.056	.036					
16	.919	.786	.726	.637	.524	.440	.381	.325	.240	.202	.143	.111	.091	.067	.042	.030				
17	.925	.800	.742	.649	.538	.458	.399	.341	.258	.220	.153	.119	.099	.073	.048	.034	.026			
18	.931	.815	.756	.661	.552	.474	.417	.355	.276	.238	.165	.127	.107	.079	.050	.038	.030	.022		
19	.938	.827	.768	.673	.567	.490	.433	.369	.292	.256	.177	.137	.115	.085	.052	.040	.034	.024	.020	
20	.944	.839	.780	.683	.581	.506	.450	.381	.306	.274	.190	.147	.125	.091	.054	.042	.036	.026	.022	.018
21	.948	.849	.792	.692	.595	.520	.466	.393	.319	.290	.202	.157	.135	.099	.056	.044	.038	.028	.024	.020
22	.952	.859	.804	.700	.607	.534	.482	.405	.331	.302	.214	.167	.145	.107	.058	.046	.040	.030	.026	.022
23	.956	.867	.817	.708	.617	.548	.496	.417	.341	.315	.222	.177	.155	.115	.060	.048	.042	.032	.028	.024
24	.960	.875	.829	.716	.627	.560	.510	.429	.351	.324	.230	.185	.165	.123	.063	.050	.044	.034	.030	.026
25	.964	.882	.837	.724	.635	.571	.524	.440	.361	.334	.238	.194	.173	.131	.065	.052	.046	.036	.032	.028
26	.968	.893	.845	.732	.643	.581	.536	.450	.371	.344	.246	.202	.181	.137	.067	.054	.048	.038	.034	.030
27	.972	.903	.853	.738	.651	.591	.548	.460	.379	.355	.254	.210	.190	.143	.069	.056	.050	.040	.036	.032
28	.976	.913	.863	.744	.659	.601	.560	.468	.387	.365	.262	.218	.198	.149	.071	.058	.052	.042	.038	.034
29	.980	.923	.873	.752	.665	.611	.573	.476	.395	.373	.270	.226	.206	.155	.073	.060	.054	.044	.040	.036
30	.984	.933	.883	.760	.673	.621	.585	.484	.401	.381	.278	.234	.214	.161	.075	.063	.056	.046	.042	.038
31	.986	.944	.893	.768	.681	.631	.597	.492	.407	.389	.286	.242	.222	.167	.077	.065	.058	.048	.044	.040
32	.988	.954	.903	.776	.690	.641	.611	.500	.413	.395	.294	.250	.230	.173	.079	.067	.060	.050	.046	.042
33	.990	.964	.913	.784	.698	.651	.623	.508	.419	.401	.302	.258	.238	.179	.081	.069	.063	.052	.048	.044
34	.992	.972	.923	.792	.706	.661	.635	.516	.425	.407	.308	.266	.246	.185	.083	.071	.065	.054	.050	.046
35	.992	.978	.933	.800	.714	.671	.645	.524	.431	.413	.315	.274	.254	.192	.085	.073	.067	.056	.052	.048
36	.992	.984	.942	.808	.722	.681	.655	.530	.438	.419	.321	.280	.262	.198	.087	.075	.069	.058	.054	.050
37	.992	.986	.948	.817	.730	.690	.665	.536	.444	.425	.327	.286	.270	.204	.089	.077	.071	.060	.056	.052
38	.994	.988	.954	.825	.738	.698	.675	.542	.450	.431	.333	.292	.276	.210	.091	.079	.073	.063	.058	.054
39	.996	.992	.956	.831	.746	.706	.683	.548	.456	.438	.339	.298	.282	.216	.093	.081	.075	.065	.060	.056
40	.998	.994	.958	.837	.754	.714	.692	.554	.462	.444	.345	.304	.288	.220	.095	.083	.077	.067	.063	.058

TOTAL OBSERVATIONS 496

TABLE 5. 4. P(W ≥ W\*) I CONSECUTIVE LAUNCH OPPORTUNITIES IN J PERIODS (W\* = 25 M/SEC).  
BASED ON MAXIMUM WIND SPEEDS IN THE 10-15 KM LAYER OVER CAPE KENNEDY, FLORIDA.  
PERIOD OF RECORD JANUARY 1956 - DECEMBER 1963.

CAPE KENNEDY , FLORIDA MAY

SPEEDS GREATER THAN OR EQUAL TO 025 MPS

P ( I SUCCESSES IN J PERIODS )

	I																			
J	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
1	.520																			
2	.613	.425																		
3	.677	.508	.365																	
4	.716	.575	.458	.308																
5	.746	.617	.522	.409	.256															
6	.770	.655	.563	.460	.355	.216														
7	.794	.679	.597	.526	.425	.310	.181													
8	.821	.706	.617	.560	.476	.379	.274	.151												
9	.843	.734	.643	.577	.514	.427	.347	.242	.125											
10	.857	.768	.667	.603	.528	.468	.399	.310	.212	.105										
11	.873	.790	.702	.625	.550	.478	.446	.365	.274	.192	.085									
12	.887	.815	.728	.655	.573	.492	.456	.415	.325	.254	.167	.071								
13	.895	.841	.754	.679	.603	.506	.470	.425	.375	.300	.230	.147	.058							
14	.903	.863	.776	.710	.627	.526	.484	.440	.387	.351	.274	.206	.133	.046						
15	.911	.879	.800	.732	.661	.544	.500	.454	.399	.363	.329	.250	.183	.117	.036					
16	.919	.893	.821	.754	.688	.575	.516	.468	.411	.375	.341	.308	.224	.165	.097	.030				
17	.925	.907	.841	.770	.714	.599	.544	.484	.421	.384	.353	.323	.284	.202	.139	.083	.026			
18	.931	.915	.859	.794	.732	.627	.563	.512	.433	.393	.361	.337	.302	.262	.175	.119	.071	.022		
19	.938	.921	.873	.817	.756	.643	.591	.528	.460	.401	.367	.345	.319	.284	.234	.157	.103	.056	.020	
20	.944	.927	.885	.833	.776	.671	.601	.560	.474	.423	.373	.351	.329	.302	.258	.212	.143	.085	.046	.018
21	.948	.935	.897	.843	.796	.696	.621	.571	.508	.431	.397	.357	.335	.313	.278	.238	.194	.129	.067	.040
22	.952	.940	.913	.853	.802	.722	.643	.587	.520	.462	.403	.383	.341	.319	.288	.258	.222	.177	.109	.056
23	.956	.944	.921	.871	.819	.738	.673	.601	.538	.472	.429	.389	.369	.325	.294	.268	.244	.208	.151	.097
24	.960	.948	.929	.883	.837	.752	.692	.625	.552	.488	.440	.413	.375	.355	.300	.272	.256	.230	.188	.131
25	.964	.952	.938	.897	.849	.772	.708	.635	.579	.502	.454	.423	.397	.361	.333	.276	.258	.244	.216	.171
26	.968	.956	.946	.907	.867	.788	.728	.645	.589	.532	.462	.440	.407	.377	.339	.308	.260	.248	.232	.204
27	.972	.960	.950	.921	.881	.808	.742	.663	.597	.544	.490	.446	.425	.385	.355	.313	.290	.250	.238	.220
28	.976	.964	.954	.931	.895	.827	.762	.675	.613	.554	.504	.468	.431	.403	.365	.325	.292	.280	.240	.228
29	.980	.968	.958	.940	.907	.841	.786	.690	.625	.571	.518	.478	.452	.407	.385	.331	.302	.282	.270	.230
30	.984	.972	.962	.948	.917	.853	.806	.710	.637	.583	.536	.492	.458	.425	.391	.349	.306	.292	.272	.260
31	.986	.978	.966	.956	.927	.865	.823	.728	.657	.595	.548	.512	.466	.431	.407	.355	.321	.296	.282	.262
32	.988	.982	.972	.960	.940	.879	.837	.748	.675	.611	.553	.528	.480	.438	.415	.371	.325	.308	.286	.272
33	.990	.984	.978	.966	.948	.893	.855	.762	.694	.631	.571	.540	.492	.448	.421	.383	.337	.313	.296	.276
34	.992	.986	.980	.974	.958	.905	.869	.782	.706	.651	.589	.550	.502	.458	.427	.391	.349	.323	.300	.284
35	.992	.990	.982	.976	.968	.923	.881	.796	.724	.669	.603	.567	.510	.466	.435	.397	.355	.337	.308	.288
36	.992	.990	.988	.978	.970	.940	.903	.806	.742	.690	.617	.581	.522	.472	.442	.405	.361	.343	.325	.294
37	.992	.990	.988	.986	.972	.948	.921	.829	.754	.708	.637	.595	.534	.480	.446	.411	.371	.349	.331	.313
38	.994	.990	.988	.986	.982	.952	.933	.853	.772	.718	.659	.613	.548	.490	.450	.415	.381	.355	.337	.319
39	.996	.992	.988	.986	.982	.966	.940	.871	.794	.734	.675	.633	.567	.502	.454	.419	.387	.363	.343	.325
40	.998	.994	.990	.986	.982	.970	.958	.883	.815	.754	.696	.643	.587	.520	.458	.423	.393	.369	.347	.331

TOTAL OBSERVATIONS 496

TABLE 5. 4.b. P(W ≥ W\*) I LAUNCH OPPORTUNITIES IN J PERIODS (W\* = 25 M/SEC).  
 BASED ON MAXIMUM WIND SPEEDS IN THE 10-15 KM LAYER OVER CAPE KENNEDY, FLORIDA.

PERIOD OF RECORD JANUARY 1956 - DECEMBER 1963.



CAPE KENNEDY . FLORIDA MAY  
SPEEDS GREATER THAN OR EQUAL TO 030 MPS

PC ( I CONSECUTIVE SUCCESSES IN J PERIODS )

		I																			
J		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
1	.361																				
2	.433	.282																			
3	.484	.333	.228																		
4	.526	.383	.264	.188																	
5	.565	.421	.300	.214	.157																
6	.599	.456	.333	.240	.181	.129															
7	.627	.486	.359	.264	.206	.149	.107														
8	.649	.514	.383	.288	.228	.169	.125	.087													
9	.669	.540	.403	.308	.250	.188	.143	.103	.071												
10	.692	.563	.423	.329	.272	.206	.159	.119	.087	.054											
11	.714	.583	.442	.347	.290	.224	.175	.133	.103	.069	.040										
12	.734	.605	.458	.365	.308	.242	.190	.147	.117	.083	.054	.026									
13	.754	.627	.474	.379	.325	.258	.204	.159	.131	.095	.069	.038	.014								
14	.772	.647	.490	.395	.339	.274	.220	.171	.143	.107	.081	.050	.020	.008							
15	.788	.661	.506	.411	.355	.288	.232	.185	.155	.117	.093	.060	.026	.012	.004						
16	.802	.673	.520	.427	.371	.304	.244	.200	.169	.127	.103	.071	.030	.016	.008	.000					
17	.817	.683	.532	.442	.387	.321	.254	.210	.183	.139	.113	.079	.034	.018	.012	.000	.000				
18	.831	.692	.544	.456	.401	.337	.264	.220	.198	.151	.125	.087	.036	.020	.014	.000	.000	.000			
19	.843	.700	.556	.468	.415	.351	.274	.230	.208	.163	.137	.097	.038	.020	.016	.000	.000	.000	.000		
20	.855	.708	.567	.480	.429	.365	.282	.240	.218	.175	.149	.107	.042	.020	.016	.000	.000	.000	.000	.000	
21	.865	.716	.577	.492	.442	.379	.290	.248	.228	.183	.161	.117	.046	.022	.016	.000	.000	.000	.000	.000	
22	.875	.724	.587	.502	.454	.393	.298	.256	.236	.192	.173	.127	.050	.024	.016	.000	.000	.000	.000	.000	
23	.885	.732	.595	.512	.466	.405	.306	.264	.244	.200	.181	.137	.054	.026	.016	.000	.000	.000	.000	.000	
24	.895	.740	.603	.522	.476	.417	.315	.272	.252	.208	.190	.147	.058	.028	.016	.000	.000	.000	.000	.000	
25	.905	.748	.611	.530	.486	.429	.321	.280	.260	.216	.198	.155	.063	.030	.016	.000	.000	.000	.000	.000	
26	.913	.756	.619	.538	.496	.442	.327	.288	.268	.224	.206	.163	.067	.032	.016	.000	.000	.000	.000	.000	
27	.921	.764	.625	.546	.504	.454	.333	.296	.276	.232	.214	.171	.071	.034	.016	.000	.000	.000	.000	.000	
28	.929	.772	.631	.554	.512	.466	.339	.304	.284	.240	.222	.179	.075	.036	.016	.000	.000	.000	.000	.000	
29	.935	.780	.639	.563	.520	.476	.345	.313	.292	.248	.230	.188	.079	.038	.016	.000	.000	.000	.000	.000	
30	.942	.788	.647	.573	.528	.486	.351	.321	.300	.256	.238	.196	.083	.040	.016	.000	.000	.000	.000	.000	
31	.946	.796	.655	.583	.538	.496	.355	.329	.308	.264	.246	.204	.087	.042	.016	.000	.000	.000	.000	.000	
32	.952	.804	.663	.593	.548	.508	.359	.337	.317	.272	.254	.212	.091	.044	.016	.000	.000	.000	.000	.000	
33	.958	.813	.671	.603	.558	.520	.363	.343	.325	.280	.262	.220	.095	.046	.016	.000	.000	.000	.000	.000	
34	.962	.821	.679	.613	.569	.530	.367	.349	.333	.288	.270	.228	.099	.048	.016	.000	.000	.000	.000	.000	
35	.966	.827	.688	.623	.579	.540	.371	.355	.339	.296	.278	.234	.103	.050	.016	.000	.000	.000	.000	.000	
36	.970	.833	.696	.633	.589	.550	.375	.361	.345	.304	.286	.244	.107	.052	.016	.000	.000	.000	.000	.000	
37	.972	.839	.704	.643	.599	.560	.379	.365	.351	.313	.294	.252	.111	.054	.016	.000	.000	.000	.000	.000	
38	.976	.845	.712	.653	.609	.571	.383	.369	.357	.321	.302	.260	.115	.056	.016	.000	.000	.000	.000	.000	
39	.980	.851	.720	.663	.619	.581	.387	.373	.361	.329	.310	.268	.119	.058	.016	.000	.000	.000	.000	.000	
40	.984	.857	.730	.673	.629	.591	.391	.377	.365	.337	.319	.276	.123	.060	.016	.000	.000	.000	.000	.000	

TOTAL OBSERVATIONS 496

TABLE 5. 5.a. P(W ≥ W\*) I CONSECUTIVE LAUNCH OPPORTUNITIES IN J PERIODS (W\* = 30 M/SEC).  
BASED ON MAXIMUM WIND SPEEDS IN THE 10-15 KM LAYER OVER CAPE KENNEDY, FLORIDA.  
PERIOD OF RECORD JANUARY 1956 - DECEMBER 1963.

CAPE KENNEDY, FLORIDA MAY

SPEEDS GREATER THAN OR EQUAL TO 030 MPS

P ( I SUCCESSES IN J PERIODS )

		I																			
J		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
1	.361																				
2	.433	.282																			
3	.484	.355	.228																		
4	.526	.400	.292	.188																	
5	.565	.446	.335	.244	.157																
6	.599	.480	.371	.284	.210	.129															
7	.627	.516	.397	.321	.244	.181	.107														
8	.649	.548	.429	.345	.282	.208	.159	.087													
9	.669	.571	.464	.375	.306	.242	.181	.139	.071												
10	.692	.589	.488	.409	.335	.262	.212	.159	.127	.054											
11	.714	.607	.510	.427	.373	.286	.230	.185	.145	.113	.040										
12	.734	.627	.532	.446	.391	.325	.248	.202	.169	.129	.103	.026									
13	.754	.643	.552	.470	.407	.347	.284	.218	.181	.153	.117	.091	.014								
14	.772	.659	.567	.492	.429	.365	.308	.254	.192	.163	.141	.103	.075	.008							
15	.788	.675	.579	.510	.450	.389	.325	.284	.220	.171	.151	.125	.089	.060	.004						
16	.802	.690	.593	.526	.470	.411	.345	.304	.248	.190	.159	.135	.109	.073	.052	.000					
17	.817	.700	.607	.544	.486	.438	.359	.325	.270	.214	.175	.141	.121	.089	.065	.040	.000				
18	.831	.710	.615	.563	.506	.454	.381	.339	.292	.230	.202	.153	.127	.101	.079	.048	.036	.000			
19	.843	.722	.621	.575	.528	.474	.391	.363	.306	.250	.216	.177	.139	.105	.093	.060	.042	.032	.000		
20	.855	.732	.629	.583	.542	.500	.405	.373	.333	.260	.236	.190	.163	.115	.097	.075	.050	.038	.028	.000	
21	.865	.744	.637	.589	.552	.518	.431	.385	.347	.280	.244	.210	.175	.137	.107	.079	.065	.044	.034	.024	
22	.875	.754	.647	.595	.558	.532	.454	.407	.361	.294	.260	.218	.196	.149	.125	.089	.067	.060	.038	.030	
23	.885	.764	.657	.601	.565	.542	.466	.435	.379	.313	.270	.230	.206	.169	.133	.109	.073	.063	.054	.034	
24	.895	.774	.667	.609	.571	.548	.478	.450	.411	.320	.286	.238	.218	.181	.151	.117	.091	.067	.056	.050	
25	.905	.784	.677	.615	.579	.554	.484	.464	.427	.365	.300	.250	.220	.194	.163	.135	.099	.083	.058	.052	
26	.913	.796	.688	.621	.585	.563	.490	.470	.444	.383	.339	.258	.238	.202	.173	.151	.115	.091	.071	.054	
27	.921	.806	.700	.629	.591	.569	.498	.476	.452	.399	.359	.294	.244	.212	.177	.161	.133	.105	.077	.065	
28	.929	.815	.712	.639	.599	.575	.504	.484	.458	.407	.383	.308	.282	.224	.181	.165	.143	.125	.089	.069	
29	.935	.825	.720	.651	.609	.583	.510	.490	.466	.411	.393	.335	.294	.256	.190	.169	.147	.135	.107	.081	
30	.942	.835	.728	.661	.621	.591	.518	.496	.472	.417	.399	.349	.317	.268	.216	.177	.151	.139	.115	.103	
31	.946	.847	.736	.669	.633	.603	.524	.504	.478	.421	.407	.357	.333	.286	.226	.202	.159	.143	.119	.109	
32	.952	.857	.746	.677	.645	.613	.534	.510	.486	.425	.411	.369	.341	.302	.240	.214	.181	.151	.123	.113	
33	.958	.865	.756	.688	.657	.623	.542	.518	.492	.431	.415	.377	.353	.313	.250	.226	.196	.171	.131	.117	
34	.962	.875	.762	.700	.669	.635	.550	.526	.498	.435	.419	.385	.361	.325	.258	.234	.206	.188	.149	.125	
35	.966	.883	.770	.708	.681	.649	.558	.534	.504	.440	.423	.393	.369	.335	.266	.242	.214	.196	.167	.141	
36	.970	.891	.776	.718	.690	.661	.573	.542	.510	.444	.427	.401	.377	.343	.274	.250	.222	.204	.177	.159	
37	.972	.901	.782	.726	.700	.669	.587	.554	.516	.448	.431	.407	.387	.351	.280	.258	.230	.212	.185	.169	
38	.976	.907	.792	.734	.708	.679	.597	.567	.526	.452	.435	.413	.395	.361	.286	.264	.238	.220	.196	.177	
39	.980	.913	.798	.748	.716	.688	.609	.577	.534	.460	.440	.419	.401	.371	.296	.270	.244	.228	.206	.185	
40	.984	.919	.806	.754	.732	.696	.621	.587	.542	.466	.446	.423	.407	.377	.308	.278	.250	.234	.214	.196	

TOTAL OBSERVATIONS 496

TABLE 5. 5.b. P(W ≥ W\*) I LAUNCH OPPORTUNITIES IN J PERIODS (W\* = 30 M/SEC).  
 BASED ON MAXIMUM WIND SPEEDS IN THE 10-15 KM LAYER OVER CAPE KENNEDY, FLORIDA.

CAPE KENNEDY, FLORIDA MAY

SPEEDS GREATER THAN OR EQUAL TO 035 MPS

P ( I CONSECUTIVE SUCCESSES IN J PERIODS )

J	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
1	.274																			
2	.335	.210																		
3	.385	.248	.167																	
4	.425	.236	.196	.135																
5	.464	.317	.224	.159	.107															
6	.498	.345	.248	.183	.127	.083														
7	.524	.373	.270	.206	.147	.101	.063													
8	.544	.397	.290	.228	.165	.119	.077	.046												
9	.563	.415	.308	.248	.183	.135	.091	.058	.034											
10	.581	.431	.325	.264	.202	.151	.103	.071	.044	.024										
11	.599	.448	.337	.278	.218	.167	.115	.081	.054	.037	.016									
12	.615	.466	.347	.292	.230	.181	.127	.091	.063	.040	.024	.008								
13	.631	.480	.359	.304	.242	.196	.137	.101	.071	.046	.032	.012	.004							
14	.643	.496	.371	.317	.254	.208	.147	.109	.079	.052	.038	.016	.006	.002						
15	.653	.510	.387	.329	.268	.220	.157	.117	.085	.058	.044	.020	.008	.004	.000					
16	.659	.524	.401	.343	.280	.232	.165	.125	.091	.063	.050	.024	.010	.006	.000	.000				
17	.665	.538	.415	.355	.294	.244	.173	.133	.097	.067	.054	.028	.012	.008	.000	.000	.000			
18	.671	.550	.429	.367	.306	.256	.181	.139	.103	.071	.058	.030	.014	.010	.000	.000	.000	.000		
19	.677	.560	.444	.379	.319	.266	.190	.145	.109	.075	.063	.032	.014	.012	.000	.000	.000	.000	.000	
20	.683	.571	.456	.391	.331	.276	.194	.151	.113	.079	.067	.034	.014	.012	.000	.000	.000	.000	.000	.000
21	.690	.579	.468	.403	.343	.286	.198	.155	.117	.083	.071	.036	.014	.012	.000	.000	.000	.000	.000	.000
22	.696	.585	.480	.415	.355	.296	.202	.157	.119	.085	.075	.038	.014	.012	.000	.000	.000	.000	.000	.000
23	.702	.591	.490	.427	.367	.306	.206	.159	.121	.087	.079	.040	.014	.012	.000	.000	.000	.000	.000	.000
24	.708	.597	.500	.440	.379	.317	.210	.161	.123	.089	.081	.042	.014	.012	.000	.000	.000	.000	.000	.000
25	.714	.603	.510	.450	.391	.327	.214	.163	.125	.091	.083	.044	.014	.012	.000	.000	.000	.000	.000	.000
26	.720	.609	.520	.460	.403	.337	.218	.165	.127	.093	.085	.046	.014	.012	.000	.000	.000	.000	.000	.000
27	.726	.615	.530	.470	.413	.347	.222	.167	.129	.095	.087	.048	.014	.012	.000	.000	.000	.000	.000	.000
28	.734	.621	.540	.480	.423	.357	.226	.169	.131	.097	.089	.050	.014	.012	.000	.000	.000	.000	.000	.000
29	.742	.627	.550	.490	.433	.365	.230	.171	.133	.099	.091	.052	.014	.012	.000	.000	.000	.000	.000	.000
30	.750	.633	.560	.500	.444	.373	.234	.173	.135	.101	.093	.054	.014	.012	.000	.000	.000	.000	.000	.000
31	.758	.639	.571	.510	.454	.381	.236	.175	.137	.103	.095	.056	.014	.012	.000	.000	.000	.000	.000	.000
32	.766	.645	.581	.518	.464	.389	.238	.177	.139	.105	.097	.058	.014	.012	.000	.000	.000	.000	.000	.000
33	.772	.651	.591	.526	.472	.397	.240	.177	.141	.107	.099	.060	.014	.012	.000	.000	.000	.000	.000	.000
34	.778	.657	.599	.534	.480	.403	.242	.177	.143	.109	.101	.063	.014	.012	.000	.000	.000	.000	.000	.000
35	.784	.663	.607	.542	.488	.409	.244	.177	.143	.111	.103	.065	.014	.012	.000	.000	.000	.000	.000	.000
36	.790	.669	.615	.548	.496	.415	.246	.177	.143	.113	.105	.067	.014	.012	.000	.000	.000	.000	.000	.000
37	.794	.675	.623	.554	.504	.421	.248	.177	.143	.115	.107	.069	.014	.012	.000	.000	.000	.000	.000	.000
38	.798	.681	.631	.560	.510	.427	.250	.177	.143	.117	.109	.071	.014	.012	.000	.000	.000	.000	.000	.000
39	.804	.688	.639	.567	.516	.433	.252	.177	.143	.119	.111	.073	.014	.012	.000	.000	.000	.000	.000	.000
40	.810	.694	.647	.573	.522	.438	.254	.177	.143	.121	.113	.075	.014	.012	.000	.000	.000	.000	.000	.000

TOTAL OBSERVATIONS 496

TABLE 5. 6. P(W ≥ W\*) I CONSECUTIVE LAUNCH OPPORTUNITIES IN J PERIODS (W\* = 35 M/SEC).  
 BASED ON MAXIMUM WIND SPEEDS IN THE 10-15 KM LAYER OVER CAPE KENNEDY, FLORIDA.

PERIOD OF RECORD JANUARY 1956 - DECEMBER 1963.

CAPE KENNEDY, FLORIDA MAY

SPEEDS GREATER THAN OR EQUAL TO 035 MPS

P ( I SUCCESSES IN J PERIODS )

	I																			
J	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
1	.274																			
2	.335	.210																		
3	.385	.254	.167																	
4	.425	.298	.210	.135																
5	.464	.331	.242	.175	.107															
6	.498	.365	.248	.206	.143	.083														
7	.524	.397	.298	.228	.173	.117	.063													
8	.544	.423	.335	.250	.194	.147	.091	.046												
9	.563	.444	.359	.284	.214	.165	.121	.071	.034											
10	.581	.462	.379	.306	.244	.185	.137	.103	.052	.024										
11	.599	.482	.399	.325	.264	.212	.157	.119	.083	.038	.016									
12	.615	.502	.417	.347	.276	.232	.177	.141	.095	.069	.028	.008								
13	.631	.520	.440	.365	.294	.246	.194	.159	.117	.079	.056	.016	.004							
14	.643	.538	.460	.389	.308	.264	.206	.173	.131	.103	.060	.044	.008	.002						
15	.653	.554	.480	.411	.331	.278	.222	.185	.143	.113	.081	.050	.034	.004	.000					
16	.659	.573	.498	.433	.351	.298	.234	.200	.157	.121	.085	.071	.040	.026	.000	.000				
17	.665	.583	.522	.454	.373	.317	.250	.210	.173	.131	.087	.075	.060	.030	.018	.000	.000			
18	.671	.593	.534	.484	.393	.335	.266	.222	.185	.143	.091	.077	.065	.050	.020	.016	.000	.000		
19	.677	.601	.548	.500	.427	.349	.280	.236	.196	.155	.095	.081	.067	.056	.036	.018	.014	.000	.000	
20	.683	.609	.556	.522	.446	.379	.290	.248	.210	.164	.101	.083	.071	.060	.040	.032	.016	.012	.000	.000
21	.690	.617	.563	.536	.472	.397	.317	.258	.220	.179	.107	.085	.073	.065	.044	.036	.028	.014	.010	.000
22	.696	.623	.571	.546	.490	.427	.331	.278	.230	.190	.115	.089	.075	.067	.048	.040	.032	.024	.012	.008
23	.702	.629	.577	.556	.506	.446	.361	.290	.246	.202	.119	.095	.079	.069	.052	.042	.036	.028	.020	.010
24	.708	.635	.583	.563	.522	.464	.377	.321	.256	.218	.125	.099	.083	.073	.056	.044	.038	.032	.024	.016
25	.714	.641	.589	.569	.532	.484	.393	.335	.286	.226	.135	.103	.089	.075	.063	.046	.040	.034	.028	.020
26	.720	.647	.595	.575	.540	.498	.413	.349	.300	.254	.141	.111	.091	.081	.067	.050	.042	.036	.030	.024
27	.726	.653	.601	.581	.546	.510	.429	.367	.313	.268	.167	.119	.093	.083	.075	.052	.046	.038	.032	.026
28	.734	.659	.607	.587	.552	.520	.442	.383	.329	.276	.181	.147	.095	.085	.077	.058	.048	.042	.034	.028
29	.742	.665	.613	.593	.558	.528	.454	.393	.343	.290	.188	.161	.119	.087	.079	.060	.054	.044	.038	.030
30	.750	.671	.619	.599	.565	.534	.464	.405	.351	.304	.200	.169	.131	.107	.081	.063	.056	.050	.040	.034
31	.758	.679	.625	.605	.571	.540	.474	.411	.363	.313	.214	.181	.141	.113	.099	.065	.058	.052	.046	.036
32	.766	.688	.631	.611	.577	.546	.482	.419	.367	.327	.226	.196	.151	.121	.103	.081	.060	.054	.048	.042
33	.772	.698	.637	.617	.583	.552	.490	.425	.373	.331	.244	.208	.163	.127	.111	.085	.075	.056	.050	.044
34	.778	.706	.645	.623	.589	.558	.498	.431	.377	.337	.250	.224	.175	.135	.115	.095	.079	.069	.052	.046
35	.784	.714	.651	.631	.595	.565	.506	.438	.381	.341	.258	.230	.194	.147	.119	.099	.091	.073	.063	.048
36	.790	.722	.657	.637	.603	.571	.514	.444	.385	.345	.264	.238	.200	.167	.129	.103	.093	.087	.067	.056
37	.796	.737	.663	.643	.609	.579	.522	.450	.389	.349	.270	.244	.206	.173	.147	.113	.095	.089	.083	.060
38	.798	.740	.671	.649	.615	.587	.530	.456	.393	.353	.276	.250	.212	.181	.153	.131	.101	.091	.085	.079
39	.804	.748	.677	.657	.621	.595	.538	.462	.397	.357	.282	.256	.218	.188	.161	.139	.113	.097	.087	.081
40	.810	.754	.685	.663	.629	.603	.546	.468	.401	.361	.286	.262	.224	.194	.167	.149	.117	.107	.093	.083

TOTAL OBSERVATIONS 496

TABLE 5. 6.b. P(W ≥ W<sub>0</sub>) I LAUNCH OPPORTUNITIES IN J PERIODS (W<sub>0</sub> = 35 M/SEC).  
 BASED ON MAXIMUM WIND SPEEDS IN THE 10-15 KM LAYER OVER CAPE KENNEDY, FLORIDA.  
 PERIOD OF RECORD JANUARY 1956 - DECEMBER 1963.

CAPF KENNEDY , FLORIDA MAY

SPEEDS GREATER THAN OR EQUAL TO 040 MPS

PC ( I CONSECUTIVE SUCCESSES IN J PERIODS )

	I																			
J	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
1	.192																			
2	.244	.135																		
3	.284	.165	.103																	
4	.325	.196	.121	.083																
5	.357	.222	.139	.099	.067															
6	.387	.248	.157	.115	.081	.052														
7	.411	.270	.175	.131	.095	.067	.038													
8	.438	.290	.192	.147	.109	.081	.050	.026												
9	.454	.308	.206	.161	.123	.095	.063	.034	.018											
10	.472	.325	.220	.173	.135	.109	.075	.042	.022	.014										
11	.486	.339	.230	.185	.145	.121	.087	.050	.026	.018	.010									
12	.502	.353	.240	.196	.155	.131	.097	.058	.030	.022	.014	.006								
13	.516	.367	.248	.204	.165	.141	.105	.065	.034	.026	.018	.008	.004							
14	.530	.383	.258	.212	.175	.151	.113	.069	.038	.030	.022	.010	.006	.002						
15	.542	.399	.268	.220	.183	.161	.121	.073	.040	.034	.026	.012	.008	.004	.000					
16	.554	.415	.278	.228	.192	.171	.129	.077	.042	.036	.030	.014	.010	.006	.000	.000				
17	.567	.431	.288	.236	.198	.179	.137	.081	.044	.038	.032	.016	.012	.008	.000	.000	.000			
18	.575	.446	.298	.244	.204	.188	.145	.085	.046	.040	.034	.016	.014	.010	.000	.000	.000	.000		
19	.583	.460	.306	.252	.210	.194	.151	.089	.048	.042	.036	.016	.014	.012	.000	.000	.000	.000	.000	
20	.589	.474	.315	.258	.216	.200	.157	.093	.050	.044	.038	.016	.014	.012	.000	.000	.000	.000	.000	.000
21	.595	.486	.323	.264	.220	.206	.161	.097	.052	.046	.040	.016	.014	.012	.000	.000	.000	.000	.000	.000
22	.601	.496	.331	.270	.224	.210	.165	.101	.054	.048	.042	.016	.014	.012	.000	.000	.000	.000	.000	.000
23	.607	.504	.339	.276	.228	.214	.169	.103	.056	.050	.044	.016	.014	.012	.000	.000	.000	.000	.000	.000
24	.613	.512	.345	.282	.232	.218	.173	.105	.058	.052	.046	.016	.014	.012	.000	.000	.000	.000	.000	.000
25	.619	.520	.351	.288	.236	.222	.177	.107	.060	.054	.048	.016	.014	.012	.000	.000	.000	.000	.000	.000
26	.625	.528	.357	.292	.240	.226	.181	.109	.063	.056	.050	.016	.014	.012	.000	.000	.000	.000	.000	.000
27	.631	.536	.363	.296	.244	.230	.185	.111	.065	.058	.052	.016	.014	.012	.000	.000	.000	.000	.000	.000
28	.637	.544	.369	.300	.246	.234	.190	.113	.067	.060	.054	.016	.014	.012	.000	.000	.000	.000	.000	.000
29	.643	.550	.375	.304	.248	.238	.194	.115	.069	.063	.056	.016	.014	.012	.000	.000	.000	.000	.000	.000
30	.649	.556	.381	.308	.250	.240	.198	.117	.071	.065	.058	.016	.014	.012	.000	.000	.000	.000	.000	.000
31	.657	.563	.387	.313	.252	.242	.202	.119	.073	.067	.060	.016	.014	.012	.000	.000	.000	.000	.000	.000
32	.665	.569	.393	.317	.254	.244	.206	.121	.075	.069	.063	.016	.014	.012	.000	.000	.000	.000	.000	.000
33	.673	.575	.399	.321	.256	.246	.210	.123	.077	.071	.065	.016	.014	.012	.000	.000	.000	.000	.000	.000
34	.681	.581	.403	.325	.258	.248	.214	.125	.079	.073	.067	.016	.014	.012	.000	.000	.000	.000	.000	.000
35	.690	.587	.407	.329	.260	.250	.218	.127	.081	.075	.069	.016	.014	.012	.000	.000	.000	.000	.000	.000
36	.698	.593	.411	.331	.262	.252	.222	.129	.083	.077	.071	.016	.014	.012	.000	.000	.000	.000	.000	.000
37	.706	.599	.415	.333	.264	.254	.226	.131	.085	.079	.073	.016	.014	.012	.000	.000	.000	.000	.000	.000
38	.714	.605	.419	.335	.264	.256	.230	.133	.087	.081	.075	.016	.014	.012	.000	.000	.000	.000	.000	.000
39	.722	.611	.423	.337	.264	.258	.234	.135	.089	.083	.077	.016	.014	.012	.000	.000	.000	.000	.000	.000
40	.730	.617	.427	.339	.264	.258	.238	.137	.091	.085	.079	.016	.014	.012	.000	.000	.000	.000	.000	.000

TOTAL OBSERVATIONS 496

TABLE 5. 7. a.  $P(W \geq W^*)$  I CONSECUTIVE LAUNCH OPPORTUNITIES IN J PERIODS ( $W^* = 40$  M/SEC).  
 BASED ON MAXIMUM WIND SPEEDS IN THE 10-15 KM LAYER OVER CAPE KENNEDY, FLORIDA.  
 PERIOD OF RECORD JANUARY 1956 - DECEMBER 1963.

CAPE KENNEDY, FLORIDA MAY  
SPEEDS GREATER THAN OR EQUAL TO 040 MPS

P ( I SUCCESSES IN J PERIODS )

J	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
1	.192																			
2	.244	.135																		
3	.284	.175	.103																	
4	.325	.204	.131	.083																
5	.357	.238	.149	.107	.067															
6	.387	.262	.177	.123	.087	.052														
7	.411	.284	.198	.149	.101	.071	.038													
8	.438	.302	.214	.171	.123	.085	.054	.026												
9	.454	.327	.230	.185	.145	.105	.069	.036	.018											
10	.472	.341	.250	.202	.157	.127	.089	.046	.022	.014										
11	.486	.363	.262	.218	.173	.137	.113	.063	.026	.018	.010									
12	.502	.379	.278	.228	.188	.153	.123	.085	.036	.022	.014	.006								
13	.516	.399	.292	.240	.198	.163	.141	.091	.058	.028	.018	.008	.004							
14	.530	.417	.310	.250	.212	.171	.149	.107	.067	.046	.024	.010	.006	.002						
15	.542	.433	.329	.264	.222	.183	.155	.111	.087	.050	.042	.014	.008	.004	.000					
16	.554	.450	.345	.280	.234	.192	.165	.115	.091	.069	.046	.032	.010	.006	.000	.000				
17	.567	.464	.361	.296	.246	.202	.171	.123	.093	.073	.063	.036	.021	.008	.000	.000	.000			
18	.575	.482	.375	.313	.258	.212	.177	.127	.099	.077	.067	.050	.030	.022	.000	.000	.000	.000		
19	.583	.496	.393	.325	.272	.222	.183	.131	.103	.083	.071	.054	.042	.026	.010	.000	.000	.000	.000	
20	.589	.510	.409	.341	.280	.234	.192	.135	.107	.089	.075	.058	.046	.036	.012	.008	.000	.000	.000	.000
21	.595	.518	.429	.355	.292	.242	.200	.139	.111	.093	.079	.063	.050	.040	.020	.010	.006	.000	.000	.000
22	.601	.526	.438	.379	.300	.254	.206	.143	.113	.099	.081	.067	.054	.044	.024	.016	.008	.004	.000	.000
23	.607	.534	.446	.389	.321	.262	.216	.147	.115	.103	.085	.069	.058	.048	.028	.020	.012	.006	.002	.000
24	.613	.542	.454	.399	.329	.282	.222	.155	.117	.107	.089	.071	.060	.052	.032	.024	.016	.008	.004	.000
25	.619	.550	.460	.411	.337	.288	.242	.159	.123	.111	.093	.073	.063	.054	.036	.028	.020	.010	.006	.000
26	.625	.556	.468	.423	.345	.294	.248	.177	.127	.115	.099	.075	.065	.056	.038	.032	.024	.012	.008	.000
27	.631	.563	.472	.438	.353	.302	.252	.185	.143	.119	.101	.081	.067	.058	.040	.034	.028	.014	.010	.000
28	.637	.569	.476	.448	.365	.308	.258	.190	.153	.133	.103	.083	.073	.060	.042	.036	.030	.016	.012	.000
29	.643	.575	.480	.454	.373	.319	.264	.194	.159	.143	.113	.085	.075	.067	.044	.038	.032	.018	.014	.000
30	.649	.581	.484	.462	.381	.327	.272	.198	.165	.149	.123	.091	.077	.069	.050	.040	.034	.020	.016	.000
31	.657	.587	.488	.468	.385	.339	.280	.202	.171	.155	.129	.099	.081	.071	.052	.044	.036	.022	.018	.000
32	.665	.593	.492	.474	.389	.345	.294	.206	.175	.163	.133	.103	.089	.073	.054	.048	.042	.024	.020	.000
33	.673	.599	.496	.478	.395	.349	.302	.218	.179	.167	.143	.109	.093	.079	.056	.050	.044	.030	.022	.000
34	.681	.605	.500	.482	.401	.353	.306	.224	.194	.171	.145	.121	.097	.085	.058	.052	.044	.034	.026	.000
35	.690	.611	.504	.486	.405	.359	.310	.230	.198	.188	.147	.125	.109	.089	.063	.054	.048	.038	.030	.000
36	.698	.617	.508	.490	.409	.365	.315	.236	.202	.190	.163	.129	.111	.103	.067	.056	.050	.042	.034	.000
37	.706	.623	.512	.494	.413	.369	.319	.242	.206	.192	.165	.145	.115	.105	.083	.058	.052	.044	.038	.000
38	.714	.629	.516	.498	.417	.373	.323	.248	.212	.194	.167	.149	.129	.109	.087	.073	.054	.048	.042	.000
39	.722	.635	.520	.502	.421	.377	.327	.254	.218	.196	.169	.153	.133	.121	.091	.077	.069	.050	.044	.000
40	.730	.641	.524	.506	.425	.381	.331	.260	.224	.198	.171	.157	.137	.125	.101	.081	.073	.065	.046	.000

TOTAL OBSERVATIONS 496

TABLE 5. 7.b. P(W ≥ W<sub>0</sub>) I LAUNCH OPPORTUNITIES IN J PERIODS (W<sub>0</sub> = 40 M/SEC).  
BASED ON MAXIMUM WIND SPEEDS IN THE 10-15 KM LAYER OVER CAPE KENNEDY, FLORIDA.  
PERIOD OF RECORD JANUARY 1956 - DECEMBER 1965.

CAPE KENNEDY - FLORIDA MAY

SPEEDS GREATER THAN OR EQUAL TO 045 MPS

PC ( I CONSECUTIVE SUCCESSES IN J PERIODS )

J	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
1	.107																			
2	.151	.060																		
3	.190	.077	.044																	
4	.220	.093	.056	.032																
5	.250	.109	.069	.038	.026															
6	.276	.123	.081	.044	.032	.020														
7	.294	.135	.093	.050	.038	.026	.014													
8	.308	.147	.103	.056	.044	.032	.018	.010												
9	.323	.157	.113	.060	.050	.038	.022	.012	.008											
10	.337	.165	.121	.065	.054	.044	.026	.014	.010	.006										
11	.349	.173	.129	.067	.058	.048	.030	.016	.012	.008	.004									
12	.361	.181	.137	.069	.060	.052	.034	.018	.014	.010	.006	.002								
13	.377	.190	.145	.071	.063	.054	.038	.020	.016	.012	.008	.004	.000							
14	.393	.200	.153	.073	.065	.056	.040	.022	.018	.014	.010	.006	.000	.000						
15	.409	.210	.161	.075	.067	.058	.042	.022	.020	.012	.008	.000	.000	.000	.000					
16	.425	.220	.167	.077	.069	.060	.044	.022	.020	.018	.014	.010	.000	.000	.000	.000				
17	.440	.230	.173	.079	.071	.063	.046	.022	.020	.018	.016	.012	.000	.000	.000	.000	.000			
18	.454	.238	.179	.079	.073	.065	.048	.022	.020	.018	.016	.014	.000	.000	.000	.000	.000	.000		
19	.468	.246	.183	.079	.075	.067	.050	.022	.020	.018	.016	.014	.000	.000	.000	.000	.000	.000	.000	
20	.480	.254	.188	.079	.075	.069	.052	.022	.020	.018	.016	.014	.000	.000	.000	.000	.000	.000	.000	.000
21	.488	.262	.192	.079	.075	.071	.054	.022	.020	.018	.016	.014	.000	.000	.000	.000	.000	.000	.000	.000
22	.496	.270	.196	.079	.075	.071	.054	.022	.020	.018	.016	.014	.000	.000	.000	.000	.000	.000	.000	.000
23	.502	.278	.200	.079	.075	.071	.058	.022	.020	.018	.016	.014	.000	.000	.000	.000	.000	.000	.000	.000
24	.508	.286	.204	.079	.075	.071	.060	.022	.020	.018	.016	.014	.000	.000	.000	.000	.000	.000	.000	.000
25	.514	.294	.208	.079	.075	.071	.063	.022	.020	.018	.016	.014	.000	.000	.000	.000	.000	.000	.000	.000
26	.520	.302	.212	.079	.075	.071	.065	.022	.020	.018	.016	.014	.000	.000	.000	.000	.000	.000	.000	.000
27	.526	.310	.216	.079	.075	.071	.067	.022	.020	.018	.016	.014	.000	.000	.000	.000	.000	.000	.000	.000
28	.530	.319	.220	.079	.075	.071	.067	.022	.020	.018	.016	.014	.000	.000	.000	.000	.000	.000	.000	.000
29	.534	.327	.224	.079	.075	.071	.067	.022	.020	.018	.016	.014	.000	.000	.000	.000	.000	.000	.000	.000
30	.538	.333	.228	.079	.075	.071	.067	.022	.020	.018	.016	.014	.000	.000	.000	.000	.000	.000	.000	.000
31	.542	.339	.232	.079	.075	.071	.067	.022	.020	.018	.016	.014	.000	.000	.000	.000	.000	.000	.000	.000
32	.546	.343	.236	.079	.075	.071	.067	.022	.020	.018	.016	.014	.000	.000	.000	.000	.000	.000	.000	.000
33	.550	.347	.240	.079	.075	.071	.067	.022	.020	.018	.016	.014	.000	.000	.000	.000	.000	.000	.000	.000
34	.554	.351	.244	.079	.075	.071	.067	.022	.020	.018	.016	.014	.000	.000	.000	.000	.000	.000	.000	.000
35	.558	.355	.248	.079	.075	.071	.067	.022	.020	.018	.016	.014	.000	.000	.000	.000	.000	.000	.000	.000
36	.563	.359	.252	.079	.075	.071	.067	.022	.020	.018	.016	.014	.000	.000	.000	.000	.000	.000	.000	.000
37	.567	.363	.256	.079	.075	.071	.067	.022	.020	.018	.016	.014	.000	.000	.000	.000	.000	.000	.000	.000
38	.571	.367	.258	.079	.075	.071	.067	.022	.020	.018	.016	.014	.000	.000	.000	.000	.000	.000	.000	.000
39	.575	.371	.260	.079	.075	.071	.067	.022	.020	.018	.016	.014	.000	.000	.000	.000	.000	.000	.000	.000
40	.579	.375	.260	.079	.075	.071	.067	.022	.020	.018	.016	.014	.000	.000	.000	.000	.000	.000	.000	.000

TOTAL OBSERVATIONS 496

TABLE 8. S.E. P(N ≥ M) I CONSECUTIVE LAUNCH OPPORTUNITIES IN J PERIODS (V<sub>0</sub> = 45 M/SEC).  
 BASED ON MAXIMUM WIND SPEEDS IN THE 10-15 KM LAYER OVER CAPE KENNEDY, FLORIDA.  
 PERIOD OF RECORD JANUARY 1956 - DECEMBER 1963.

CAPE KENNEDY, FLORIDA MAY  
SPEEDS GREATER THAN OR EQUAL TO 045 MPS

P (I SUCCESSSES IN J PERIODS)

	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
1	.107																			
2	.151	.060																		
3	.190	.081	.044																	
4	.220	.105	.060	.032																
5	.250	.123	.079	.040	.026															
6	.276	.139	.095	.052	.032	.020														
7	.294	.157	.111	.065	.040	.026	.014													
8	.308	.173	.127	.079	.048	.032	.018	.010												
9	.323	.183	.143	.093	.058	.038	.022	.012	.008											
10	.337	.194	.153	.109	.067	.046	.026	.014	.010	.004										
11	.349	.206	.161	.123	.075	.052	.032	.016	.012	.008	.004									
12	.361	.214	.173	.135	.083	.056	.038	.020	.014	.010	.006	.002								
13	.377	.222	.179	.153	.089	.060	.044	.024	.016	.012	.008	.004	.000							
14	.393	.234	.185	.161	.105	.065	.048	.028	.018	.014	.010	.006	.000	.000						
15	.409	.246	.192	.169	.109	.081	.052	.030	.020	.014	.012	.008	.000	.000	.000					
16	.425	.258	.200	.175	.115	.083	.071	.032	.020	.018	.014	.010	.000	.000	.000	.000				
17	.440	.270	.208	.181	.119	.087	.073	.048	.020	.018	.016	.012	.000	.000	.000	.000	.000			
18	.454	.280	.216	.188	.123	.091	.075	.052	.032	.018	.016	.014	.000	.000	.000	.000	.000	.000		
19	.468	.290	.222	.194	.127	.093	.079	.056	.034	.028	.016	.014	.000	.000	.000	.000	.000	.000	.000	
20	.480	.302	.228	.200	.131	.095	.083	.060	.036	.030	.024	.014	.000	.000	.000	.000	.000	.000	.000	.000
21	.488	.315	.236	.204	.135	.097	.087	.065	.038	.032	.026	.020	.000	.000	.000	.000	.000	.000	.000	.000
22	.496	.327	.244	.208	.139	.099	.089	.067	.042	.034	.028	.022	.004	.000	.000	.000	.000	.000	.000	.000
23	.502	.337	.254	.212	.143	.101	.091	.069	.044	.036	.030	.024	.006	.002	.000	.000	.000	.000	.000	.000
24	.508	.346	.262	.220	.147	.103	.093	.071	.046	.036	.032	.026	.008	.004	.000	.000	.000	.000	.000	.000
25	.514	.353	.270	.224	.155	.105	.095	.073	.048	.036	.032	.028	.010	.006	.000	.000	.000	.000	.000	.000
26	.520	.361	.274	.232	.161	.109	.097	.075	.050	.036	.032	.028	.012	.008	.000	.000	.000	.000	.000	.000
27	.526	.369	.278	.236	.171	.113	.099	.077	.052	.036	.032	.028	.012	.010	.000	.000	.000	.000	.000	.000
28	.530	.379	.282	.238	.181	.119	.101	.079	.052	.038	.032	.028	.012	.010	.000	.000	.000	.000	.000	.000
29	.534	.389	.286	.240	.188	.129	.103	.081	.052	.038	.034	.028	.012	.010	.000	.000	.000	.000	.000	.000
30	.538	.397	.292	.242	.194	.135	.109	.083	.052	.038	.034	.030	.012	.010	.000	.000	.000	.000	.000	.000
31	.542	.405	.294	.248	.200	.141	.113	.087	.052	.038	.034	.030	.014	.010	.000	.000	.000	.000	.000	.000
32	.546	.413	.296	.250	.210	.147	.117	.091	.052	.038	.034	.030	.014	.012	.000	.000	.000	.000	.000	.000
33	.550	.421	.298	.252	.216	.157	.121	.095	.052	.038	.034	.030	.014	.012	.002	.000	.000	.000	.000	.000
34	.554	.427	.302	.252	.222	.165	.129	.099	.052	.038	.034	.030	.014	.012	.004	.000	.000	.000	.000	.000
35	.558	.433	.306	.252	.224	.175	.135	.107	.052	.038	.034	.030	.014	.012	.006	.000	.000	.000	.000	.000
36	.563	.440	.310	.252	.226	.177	.147	.113	.056	.038	.034	.030	.014	.012	.008	.000	.000	.000	.000	.000
37	.567	.446	.315	.252	.228	.179	.149	.129	.058	.040	.034	.030	.014	.012	.010	.000	.000	.000	.000	.000
38	.571	.452	.319	.252	.230	.181	.151	.133	.073	.042	.034	.030	.014	.012	.010	.000	.000	.000	.000	.000
39	.575	.458	.323	.252	.232	.183	.153	.137	.077	.054	.034	.030	.014	.012	.010	.000	.000	.000	.000	.000
40	.579	.464	.327	.252	.234	.185	.155	.141	.081	.058	.042	.030	.014	.012	.010	.000	.000	.000	.000	.000

TOTAL OBSERVATIONS 496

TABLE 5. 8.b. P(N ≥ W) | LAUNCH OPPORTUNITIES IN J PERIODS (W = 45 M/SEC).  
BASED ON MAXIMUM WIND SPEEDS IN THE 10-15 KM LAYER OVER CAPE KENNEDY, FLORIDA.  
PERIOD OF RECORD JANUARY 1956 - DECEMBER 1963.



CAPE KENNEDY, FLORIDA MAY

SPEEDS GREATER THAN OR EQUAL TO 50 MPS

PC ( I CONSECUTIVE SUCCESSES IN J PERIODS )

	I																			
J	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
1	.069																			
2	.091	.044																		
3	.113	.054	.034																	
4	.133	.065	.047	.026																
5	.153	.075	.050	.032	.020															
6	.169	.085	.058	.038	.026	.014														
7	.179	.093	.067	.044	.032	.020	.008													
8	.185	.101	.073	.050	.038	.026	.012	.004												
9	.192	.109	.079	.054	.044	.032	.016	.006	.002											
10	.198	.117	.085	.058	.048	.038	.020	.008	.004	.000										
11	.204	.125	.091	.063	.052	.042	.024	.010	.006	.000	.000									
12	.210	.131	.097	.067	.056	.046	.028	.012	.008	.000	.000	.000								
13	.216	.137	.101	.071	.060	.050	.032	.014	.010	.000	.000	.000	.000							
14	.222	.141	.105	.073	.065	.054	.036	.016	.012	.000	.000	.000	.000	.000						
15	.228	.145	.109	.075	.067	.058	.040	.018	.014	.000	.000	.000	.000	.000	.000					
16	.234	.149	.111	.077	.069	.060	.044	.020	.016	.000	.000	.000	.000	.000	.000	.000				
17	.238	.153	.113	.079	.071	.063	.046	.022	.018	.000	.000	.000	.000	.000	.000	.000	.000			
18	.242	.157	.115	.079	.073	.065	.048	.022	.020	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
19	.246	.161	.117	.079	.075	.067	.050	.022	.020	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
20	.250	.165	.119	.079	.075	.069	.052	.022	.020	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
21	.254	.169	.121	.079	.075	.071	.054	.022	.020	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
22	.258	.173	.123	.079	.075	.071	.056	.022	.020	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
23	.262	.177	.125	.079	.075	.071	.058	.022	.020	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
24	.266	.181	.127	.079	.075	.071	.060	.022	.020	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
25	.270	.185	.129	.079	.075	.071	.063	.022	.020	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
26	.274	.190	.131	.079	.075	.071	.065	.022	.020	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
27	.278	.194	.133	.079	.075	.071	.067	.022	.020	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
28	.282	.198	.135	.079	.075	.071	.067	.022	.020	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
29	.286	.202	.137	.079	.075	.071	.067	.022	.020	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
30	.288	.206	.139	.079	.075	.071	.067	.022	.020	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
31	.288	.210	.141	.079	.075	.071	.067	.022	.020	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
32	.288	.212	.143	.079	.075	.071	.067	.022	.020	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
33	.288	.214	.145	.079	.075	.071	.067	.022	.020	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
34	.288	.216	.147	.079	.075	.071	.067	.022	.020	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
35	.288	.218	.149	.079	.075	.071	.067	.022	.020	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
36	.288	.220	.151	.079	.075	.071	.067	.022	.020	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
37	.288	.222	.153	.079	.075	.071	.067	.022	.020	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
38	.288	.224	.155	.079	.075	.071	.067	.022	.020	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
39	.288	.226	.157	.079	.075	.071	.067	.022	.020	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
40	.288	.228	.159	.079	.075	.071	.067	.022	.020	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000

TOTAL OBSERVATIONS 496

TABLE 5. 9.a.  $P(W \geq W^*)$  I CONSECUTIVE LAUNCH OPPORTUNITIES IN J PERIODS ( $W^* = 50$  M/SEC).  
 BASED ON MAXIMUM WIND SPEEDS IN THE 10-15 KM LAYER OVER CAPE KENNEDY, FLORIDA.  
 PERIOD OF RECORD JANUARY 1956 - DECEMBER 1963.

CAPE KENNEDY, FLORIDA MAY  
SPEEDS GREATER THAN OR EQUAL TO 050 MPS

P ( I SUCCESSES IN J PERIODS )

	I																			
J	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
1	.069																			
2	.091	.044																		
3	.113	.054	.034																	
4	.133	.067	.042	.026																
5	.153	.077	.052	.032	.020															
6	.169	.089	.060	.040	.026	.014														
7	.179	.101	.071	.046	.034	.020	.008													
8	.185	.111	.081	.054	.040	.028	.012	.004												
9	.192	.119	.089	.063	.048	.034	.018	.006	.002											
10	.198	.127	.095	.071	.054	.042	.022	.010	.004	.000										
11	.204	.133	.101	.079	.058	.048	.028	.012	.008	.000	.000									
12	.210	.137	.107	.087	.063	.052	.034	.016	.010	.002	.000	.000								
13	.216	.141	.109	.097	.067	.056	.040	.020	.012	.004	.000	.000	.000							
14	.222	.145	.111	.101	.075	.060	.046	.024	.014	.006	.000	.000	.000	.000						
15	.228	.149	.113	.105	.075	.071	.052	.028	.016	.008	.000	.000	.000	.000	.000					
16	.234	.153	.115	.107	.077	.071	.067	.032	.018	.010	.000	.000	.000	.000	.000	.000				
17	.238	.157	.117	.109	.079	.071	.067	.046	.020	.012	.003	.000	.000	.000	.000	.000	.000			
18	.242	.161	.119	.111	.081	.071	.067	.048	.032	.014	.000	.000	.000	.000	.000	.000	.000	.000		
19	.246	.165	.121	.113	.083	.071	.067	.050	.034	.024	.000	.000	.000	.000	.000	.000	.000	.000	.000	
20	.250	.169	.123	.115	.085	.071	.067	.052	.036	.026	.008	.000	.000	.000	.000	.000	.000	.000	.000	.000
21	.255	.173	.125	.117	.087	.071	.067	.054	.038	.028	.010	.006	.000	.000	.000	.000	.000	.000	.000	.000
22	.258	.177	.127	.119	.089	.071	.067	.054	.040	.030	.012	.008	.004	.000	.000	.000	.000	.000	.000	.000
23	.262	.181	.129	.121	.091	.071	.067	.054	.040	.032	.014	.010	.006	.002	.000	.000	.000	.000	.000	.000
24	.266	.185	.131	.123	.093	.071	.067	.054	.040	.032	.016	.012	.008	.004	.000	.000	.000	.000	.000	.000
25	.270	.190	.133	.125	.095	.071	.067	.054	.040	.032	.016	.014	.010	.006	.000	.000	.000	.000	.000	.000
26	.274	.194	.135	.127	.097	.071	.067	.054	.040	.032	.016	.014	.012	.008	.000	.000	.000	.000	.000	.000
27	.278	.198	.137	.129	.099	.071	.067	.054	.040	.032	.016	.014	.012	.010	.000	.000	.000	.000	.000	.000
28	.282	.202	.139	.131	.101	.071	.067	.054	.040	.032	.016	.014	.012	.010	.000	.000	.000	.000	.000	.000
29	.286	.206	.141	.133	.103	.071	.067	.054	.040	.032	.016	.014	.012	.010	.000	.000	.000	.000	.000	.000
30	.288	.212	.143	.135	.105	.071	.067	.054	.040	.032	.016	.014	.012	.010	.000	.000	.000	.000	.000	.000
31	.288	.216	.145	.137	.107	.071	.067	.054	.040	.032	.016	.014	.012	.010	.000	.000	.000	.000	.000	.000
32	.288	.220	.151	.143	.109	.071	.067	.054	.040	.032	.016	.014	.012	.010	.000	.000	.000	.000	.000	.000
33	.288	.224	.153	.145	.115	.071	.067	.054	.040	.032	.016	.014	.012	.010	.000	.000	.000	.000	.000	.000
34	.288	.228	.155	.147	.117	.075	.067	.054	.040	.032	.016	.014	.012	.010	.000	.000	.000	.000	.000	.000
35	.288	.232	.157	.149	.119	.075	.071	.054	.040	.032	.016	.014	.012	.010	.000	.000	.000	.000	.000	.000
36	.288	.236	.159	.151	.121	.075	.071	.058	.040	.032	.016	.014	.012	.010	.000	.000	.000	.000	.000	.000
37	.288	.240	.161	.153	.123	.075	.071	.060	.042	.032	.016	.014	.012	.010	.000	.000	.000	.000	.000	.000
38	.288	.242	.165	.155	.125	.075	.071	.063	.044	.032	.016	.014	.012	.010	.000	.000	.000	.000	.000	.000
39	.288	.244	.167	.159	.127	.075	.071	.065	.046	.032	.016	.014	.012	.010	.000	.000	.000	.000	.000	.000
40	.288	.246	.169	.161	.131	.075	.071	.067	.048	.032	.016	.014	.012	.010	.000	.000	.000	.000	.000	.000

TOTAL OBSERVATIONS 496

TABLE 5. 9.b. P(W ≥ W\*) I LAUNCH OPPORTUNITIES IN J PERIODS (W\* = 50 M/SEC).  
BASED ON MAXIMUM WIND SPEEDS IN THE 10-15 KM LAYER OVER CAPE KENNEDY, FLORIDA.  
PERIOD OF RECORD JANUARY 1956 - DECEMBER 1963.

CAPE KENNEDY , FLORIDA MAY

SPEEDS GREATER THAN OR EQUAL TO 055 MPS

PC ( I CONSECUTIVE SUCCESSES IN J PERIODS )

J	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
1	.032																			
2	.050	.012																		
3	.065	.018	.006																	
4	.079	.024	.010	.002																
5	.091	.030	.014	.004	.000															
6	.103	.036	.018	.006	.000	.000														
7	.111	.042	.022	.008	.000	.000	.000													
8	.117	.048	.026	.010	.000	.000	.000	.000												
9	.121	.054	.030	.012	.000	.000	.000	.000	.000											
10	.125	.058	.034	.014	.000	.000	.000	.000	.000	.000										
11	.129	.063	.036	.016	.000	.000	.000	.000	.000	.000	.000									
12	.132	.067	.038	.018	.000	.000	.000	.000	.000	.000	.000	.000								
13	.137	.071	.040	.020	.000	.000	.000	.000	.000	.000	.000	.000	.000							
14	.141	.075	.042	.022	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000						
15	.145	.077	.044	.024	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000					
16	.149	.079	.046	.026	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000				
17	.151	.079	.048	.028	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000			
18	.153	.079	.050	.030	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000		
19	.155	.079	.050	.032	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.070
20	.157	.079	.050	.034	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
21	.159	.079	.050	.036	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
22	.161	.079	.050	.038	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
23	.163	.079	.050	.040	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
24	.165	.079	.050	.042	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
25	.167	.079	.050	.044	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
26	.169	.079	.050	.046	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
27	.171	.079	.050	.048	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
28	.173	.079	.050	.048	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
29	.175	.079	.050	.048	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
30	.177	.079	.050	.048	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
31	.179	.079	.050	.048	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
32	.181	.079	.050	.048	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
33	.183	.079	.050	.048	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
34	.185	.079	.050	.048	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
35	.188	.079	.050	.048	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
36	.190	.079	.050	.048	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
37	.192	.079	.050	.048	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
38	.194	.079	.050	.048	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
39	.196	.079	.050	.048	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
40	.196	.079	.050	.048	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000

TOTAL OBSERVATIONS 496

TABLE 5.10.a.  $P(N \geq N^*)$  I CONSECUTIVE LAUNCH OPPORTUNITIES IN J PERIODS ( $N^* = 55$  M/SEC).  
 BASED ON MAXIMUM WIND SPEEDS IN THE 10-15 KM LAYER OVER CAPE KENNEDY, FLORIDA.  
 PERIOD OF RECORD JANUARY 1956 - DECEMBER 1963.

CAPE KENNEDY, FLORIDA MAY  
 SPEEDS GREATER THAN OR EQUAL TO .055 MPS

F ( I SUCCESSES IN J PERIODS )

J	I																			
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
1	.032																			
2	.050	.012																		
3	.065	.022	.006																	
4	.079	.028	.014	.002																
5	.091	.036	.020	.006	.000															
6	.103	.044	.026	.008	.002	.000														
7	.111	.054	.034	.010	.004	.000	.000													
8	.117	.063	.047	.014	.006	.000	.000	.000												
9	.121	.069	.050	.020	.008	.000	.000	.000	.000											
10	.125	.073	.056	.028	.010	.000	.000	.000	.000	.000										
11	.129	.077	.060	.034	.014	.000	.000	.000	.000	.000	.000									
12	.133	.079	.065	.040	.016	.002	.000	.000	.000	.000	.000	.000								
13	.137	.079	.071	.046	.018	.004	.000	.000	.000	.000	.000	.000	.000							
14	.141	.079	.073	.054	.020	.006	.000	.000	.000	.000	.000	.000	.000	.000						
15	.145	.079	.073	.060	.024	.008	.000	.000	.000	.000	.000	.000	.000	.000	.000					
16	.149	.079	.073	.063	.032	.010	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000				
17	.151	.079	.073	.063	.034	.018	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000			
18	.153	.079	.073	.063	.036	.020	.006	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	
19	.155	.079	.073	.063	.038	.022	.008	.004	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
20	.157	.079	.073	.063	.040	.024	.010	.006	.002	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
21	.159	.079	.073	.063	.042	.026	.012	.008	.004	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
22	.161	.079	.073	.063	.044	.028	.014	.010	.006	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
23	.163	.079	.073	.063	.044	.030	.016	.012	.008	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
24	.165	.079	.073	.063	.044	.032	.018	.014	.010	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
25	.167	.079	.073	.063	.044	.032	.020	.016	.012	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
26	.169	.079	.073	.063	.044	.032	.020	.018	.014	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
27	.171	.079	.073	.063	.044	.032	.020	.018	.016	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
28	.173	.079	.073	.063	.044	.032	.020	.018	.016	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
29	.175	.079	.073	.063	.044	.032	.020	.018	.016	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
30	.177	.079	.073	.063	.044	.032	.020	.018	.016	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
31	.179	.079	.073	.063	.044	.032	.020	.018	.016	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
32	.181	.079	.073	.063	.044	.032	.020	.018	.016	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
33	.183	.079	.073	.063	.044	.032	.020	.018	.016	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
34	.185	.079	.073	.063	.044	.032	.020	.018	.016	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
35	.188	.079	.073	.063	.044	.032	.020	.018	.016	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
36	.190	.079	.073	.063	.044	.032	.020	.018	.016	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
37	.192	.079	.073	.063	.044	.032	.020	.018	.016	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
38	.194	.079	.073	.063	.044	.032	.020	.018	.016	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
39	.196	.079	.073	.063	.044	.032	.020	.018	.016	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
40	.196	.081	.073	.063	.044	.032	.020	.018	.016	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000

TOTAL OBSERVATIONS 496

TABLE 5.1C.b. P(W ≥ W\*) I LAUNCH OPPORTUNITIES IN J PERIODS (W\* = 55 M/SEC).  
 BASED ON MAXIMUM WIND SPEEDS IN THE 10-15 KM LAYER OVER CAPE KENNEDY, FLORIDA.  
 PERIOD OF RECORD JANUARY 1956 - DECEMBER 1963.

CAPE KENNEDY, FLORIDA JUNE

SPEEDS GREATER THAN OR EQUAL TO 010 MPS

PC ( I CONSECUTIVE SUCCESSES IN J PERIODS )

J	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
1	.875																			
2	.942	.810																		
3	.979	.858	.765																	
4	.994	.906	.810	.723																
5	.998	.933	.856	.763	.690															
6	1.00	.954	.900	.802	.723	.658														
7	1.00	.969	.925	.840	.756	.690	.629													
8	1.00	.979	.946	.875	.788	.721	.658	.602												
9	1.00	.985	.960	.898	.817	.750	.688	.631	.575											
10	1.00	.990	.973	.917	.844	.777	.715	.660	.604	.548										
11	1.00	.994	.981	.935	.860	.802	.740	.688	.633	.575	.523									
12	1.00	.998	.988	.952	.877	.827	.763	.713	.660	.602	.550	.494								
13	1.00	1.00	.994	.965	.894	.844	.785	.735	.685	.627	.577	.521	.467							
14	1.00	1.00	.998	.975	.910	.860	.808	.758	.708	.650	.602	.548	.494	.435						
15	1.00	1.00	1.00	.985	.923	.879	.825	.781	.731	.671	.625	.573	.521	.463	.406					
16	1.00	1.00	1.00	.994	.935	.896	.844	.804	.754	.692	.646	.596	.546	.490	.433	.377				
17	1.00	1.00	1.00	.998	.948	.908	.863	.823	.777	.713	.667	.617	.569	.515	.460	.400	.356			
18	1.00	1.00	1.00	1.00	.960	.921	.879	.842	.800	.733	.688	.638	.590	.538	.485	.423	.379	.335		
19	1.00	1.00	1.00	1.00	.969	.933	.894	.860	.817	.754	.708	.658	.610	.558	.508	.444	.402	.358	.317	
20	1.00	1.00	1.00	1.00	.975	.946	.908	.877	.833	.775	.729	.679	.631	.579	.529	.463	.423	.381	.333	.302
21	1.00	1.00	1.00	1.00	.979	.954	.923	.892	.850	.792	.750	.700	.652	.600	.550	.479	.442	.402	.350	.310
22	1.00	1.00	1.00	1.00	.983	.963	.938	.906	.867	.808	.771	.721	.673	.621	.571	.496	.458	.421	.365	.319
23	1.00	1.00	1.00	1.00	.988	.967	.950	.921	.881	.825	.788	.742	.694	.642	.592	.513	.475	.438	.377	.325
24	1.00	1.00	1.00	1.00	.990	.971	.960	.938	.896	.842	.804	.763	.715	.663	.613	.529	.492	.454	.388	.329
25	1.00	1.00	1.00	1.00	.992	.975	.967	.950	.913	.856	.821	.779	.735	.683	.633	.546	.508	.471	.398	.331
26	1.00	1.00	1.00	1.00	.994	.979	.971	.960	.929	.873	.838	.796	.756	.704	.654	.563	.525	.488	.408	.333
27	1.00	1.00	1.00	1.00	.996	.983	.975	.967	.942	.890	.854	.813	.773	.725	.675	.579	.542	.504	.419	.335
28	1.00	1.00	1.00	1.00	.998	.988	.979	.971	.952	.906	.871	.831	.790	.746	.696	.596	.558	.521	.429	.338
29	1.00	1.00	1.00	1.00	1.00	.992	.983	.975	.958	.921	.888	.848	.808	.763	.717	.613	.575	.538	.440	.340
30	1.00	1.00	1.00	1.00	1.00	.996	.988	.979	.963	.933	.904	.867	.827	.781	.735	.629	.592	.554	.450	.342
31	1.00	1.00	1.00	1.00	1.00	1.00	.992	.983	.967	.942	.919	.883	.846	.800	.752	.644	.608	.571	.460	.344
32	1.00	1.00	1.00	1.00	1.00	1.00	.996	.988	.971	.948	.931	.900	.865	.821	.769	.658	.623	.588	.471	.346
33	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.992	.975	.954	.940	.915	.881	.840	.788	.673	.638	.602	.481	.348
34	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.996	.979	.960	.946	.927	.898	.858	.806	.690	.652	.617	.492	.350
35	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.983	.967	.952	.935	.913	.875	.823	.706	.669	.631	.502	.352
36	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.988	.973	.958	.942	.925	.892	.840	.723	.685	.648	.513	.354
37	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.992	.979	.965	.948	.933	.908	.854	.738	.702	.665	.525	.356
38	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.992	.985	.971	.954	.940	.921	.869	.752	.717	.681	.538	.360
39	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.992	.990	.977	.960	.946	.929	.881	.765	.731	.696	.550	.365
40	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.992	.990	.983	.967	.952	.935	.892	.777	.746	.710	.560	.369

TOTAL OBSERVATIONS 480

TABLE 6. 1.a.  $P(W \geq W^*)$  I CONSECUTIVE LAUNCH OPPORTUNITIES IN J PERIODS ( $W^* = 10$  M/SEC).  
 BASED ON MAXIMUM WIND SPEEDS IN THE 10-15 KM LAYER OVER CAPE KENNEDY, FLORIDA.  
 PERIOD OF RECORD - JANUARY 1956 - DECEMBER 1963.

CAPF KENNEDY, FLORIDA JUNE  
 SPEEDS GREATER THAN OR EQUAL TO 010 MPS

P ( I SUCCESSES IN J PERIODS )

	I																			
J	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
1	.875																			
2	.942	.810																		
3	.979	.888	.765																	
4	.994	.942	.854	.723																
5	.998	.977	.910	.821	.690															
6	1.00	.992	.958	.877	.790	.658														
7	1.00	1.00	.981	.929	.846	.769	.629													
8	1.00	1.00	.996	.965	.902	.821	.748	.602												
9	1.00	1.00	.998	.992	.946	.875	.796	.729	.575											
10	1.00	1.00	1.00	.996	.983	.927	.848	.775	.710	.548										
11	1.00	1.00	1.00	1.00	.994	.969	.908	.825	.756	.690	.523									
12	1.00	1.00	1.00	1.00	1.00	.985	.958	.888	.804	.738	.669	.494								
13	1.00	1.00	1.00	1.00	1.00	.996	.981	.944	.867	.788	.717	.648	.467							
14	1.00	1.00	1.00	1.00	1.00	.998	.994	.975	.929	.848	.769	.698	.627	.435						
15	1.00	1.00	1.00	1.00	1.00	1.00	.996	.992	.969	.915	.827	.750	.679	.604	.406					
16	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.994	.990	.963	.898	.806	.729	.658	.581	.377				
17	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.992	.988	.952	.883	.788	.708	.638	.552	.356			
18	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.990	.983	.940	.873	.769	.688	.608	.529	.335		
19	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.985	.975	.933	.863	.748	.665	.583	.506	.317	
20	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.998	.981	.969	.927	.852	.727	.640	.560	.477	.302
21	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.996	.977	.963	.921	.842	.704	.617	.533	.446
22	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.994	.973	.954	.915	.831	.681	.590	.500
23	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.992	.967	.946	.908	.819	.654	.556
24	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.990	.960	.938	.902	.804	.617
25	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.988	.954	.929	.894	.781
26	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.985	.948	.921	.879
27	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.983	.942	.910
28	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.981	.935
29	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.979
30	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
31	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
32	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
33	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
34	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
35	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
36	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
37	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
38	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
39	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
40	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00

TOTAL OBSERVATIONS 480

TABLE 6. 1.b. P(W ≥ W\*) I LAUNCH OPPORTUNITIES IN J PERIODS (W\* = 10 M/SEC).  
 BASED ON MAXIMUM WIND SPEEDS IN THE 10-15 KM LAYER OVER CAPE KENNEDY, FLORIDA.  
 PERIOD OF RECORD JANUARY 1956 - DECEMBER 1963.

CAPE KENNEDY, FLORIDA JUNE  
SPEEDS GREATER THAN OR EQUAL TO 015 MPS

PC ( I CONSECUTIVE SUCCESSES IN J PERIODS )

J	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
1	.594																			
2	.713	.475																		
3	.773	.550	.400																	
4	.821	.627	.460	.340																
5	.854	.679	.521	.392	.290															
6	.883	.725	.577	.444	.335	.244														
7	.904	.758	.615	.492	.381	.283	.204													
8	.923	.788	.652	.540	.421	.323	.242	.167												
9	.940	.817	.681	.575	.460	.356	.279	.200	.135											
10	.956	.842	.708	.610	.500	.390	.310	.233	.160	.110										
11	.969	.863	.733	.642	.529	.423	.342	.260	.185	.131	.090									
12	.975	.881	.756	.671	.558	.454	.373	.288	.204	.152	.108	.071								
13	.981	.898	.775	.698	.585	.479	.402	.315	.223	.167	.127	.085	.056							
14	.985	.908	.794	.721	.610	.504	.431	.340	.242	.181	.142	.100	.069	.044						
15	.988	.919	.813	.742	.633	.527	.454	.365	.258	.196	.156	.113	.081	.054	.033					
16	.990	.929	.827	.763	.652	.548	.477	.390	.275	.208	.171	.125	.092	.065	.042	.025				
17	.992	.938	.842	.783	.669	.567	.498	.410	.292	.221	.183	.138	.102	.073	.050	.031	.019			
18	.994	.946	.856	.800	.685	.583	.517	.431	.308	.233	.196	.148	.113	.081	.058	.038	.023	.015		
19	.996	.954	.871	.817	.702	.600	.533	.450	.323	.246	.208	.158	.121	.090	.067	.044	.027	.019	.010	
20	.998	.963	.885	.833	.717	.617	.548	.467	.338	.256	.221	.169	.129	.096	.075	.050	.031	.023	.013	.008
21	1.00	.971	.900	.848	.731	.633	.563	.481	.352	.265	.231	.179	.138	.102	.081	.056	.035	.027	.015	.010
22	1.00	.977	.915	.863	.746	.648	.577	.494	.365	.273	.242	.188	.146	.108	.088	.060	.040	.031	.017	.013
23	1.00	.979	.927	.877	.758	.663	.592	.506	.375	.281	.250	.196	.152	.115	.094	.065	.042	.035	.019	.015
24	1.00	.981	.940	.892	.771	.675	.604	.519	.383	.288	.258	.204	.158	.119	.100	.069	.044	.038	.021	.017
25	1.00	.983	.950	.904	.783	.685	.617	.531	.392	.294	.267	.210	.165	.123	.104	.073	.046	.040	.023	.019
26	1.00	.985	.960	.917	.794	.698	.627	.542	.400	.298	.273	.217	.171	.127	.108	.075	.048	.042	.025	.021
27	1.00	.988	.969	.929	.804	.706	.640	.552	.408	.302	.279	.223	.177	.131	.113	.077	.048	.044	.027	.023
28	1.00	.990	.975	.942	.815	.715	.650	.565	.415	.306	.283	.227	.183	.135	.117	.079	.048	.044	.029	.025
29	1.00	.992	.979	.952	.825	.723	.658	.575	.423	.310	.288	.231	.190	.140	.121	.081	.048	.044	.029	.027
30	1.00	.994	.983	.960	.835	.731	.667	.585	.429	.315	.292	.235	.194	.144	.125	.083	.048	.044	.029	.027
31	1.00	.996	.988	.967	.844	.740	.675	.594	.435	.319	.298	.240	.198	.148	.129	.085	.048	.044	.029	.027
32	1.00	.998	.992	.973	.850	.748	.683	.602	.442	.323	.304	.242	.202	.150	.133	.088	.048	.044	.029	.027
33	1.00	1.00	.994	.977	.854	.754	.692	.610	.448	.327	.310	.244	.204	.152	.138	.090	.048	.044	.029	.027
34	1.00	1.00	.996	.981	.858	.760	.700	.619	.454	.331	.315	.246	.206	.154	.140	.092	.048	.044	.029	.027
35	1.00	1.00	.998	.983	.863	.765	.706	.627	.460	.335	.319	.246	.208	.156	.142	.094	.048	.044	.029	.027
36	1.00	1.00	.998	.985	.867	.769	.713	.635	.467	.340	.323	.246	.208	.158	.144	.094	.048	.044	.029	.027
37	1.00	1.00	.998	.988	.871	.773	.719	.644	.473	.344	.327	.246	.208	.158	.146	.094	.048	.044	.029	.027
38	1.00	1.00	1.00	.988	.875	.777	.725	.652	.479	.348	.331	.246	.208	.158	.146	.094	.048	.044	.029	.027
39	1.00	1.00	1.00	.990	.879	.781	.731	.660	.485	.352	.335	.246	.208	.158	.146	.094	.048	.044	.029	.027
40	1.00	1.00	1.00	.992	.881	.783	.738	.669	.492	.356	.340	.246	.208	.158	.146	.094	.048	.044	.029	.027

TOTAL OBSERVATIONS 480

TABLE 6. 2.a. P(W ≥ W0) I CONSECUTIVE LAUNCH OPPORTUNITIES IN J PERIODS (W0 = 15 M/SEC).  
BASED ON MAXIMUM WIND SPEEDS IN THE 10-15 KM LAYER OVER CAPE KENNEDY, FLORIDA.  
PERIOD OF RECORD JANUARY 1956 - DECEMBER 1963.

CAPF KENNEDY , FLORIDA JUNE

SPEEDS GREATER THAN OR EQUAL TO 015 MPS

P ( I SUCCESSES IN J PERIODS )

		I																			
J		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
1	.594																				
2	.713	.475																			
3	.773	.610	.400																		
4	.821	.692	.527	.340																	
5	.854	.754	.606	.471	.290																
6	.883	.796	.679	.542	.423	.244															
7	.904	.829	.727	.617	.494	.379	.204														
8	.923	.856	.760	.671	.567	.446	.340	.167													
9	.940	.879	.802	.715	.627	.521	.406	.296	.135												
10	.956	.898	.829	.750	.679	.579	.481	.360	.254	.110											
11	.969	.919	.854	.775	.717	.631	.544	.435	.311	.219	.090										
12	.975	.940	.879	.804	.740	.671	.596	.504	.394	.277	.190	.071									
13	.981	.946	.913	.829	.771	.692	.640	.556	.473	.342	.242	.160	.056								
14	.985	.954	.927	.867	.800	.717	.665	.600	.527	.419	.300	.213	.133	.044							
15	.988	.963	.940	.888	.842	.744	.690	.631	.569	.479	.373	.263	.185	.113	.033						
16	.990	.967	.950	.908	.863	.788	.717	.656	.604	.519	.440	.323	.235	.160	.094	.025					
17	.992	.969	.958	.925	.885	.810	.760	.683	.629	.560	.475	.390	.292	.206	.138	.079	.019				
18	.994	.971	.963	.942	.904	.829	.792	.725	.656	.590	.519	.433	.348	.258	.181	.117	.069	.015			
19	.996	.973	.967	.952	.921	.850	.813	.760	.700	.617	.550	.481	.392	.310	.231	.152	.106	.060	.010		
20	.998	.975	.971	.960	.935	.865	.835	.788	.733	.667	.573	.510	.446	.348	.279	.196	.138	.100	.050	.008	
21	1.00	.977	.973	.967	.948	.881	.852	.813	.765	.702	.625	.531	.475	.400	.315	.240	.173	.129	.090	.044	
22	1.00	.981	.975	.971	.958	.900	.867	.833	.792	.733	.663	.583	.496	.425	.373	.273	.208	.158	.117	.083	
23	1.00	.983	.979	.973	.963	.919	.888	.848	.813	.767	.692	.629	.542	.450	.392	.338	.235	.185	.144	.108	
24	1.00	.985	.981	.977	.969	.927	.908	.871	.825	.794	.723	.658	.594	.496	.410	.356	.304	.204	.165	.133	
25	1.00	.988	.983	.979	.973	.938	.919	.896	.846	.806	.754	.692	.625	.552	.450	.375	.327	.265	.183	.148	
26	1.00	.990	.985	.981	.977	.944	.929	.908	.875	.827	.765	.729	.658	.590	.504	.413	.342	.292	.238	.163	
27	1.00	.992	.988	.983	.979	.948	.938	.921	.894	.856	.781	.746	.696	.627	.548	.458	.373	.304	.269	.210	
28	1.00	.994	.990	.985	.981	.952	.940	.933	.906	.877	.813	.763	.719	.663	.592	.502	.415	.331	.281	.250	
29	1.00	.996	.992	.988	.983	.956	.942	.935	.925	.890	.835	.792	.740	.692	.625	.552	.456	.363	.302	.265	
30	1.00	.998	.994	.990	.985	.960	.944	.938	.929	.910	.848	.819	.771	.717	.656	.590	.504	.400	.325	.283	
31	1.00	1.00	.996	.992	.988	.965	.946	.940	.933	.919	.871	.831	.802	.752	.685	.623	.540	.452	.352	.302	
32	1.00	1.00	1.00	.994	.990	.969	.948	.942	.935	.927	.881	.854	.817	.783	.727	.652	.571	.492	.398	.325	
33	1.00	1.00	1.00	1.00	.992	.973	.950	.944	.938	.931	.892	.867	.842	.800	.765	.700	.596	.523	.444	.360	
34	1.00	1.00	1.00	1.00	1.00	.977	.952	.946	.940	.933	.900	.875	.858	.827	.781	.742	.640	.554	.477	.404	
35	1.00	1.00	1.00	1.00	1.00	.990	.954	.948	.942	.935	.904	.883	.867	.850	.808	.763	.683	.598	.515	.433	
36	1.00	1.00	1.00	1.00	1.00	.996	.965	.950	.944	.938	.908	.888	.875	.858	.833	.792	.710	.640	.563	.471	
37	1.00	1.00	1.00	1.00	1.00	.998	.973	.960	.946	.940	.913	.892	.879	.867	.844	.821	.744	.671	.604	.521	
38	1.00	1.00	1.00	1.00	1.00	1.00	.977	.969	.956	.942	.917	.896	.883	.871	.854	.829	.779	.710	.640	.556	
39	1.00	1.00	1.00	1.00	1.00	1.00	.981	.975	.965	.952	.921	.900	.888	.875	.858	.840	.794	.750	.681	.592	
40	1.00	1.00	1.00	1.00	1.00	1.00	.983	.979	.973	.958	.935	.904	.892	.879	.863	.846	.802	.773	.721	.640	

TOTAL OBSERVATIONS 480

TABLE 6. 2.b. P(N ≥ W) I LAUNCH OPPORTUNITIES IN J PERIODS (W = 15 M/SEC).  
 BASED ON MAXIMUM WIND SPEEDS IN THE 10-15 KM LAYER OVER CAPE KENNEDY, FLORIDA.  
 PERIOD OF RECORD JANUARY 1956 - DECEMBER 1963.



CAPF KENNEDY, FLORIDA JUNE

SPEEDS GREATER THAN OR EQUAL TO 020 MPS

PC ( I CONSECUTIVE SUCCESSSES IN J PERIODS )

	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
1	.373																			
2	.471	.271																		
3	.535	.321	.215																	
4	.598	.371	.252	.173																
5	.646	.417	.290	.204	.140															
6	.690	.458	.329	.235	.165	.113														
7	.723	.494	.360	.269	.190	.135	.088													
8	.752	.527	.388	.300	.217	.158	.108	.065												
9	.777	.556	.413	.325	.242	.181	.129	.079	.050											
10	.798	.581	.433	.350	.265	.202	.150	.094	.060	.040										
11	.815	.604	.452	.369	.283	.223	.169	.108	.071	.048	.031									
12	.831	.625	.471	.388	.298	.244	.188	.121	.081	.056	.040	.023								
13	.844	.648	.488	.404	.310	.256	.206	.133	.090	.065	.048	.029	.017							
14	.854	.671	.506	.417	.323	.269	.223	.146	.098	.071	.056	.035	.021	.013						
15	.865	.690	.525	.431	.331	.279	.235	.156	.106	.077	.063	.042	.025	.017	.008					
16	.875	.708	.544	.446	.340	.288	.248	.167	.113	.081	.069	.046	.029	.021	.013	.004				
17	.885	.725	.558	.460	.348	.294	.256	.175	.119	.088	.075	.050	.033	.025	.017	.008	.000			
18	.892	.742	.573	.475	.356	.300	.265	.181	.125	.092	.079	.054	.038	.029	.021	.013	.000	.000		
19	.898	.758	.585	.485	.365	.306	.271	.185	.131	.096	.083	.056	.042	.033	.025	.017	.000	.000	.000	
20	.904	.773	.598	.496	.373	.313	.277	.190	.138	.100	.088	.058	.044	.038	.029	.021	.000	.000	.000	.000
21	.913	.788	.610	.506	.379	.319	.283	.192	.142	.104	.092	.060	.046	.040	.033	.025	.000	.000	.000	.000
22	.921	.804	.621	.517	.385	.325	.290	.194	.146	.108	.096	.063	.048	.042	.035	.029	.000	.000	.000	.000
23	.929	.819	.635	.527	.392	.331	.296	.196	.148	.113	.100	.065	.050	.044	.038	.031	.000	.000	.000	.000
24	.938	.833	.646	.540	.398	.338	.302	.198	.150	.117	.104	.067	.052	.046	.040	.033	.000	.000	.000	.000
25	.944	.848	.656	.552	.406	.344	.308	.200	.152	.119	.108	.069	.054	.048	.042	.035	.000	.000	.000	.000
26	.948	.860	.667	.563	.415	.350	.315	.202	.154	.121	.113	.071	.056	.050	.044	.038	.000	.000	.000	.000
27	.952	.873	.677	.573	.423	.354	.321	.204	.156	.123	.115	.073	.058	.052	.046	.040	.000	.000	.000	.000
28	.956	.881	.685	.583	.429	.358	.325	.206	.158	.125	.117	.075	.060	.054	.048	.042	.000	.000	.000	.000
29	.958	.888	.694	.594	.435	.363	.329	.206	.160	.127	.119	.075	.063	.056	.050	.044	.000	.000	.000	.000
30	.960	.894	.700	.602	.442	.367	.333	.206	.160	.129	.121	.075	.065	.058	.052	.046	.000	.000	.000	.000
31	.963	.900	.706	.610	.448	.371	.338	.206	.160	.129	.123	.075	.065	.060	.054	.048	.000	.000	.000	.000
32	.965	.906	.713	.619	.454	.375	.342	.206	.160	.129	.123	.075	.065	.063	.056	.050	.000	.000	.000	.000
33	.967	.910	.719	.627	.460	.379	.346	.206	.160	.129	.123	.075	.065	.063	.058	.052	.000	.000	.000	.000
34	.969	.915	.725	.635	.467	.383	.350	.206	.160	.129	.123	.075	.065	.063	.060	.054	.000	.000	.000	.000
35	.971	.919	.731	.647	.473	.388	.354	.206	.160	.129	.123	.075	.065	.063	.060	.056	.000	.000	.000	.000
36	.973	.923	.738	.652	.479	.392	.358	.206	.160	.129	.123	.075	.065	.063	.060	.058	.000	.000	.000	.000
37	.975	.927	.744	.660	.488	.396	.363	.206	.160	.129	.123	.075	.065	.063	.060	.058	.000	.000	.000	.000
38	.977	.931	.750	.669	.496	.402	.367	.206	.160	.129	.123	.075	.065	.063	.060	.058	.000	.000	.000	.000
39	.979	.935	.756	.677	.504	.408	.373	.206	.160	.129	.123	.075	.065	.063	.060	.058	.000	.000	.000	.000
40	.981	.940	.758	.683	.513	.415	.379	.208	.160	.124	.123	.075	.065	.063	.060	.058	.000	.000	.000	.000

TOTAL OBSERVATIONS 480

TABLE 6. 3.a. P(M ≥ W) I CONSECUTIVE LAUNCH OPPORTUNITIES IN J PERIODS (W = 20 M/SEC).  
 BASED ON MAXIMUM WIND SPEEDS IN THE 10-15 KM LAYER OVER CAPE KENNEDY, FLORIDA.  
 PERIOD OF RECORD JANUARY 1956 - DECEMBER 1963.

CAPE KENNEDY, FLORIDA JUNE  
SPEEDS GREATER THAN OR EQUAL TO 20 MPH

P ( I SUCCESSES IN J PERIODS )

	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
1	.373																			
2	.471	.271																		
3	.535	.356	.215																	
4	.598	.419	.279	.173																
5	.646	.479	.331	.233	.140															
6	.690	.523	.388	.277	.194	.113														
7	.723	.571	.423	.331	.231	.165	.088													
8	.752	.608	.469	.367	.281	.196	.138	.065												
9	.777	.642	.502	.413	.313	.246	.163	.108	.050											
10	.798	.673	.535	.440	.360	.273	.208	.125	.090	.040										
11	.815	.702	.565	.471	.381	.321	.231	.167	.106	.073	.031									
12	.831	.725	.596	.498	.406	.346	.273	.181	.150	.085	.060	.023								
13	.844	.750	.623	.525	.431	.369	.298	.217	.163	.127	.073	.046	.017							
14	.854	.767	.656	.550	.452	.398	.323	.233	.196	.140	.113	.056	.033	.013						
15	.867	.779	.679	.585	.469	.421	.352	.257	.213	.173	.125	.092	.042	.025	.008					
16	.875	.792	.696	.613	.496	.440	.373	.281	.225	.190	.140	.102	.073	.033	.017	.004				
17	.885	.802	.715	.631	.521	.467	.397	.296	.252	.204	.175	.138	.085	.060	.023	.010	.000			
18	.892	.817	.735	.650	.538	.492	.423	.308	.265	.227	.190	.150	.125	.071	.046	.017	.000	.000		
19	.898	.829	.756	.673	.550	.510	.452	.333	.277	.242	.210	.160	.140	.110	.054	.038	.000	.000	.000	
20	.904	.838	.775	.702	.563	.523	.473	.365	.294	.254	.223	.179	.150	.123	.094	.046	.013	.000	.000	.000
21	.913	.848	.785	.729	.585	.533	.490	.385	.321	.269	.235	.188	.169	.131	.106	.085	.017	.008	.000	.000
22	.921	.860	.796	.744	.613	.554	.502	.404	.342	.288	.250	.196	.177	.150	.115	.094	.054	.010	.006	.000
23	.929	.871	.810	.758	.627	.575	.527	.419	.358	.304	.267	.208	.183	.159	.133	.100	.060	.044	.008	.004
24	.938	.881	.823	.775	.638	.596	.544	.446	.373	.319	.281	.221	.194	.165	.144	.115	.067	.048	.040	.006
25	.944	.892	.838	.790	.652	.606	.565	.463	.398	.329	.298	.229	.206	.173	.152	.123	.081	.050	.044	.035
26	.948	.900	.852	.806	.665	.621	.575	.488	.410	.352	.306	.244	.215	.183	.160	.131	.092	.058	.046	.040
27	.952	.904	.867	.821	.681	.638	.588	.506	.429	.363	.325	.250	.231	.190	.169	.140	.102	.067	.050	.042
28	.956	.908	.877	.833	.700	.652	.604	.525	.444	.379	.335	.263	.238	.206	.175	.146	.117	.075	.054	.044
29	.958	.915	.888	.842	.717	.669	.619	.546	.463	.388	.350	.273	.248	.217	.188	.152	.123	.090	.058	.046
30	.960	.919	.898	.852	.729	.683	.635	.567	.483	.398	.356	.290	.256	.225	.200	.163	.127	.098	.067	.048
31	.963	.921	.906	.865	.744	.694	.650	.590	.504	.413	.363	.294	.273	.233	.206	.177	.133	.104	.071	.054
32	.965	.923	.910	.877	.760	.704	.660	.606	.529	.429	.373	.298	.279	.248	.213	.183	.148	.110	.075	.056
33	.967	.925	.915	.885	.779	.717	.671	.617	.552	.449	.385	.306	.283	.256	.223	.190	.156	.123	.079	.058
34	.969	.927	.917	.896	.790	.735	.683	.625	.567	.466	.404	.313	.292	.260	.233	.19	.165	.131	.088	.060
35	.971	.929	.919	.902	.802	.750	.700	.635	.573	.496	.417	.329	.296	.269	.235	.210	.173	.142	.090	.067
36	.973	.933	.921	.906	.810	.765	.719	.650	.581	.506	.444	.344	.306	.273	.242	.213	.185	.154	.094	.067
37	.975	.935	.927	.910	.817	.773	.733	.673	.592	.519	.456	.369	.321	.279	.244	.219	.188	.169	.102	.067
38	.977	.938	.931	.917	.823	.779	.742	.680	.613	.533	.471	.379	.348	.288	.248	.223	.192	.171	.117	.071
39	.979	.940	.933	.927	.827	.788	.748	.696	.635	.552	.490	.392	.358	.313	.252	.229	.194	.175	.121	.083
40	.981	.942	.935	.929	.840	.794	.756	.700	.644	.577	.506	.413	.371	.323	.271	.235	.198	.177	.127	.085

TOTAL OBSERVATIONS 480

TABLE 6.3.b. P(W ≥ W<sub>0</sub>) I LAUNCH OPPORTUNITIES IN J PERIODS (W<sub>0</sub> = 20 MPH).  
BASED ON MAXIMUM WIND SPEEDS IN THE 10-15 KM LAYER OVER CAPE KENNEDY, FLORIDA.  
PERIOD OF RECORD JANUARY 1956 - DECEMBER 1963.

CAPF KENNEDY , FLORIDA JUNE

SPEEDS GREATER THAN OR EQUAL TO 025 MPS

PC ( I CONSECUTIVE SUCCESSES IN J PERIODS )

	I																			
J	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
1	.219																			
2	.294	.138																		
3	.346	.165	.108																	
4	.394	.192	.129	.085																
5	.433	.217	.150	.104	.067															
6	.469	.240	.171	.123	.083	.050														
7	.502	.260	.190	.142	.100	.065	.035													
8	.529	.279	.204	.160	.117	.079	.046	.025												
9	.552	.294	.219	.175	.133	.094	.056	.031	.019											
10	.573	.306	.231	.188	.148	.108	.067	.038	.025	.013										
11	.592	.319	.242	.198	.160	.121	.077	.044	.031	.017	.008									
12	.608	.327	.252	.208	.169	.133	.085	.050	.038	.021	.010	.006								
13	.625	.335	.260	.217	.177	.144	.094	.054	.044	.025	.013	.008	.004							
14	.640	.344	.267	.223	.185	.152	.100	.058	.048	.024	.015	.010	.006	.002						
15	.654	.356	.273	.229	.190	.160	.106	.060	.052	.031	.017	.013	.008	.004	.000					
16	.665	.367	.279	.233	.194	.167	.113	.063	.054	.033	.019	.015	.010	.006	.000	.000				
17	.673	.377	.285	.238	.198	.171	.117	.065	.056	.033	.021	.017	.013	.008	.000	.000	.000			
18	.683	.388	.292	.242	.200	.175	.121	.067	.058	.033	.021	.019	.015	.010	.005	.000	.000	.000		
19	.694	.394	.298	.246	.202	.179	.125	.069	.060	.033	.021	.019	.017	.013	.000	.000	.000	.000	.000	
20	.704	.404	.304	.250	.204	.181	.129	.071	.063	.033	.021	.019	.017	.015	.000	.000	.000	.000	.000	.000
21	.710	.413	.310	.254	.206	.183	.133	.073	.065	.033	.021	.019	.017	.015	.000	.000	.000	.000	.000	.000
22	.717	.421	.317	.258	.208	.185	.135	.075	.067	.033	.021	.019	.017	.015	.000	.000	.000	.000	.000	.000
23	.727	.429	.323	.263	.210	.189	.138	.077	.069	.033	.021	.019	.017	.015	.000	.000	.000	.000	.000	.000
24	.738	.440	.329	.267	.213	.190	.140	.077	.071	.033	.021	.019	.017	.015	.000	.000	.000	.000	.000	.000
25	.743	.450	.335	.271	.215	.192	.142	.077	.073	.033	.021	.019	.017	.015	.000	.000	.000	.000	.000	.000
26	.758	.458	.342	.275	.217	.194	.144	.077	.073	.033	.021	.019	.017	.015	.000	.000	.000	.000	.000	.000
27	.767	.467	.348	.279	.219	.196	.146	.077	.073	.033	.021	.019	.017	.015	.000	.000	.000	.000	.000	.000
28	.775	.473	.352	.283	.221	.198	.148	.077	.073	.033	.021	.019	.017	.015	.000	.000	.000	.000	.000	.000
29	.781	.479	.356	.285	.223	.200	.150	.077	.073	.033	.021	.019	.017	.015	.000	.000	.000	.000	.000	.000
30	.788	.485	.358	.288	.223	.202	.152	.077	.073	.033	.021	.019	.017	.015	.000	.000	.000	.000	.000	.000
31	.794	.492	.360	.290	.223	.202	.154	.077	.073	.033	.021	.019	.017	.015	.000	.000	.000	.000	.000	.000
32	.800	.498	.363	.292	.223	.202	.154	.077	.073	.033	.021	.019	.017	.015	.000	.000	.000	.000	.000	.000
33	.806	.504	.365	.294	.223	.202	.154	.077	.073	.033	.021	.019	.017	.015	.000	.000	.000	.000	.000	.000
34	.813	.510	.367	.296	.223	.202	.154	.077	.073	.033	.021	.019	.017	.015	.000	.000	.000	.000	.000	.000
35	.819	.517	.371	.298	.223	.202	.154	.077	.073	.033	.021	.019	.017	.015	.000	.000	.000	.000	.000	.000
36	.825	.523	.375	.302	.223	.202	.154	.077	.073	.033	.021	.019	.017	.015	.000	.000	.000	.000	.000	.000
37	.833	.531	.379	.304	.223	.202	.154	.077	.073	.033	.021	.019	.017	.015	.000	.000	.000	.000	.000	.000
38	.840	.540	.385	.310	.223	.202	.154	.077	.073	.033	.021	.019	.017	.015	.000	.000	.000	.000	.000	.000
39	.846	.546	.392	.317	.223	.202	.154	.077	.073	.033	.021	.019	.017	.015	.000	.000	.000	.000	.000	.000
40	.852	.552	.396	.323	.225	.202	.154	.077	.073	.033	.021	.019	.017	.015	.000	.000	.000	.000	.000	.000

TOTAL OBSERVATIONS 480

TABLE 6. 4. P(W ≥ W<sub>0</sub>) I CONSECUTIVE LAUNCH OPPORTUNITIES IN J PERIODS (W<sub>0</sub> = 25 M/SEC).  
 BASED ON MAXIMUM WIND SPEEDS IN THE 10-15 KM LAYER OVER CAPE KENNEDY, FLORIDA.  
 PERIOD OF RECORD JANUARY 1956 - DECEMBER 1963.

CAPE KENNEDY , FLORIDA JUNE

SPEEDS GREATER THAN OR EQUAL TO 025 MPS

P ( I SUCCESSES IN J PERIODS )

	I																			
J	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
1	.219																			
2	.294	.138																		
3	.346	.188	.108																	
4	.394	.233	.135	.085																
5	.433	.271	.171	.113	.067															
6	.469	.304	.202	.135	.094	.050														
7	.502	.333	.231	.156	.117	.077	.035													
8	.529	.358	.263	.177	.131	.102	.058	.025												
9	.552	.379	.290	.202	.146	.117	.091	.044	.019											
10	.573	.398	.310	.213	.167	.129	.094	.063	.038	.013										
11	.592	.415	.327	.242	.183	.150	.104	.073	.054	.029	.008									
12	.608	.431	.344	.252	.202	.163	.125	.083	.063	.044	.021	.007								
13	.625	.446	.358	.267	.213	.177	.138	.104	.071	.052	.031	.017	.004							
14	.640	.460	.373	.283	.223	.181	.154	.117	.090	.060	.038	.025	.013	.002						
15	.654	.473	.385	.300	.235	.185	.158	.135	.100	.079	.044	.031	.019	.008	.000					
16	.665	.490	.394	.317	.250	.190	.163	.140	.121	.088	.063	.038	.025	.013	.002	.000				
17	.673	.506	.402	.329	.265	.198	.167	.144	.125	.110	.071	.054	.031	.017	.004	.000	.000			
18	.683	.519	.415	.335	.281	.204	.175	.148	.129	.113	.098	.063	.046	.021	.006	.000	.000	.000		
19	.694	.529	.427	.344	.292	.215	.183	.154	.133	.115	.104	.090	.054	.031	.008	.000	.000	.000	.000	
20	.704	.540	.438	.354	.300	.221	.196	.160	.138	.117	.108	.098	.081	.038	.015	.000	.000	.000	.000	.000
21	.710	.554	.448	.363	.306	.229	.202	.173	.142	.119	.110	.102	.092	.063	.019	.002	.000	.000	.000	.000
22	.717	.565	.460	.373	.313	.233	.208	.179	.154	.119	.113	.104	.096	.073	.044	.004	.000	.000	.000	.000
23	.727	.575	.471	.383	.321	.238	.210	.188	.160	.127	.113	.106	.098	.075	.056	.025	.000	.000	.000	.000
24	.738	.588	.481	.390	.331	.242	.213	.192	.169	.133	.117	.106	.100	.075	.098	.040	.017	.000	.000	.000
25	.748	.598	.494	.394	.340	.246	.217	.194	.175	.142	.121	.108	.100	.075	.058	.044	.029	.015	.000	.000
26	.758	.606	.508	.398	.344	.252	.217	.198	.179	.148	.129	.108	.102	.075	.058	.046	.031	.027	.013	.000
27	.767	.617	.517	.408	.346	.258	.219	.198	.193	.154	.135	.113	.102	.077	.058	.048	.033	.029	.025	.010
28	.775	.625	.529	.413	.354	.263	.223	.198	.183	.162	.142	.117	.134	.079	.058	.050	.035	.031	.027	.023
29	.781	.633	.542	.421	.346	.271	.227	.200	.183	.160	.150	.121	.106	.083	.058	.052	.038	.033	.029	.025
30	.788	.642	.552	.431	.358	.273	.238	.200	.185	.160	.152	.127	.108	.088	.060	.052	.040	.035	.031	.027
31	.794	.650	.560	.444	.360	.273	.240	.208	.185	.163	.152	.129	.113	.092	.063	.054	.040	.038	.033	.029
32	.800	.658	.569	.454	.365	.273	.240	.213	.190	.163	.154	.129	.115	.096	.065	.056	.042	.038	.035	.031
33	.806	.667	.579	.463	.371	.273	.240	.217	.192	.165	.154	.131	.115	.100	.067	.058	.046	.038	.035	.033
34	.813	.675	.588	.475	.375	.275	.240	.219	.196	.167	.154	.133	.115	.102	.069	.060	.050	.040	.035	.033
35	.819	.683	.596	.488	.379	.279	.240	.221	.196	.173	.154	.135	.115	.104	.069	.063	.054	.044	.035	.033
36	.825	.694	.604	.500	.383	.283	.242	.221	.196	.173	.160	.138	.115	.106	.069	.063	.058	.048	.038	.033
37	.833	.702	.617	.513	.388	.285	.246	.221	.196	.173	.160	.146	.115	.106	.069	.063	.059	.052	.042	.033
38	.840	.710	.627	.529	.392	.288	.248	.223	.196	.173	.160	.148	.121	.106	.069	.063	.058	.054	.046	.033
39	.846	.717	.635	.546	.400	.290	.250	.225	.196	.173	.160	.148	.123	.113	.069	.063	.058	.054	.048	.040
40	.852	.721	.644	.560	.408	.294	.252	.227	.196	.173	.160	.148	.123	.113	.075	.063	.058	.054	.050	.042

TOTAL OBSERVATIONS 490

TABLE 6. 4.b. P(M ≥ W) I LAUNCH OPPORTUNITIES IN J PERIODS (W = 25 M/SEC).  
 BASED ON MAXIMUM WIND SPEEDS IN THE 10-15 KM LAYER OVER CAPE KENNEDY, FLORIDA.  
 PERIOD OF RECORD JANUARY 1956 - DECEMBER 1963.

CAPE KENNEDY, FLORIDA JUNE

SPEEDS GREATER THAN OR EQUAL TO 030 MPS

PC ( I CONSECUTIVE SUCCESSES IN J PERIODS )

	I																			
J	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
1	.133																			
2	.173	.092																		
3	.208	.113	.071																	
4	.242	.133	.088	.054																
5	.271	.152	.104	.067	.042															
6	.296	.171	.121	.079	.054	.029														
7	.321	.188	.135	.092	.067	.040	.019													
8	.342	.202	.148	.104	.079	.050	.023	.015												
9	.363	.215	.160	.115	.092	.060	.027	.017	.013											
10	.381	.225	.171	.125	.102	.071	.031	.019	.015	.010										
11	.398	.235	.181	.133	.113	.079	.035	.021	.017	.013	.008									
12	.413	.244	.190	.142	.121	.088	.040	.023	.019	.015	.010	.006								
13	.427	.252	.196	.150	.129	.094	.044	.025	.021	.017	.013	.008	.004							
14	.440	.258	.202	.156	.138	.100	.046	.027	.023	.017	.015	.010	.006	.002						
15	.452	.265	.208	.163	.144	.106	.048	.027	.025	.021	.017	.013	.008	.004	.000					
16	.465	.271	.213	.169	.150	.110	.050	.027	.025	.023	.019	.015	.010	.006	.000	.000				
17	.477	.277	.217	.175	.156	.115	.052	.027	.025	.023	.021	.017	.013	.008	.000	.000	.000			
18	.488	.283	.221	.177	.163	.119	.054	.027	.025	.023	.021	.019	.015	.010	.000	.000	.000	.000		
19	.496	.290	.225	.179	.169	.123	.056	.027	.025	.023	.021	.019	.017	.013	.000	.000	.000	.000	.000	
20	.504	.296	.229	.181	.171	.127	.058	.027	.025	.023	.021	.019	.017	.015	.000	.000	.000	.000	.000	.000
21	.510	.302	.233	.183	.173	.131	.060	.027	.025	.023	.021	.019	.017	.015	.000	.000	.000	.000	.000	.000
22	.517	.308	.238	.185	.175	.133	.063	.027	.025	.023	.021	.019	.017	.015	.000	.000	.000	.000	.000	.000
23	.523	.315	.242	.188	.177	.135	.065	.027	.025	.023	.021	.019	.017	.015	.000	.000	.000	.000	.000	.000
24	.529	.321	.246	.190	.179	.138	.065	.027	.025	.023	.021	.019	.017	.015	.000	.000	.000	.000	.000	.000
25	.535	.327	.250	.192	.181	.140	.065	.027	.025	.023	.021	.019	.017	.015	.000	.000	.000	.000	.000	.000
26	.540	.333	.254	.194	.183	.142	.065	.027	.025	.023	.021	.019	.017	.015	.000	.000	.000	.000	.000	.000
27	.544	.340	.258	.196	.185	.144	.065	.027	.025	.023	.021	.019	.017	.015	.000	.000	.000	.000	.000	.000
28	.550	.344	.263	.198	.188	.146	.065	.027	.025	.023	.021	.019	.017	.015	.000	.000	.000	.000	.000	.000
29	.556	.348	.265	.200	.190	.148	.065	.027	.025	.023	.021	.019	.017	.015	.000	.000	.000	.000	.000	.000
30	.563	.352	.267	.200	.192	.150	.065	.027	.025	.023	.021	.019	.017	.015	.000	.000	.000	.000	.000	.000
31	.569	.354	.269	.200	.192	.152	.065	.027	.025	.023	.021	.019	.017	.015	.000	.000	.000	.000	.000	.000
32	.573	.356	.271	.200	.192	.152	.065	.027	.025	.023	.021	.019	.017	.015	.000	.000	.000	.000	.000	.000
33	.577	.358	.273	.200	.192	.152	.065	.027	.025	.023	.021	.019	.017	.015	.000	.000	.000	.000	.000	.000
34	.581	.360	.275	.200	.192	.152	.065	.027	.025	.023	.021	.019	.017	.015	.000	.000	.000	.000	.000	.000
35	.585	.363	.277	.200	.192	.152	.065	.027	.025	.023	.021	.019	.017	.015	.000	.000	.000	.000	.000	.000
36	.592	.365	.279	.200	.192	.152	.065	.027	.025	.023	.021	.019	.017	.015	.000	.000	.000	.000	.000	.000
37	.598	.369	.281	.200	.192	.152	.065	.027	.025	.023	.021	.019	.017	.015	.000	.000	.000	.000	.000	.000
38	.602	.373	.285	.200	.192	.152	.065	.027	.025	.023	.021	.019	.017	.015	.000	.000	.000	.000	.000	.000
39	.606	.375	.290	.202	.192	.152	.065	.027	.025	.023	.021	.019	.017	.015	.000	.000	.000	.000	.000	.000
40	.610	.377	.292	.204	.194	.152	.063	.027	.025	.023	.021	.019	.017	.015	.000	.000	.000	.000	.000	.000

TOTAL OBSERVATIONS 480

TABLE 6. 5.a.  $P(W \geq W_0)$  I CONSECUTIVE LAUNCH OPPORTUNITIES IN J PERIODS ( $W_0 = 30$  M/SEC).

BASED ON MAXIMUM WIND SPEEDS IN THE 10-15 KM LAYER OVER CAPE KENNEDY, FLORIDA.

PERIOD OF RECORD JANUARY 1956 - DECEMBER 1963.

CAPE KENNEDY , FLORIDA JUNE  
SPEEDS GREATER THAN OR EQUAL TO 030 MPS

P ( I SUCCESSES IN J PERIODS )

	I																			
J	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
1	.133																			
2	.173	.092																		
3	.208	.117	.071																	
4	.242	.138	.092	.054																
5	.271	.160	.108	.073	.042															
6	.296	.183	.127	.085	.060	.029														
7	.321	.200	.148	.100	.073	.046	.019													
8	.342	.219	.163	.117	.088	.056	.029	.015												
9	.363	.231	.181	.127	.104	.069	.035	.021	.013											
10	.381	.244	.190	.146	.115	.083	.044	.025	.017	.010										
11	.398	.256	.198	.154	.133	.092	.054	.031	.021	.013	.008									
12	.413	.269	.206	.160	.144	.108	.063	.040	.025	.015	.010	.006								
13	.427	.277	.217	.167	.150	.121	.075	.048	.029	.017	.013	.008	.004							
14	.440	.288	.221	.177	.156	.127	.088	.058	.033	.019	.015	.010	.006	.002						
15	.452	.296	.227	.179	.169	.133	.092	.073	.038	.021	.017	.013	.008	.004	.000					
16	.465	.304	.231	.183	.171	.148	.096	.077	.050	.023	.019	.015	.010	.006	.000	.000				
17	.477	.313	.235	.185	.175	.150	.113	.081	.052	.033	.021	.017	.013	.008	.000	.000	.000			
18	.488	.321	.242	.188	.177	.154	.115	.100	.054	.035	.029	.019	.015	.010	.000	.000	.000	.000		
19	.496	.329	.248	.192	.179	.158	.117	.104	.071	.038	.031	.025	.017	.013	.000	.000	.000	.000	.000	
20	.504	.338	.252	.196	.183	.163	.119	.108	.073	.054	.033	.027	.021	.015	.000	.000	.000	.000	.000	.000
21	.510	.348	.256	.198	.188	.169	.119	.113	.075	.056	.050	.029	.023	.017	.000	.000	.000	.000	.000	.000
22	.517	.358	.260	.200	.190	.175	.121	.113	.079	.056	.052	.046	.025	.019	.000	.000	.000	.000	.000	.000
23	.523	.367	.267	.202	.192	.179	.125	.113	.081	.058	.052	.048	.042	.021	.000	.000	.000	.000	.000	.000
24	.529	.375	.271	.204	.194	.183	.129	.113	.083	.058	.054	.048	.044	.038	.000	.000	.000	.000	.000	.000
25	.535	.383	.275	.206	.196	.185	.135	.113	.083	.058	.054	.050	.044	.040	.015	.000	.000	.000	.000	.000
26	.540	.394	.279	.208	.198	.188	.140	.115	.083	.058	.054	.050	.046	.040	.017	.013	.000	.000	.000	.000
27	.544	.400	.285	.210	.200	.190	.144	.115	.085	.058	.054	.050	.046	.042	.019	.015	.010	.000	.000	.000
28	.550	.406	.290	.213	.202	.192	.148	.115	.088	.058	.054	.050	.046	.042	.023	.017	.013	.008	.000	.000
29	.556	.410	.296	.213	.204	.194	.150	.117	.088	.060	.054	.050	.046	.042	.025	.021	.015	.010	.006	.000
30	.563	.415	.298	.217	.204	.196	.152	.117	.090	.060	.056	.050	.046	.042	.027	.023	.019	.013	.008	.004
31	.569	.419	.300	.219	.206	.196	.154	.117	.090	.063	.056	.052	.046	.042	.029	.025	.021	.017	.010	.006
32	.573	.423	.302	.221	.208	.196	.154	.117	.090	.065	.056	.052	.048	.042	.029	.027	.023	.019	.015	.008
33	.577	.427	.304	.223	.210	.196	.154	.117	.090	.065	.058	.052	.048	.044	.029	.027	.025	.021	.017	.013
34	.581	.431	.306	.225	.213	.196	.154	.117	.090	.065	.058	.054	.048	.044	.031	.027	.025	.023	.019	.015
35	.585	.435	.308	.225	.217	.196	.154	.117	.090	.065	.058	.054	.050	.044	.033	.027	.025	.023	.021	.017
36	.592	.440	.310	.225	.217	.200	.154	.117	.090	.065	.058	.054	.050	.046	.035	.027	.025	.023	.021	.019
37	.598	.446	.313	.225	.217	.200	.158	.117	.090	.065	.058	.054	.050	.046	.040	.027	.025	.023	.021	.019
38	.602	.452	.317	.225	.217	.200	.198	.121	.090	.065	.058	.054	.050	.046	.042	.029	.025	.023	.021	.019
39	.606	.454	.323	.227	.217	.200	.198	.121	.094	.065	.058	.054	.050	.046	.042	.031	.025	.023	.021	.019
40	.610	.456	.327	.229	.219	.200	.198	.121	.094	.069	.058	.054	.050	.046	.042	.033	.025	.023	.021	.019

TOTAL OBSERVATIONS 480

TABLE 6. 5.b. P(W ≥ W<sub>0</sub>) I LAUNCH OPPORTUNITIES IN J PERIODS (W<sub>0</sub> = 30 M/SEC).  
BASED ON MAXIMUM WIND SPEEDS IN THE 10-15 KM LAYER OVER CAPE KENNEDY, FLORIDA.  
PERIOD OF RECORD JANUARY 1956 - DECEMBER 1963.

CAPE KENNEDY, FLORIDA JUNE  
SPEEDS GREATER THAN OR EQUAL TO 035 MPS

PC ( 1 CONSECUTIVE SUCCESSES IN J PERIODS )

I

J	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
1	.073																			
2	.110	.033																		
3	.140	.050	.017																	
4	.160	.067	.023	.010																
5	.181	.079	.029	.015	.006															
6	.200	.090	.035	.019	.010	.002														
7	.217	.098	.042	.023	.015	.004	.000													
8	.231	.106	.048	.027	.019	.006	.000	.000												
9	.244	.113	.054	.031	.023	.008	.000	.000	.000											
10	.256	.119	.060	.035	.027	.010	.000	.000	.000	.000										
11	.267	.125	.067	.040	.031	.013	.000	.000	.000	.000	.000									
12	.275	.129	.073	.044	.035	.015	.000	.000	.000	.000	.000	.000								
13	.283	.133	.077	.048	.040	.017	.000	.000	.000	.000	.000	.000	.000							
14	.292	.135	.081	.050	.044	.019	.000	.000	.000	.000	.000	.000	.000	.000						
15	.300	.138	.081	.052	.046	.021	.000	.000	.000	.000	.000	.000	.000	.000	.000					
16	.308	.140	.081	.052	.048	.023	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000				
17	.317	.140	.081	.052	.048	.025	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000			
18	.325	.140	.081	.052	.048	.025	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000		
19	.333	.140	.081	.052	.048	.025	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	
20	.342	.140	.081	.052	.048	.025	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
21	.350	.140	.081	.052	.048	.025	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
22	.358	.140	.081	.052	.048	.025	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
23	.367	.140	.081	.052	.048	.025	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
24	.375	.140	.081	.052	.048	.025	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
25	.383	.140	.081	.052	.048	.025	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
26	.392	.140	.081	.052	.048	.025	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
27	.400	.140	.081	.052	.048	.025	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
28	.406	.140	.081	.052	.048	.025	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
29	.410	.140	.081	.052	.048	.025	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
30	.415	.140	.081	.052	.048	.025	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
31	.419	.140	.081	.052	.048	.025	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
32	.423	.140	.081	.052	.048	.025	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
33	.427	.140	.081	.052	.048	.025	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
34	.431	.140	.081	.052	.048	.025	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
35	.435	.140	.081	.052	.048	.025	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
36	.440	.140	.081	.052	.048	.025	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
37	.444	.140	.081	.052	.048	.025	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
38	.448	.140	.081	.052	.048	.025	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
39	.452	.140	.081	.052	.048	.025	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
40	.456	.140	.081	.052	.048	.025	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000

TOTAL OBSERVATIONS 490

TABLE 6. 6.a. P(N ≥ W\*) I CONSECUTIVE LAUNCH OPPORTUNITIES IN J PERIODS (W\* = 35 M/SEC).  
BASED ON MAXIMUM WIND SPEEDS IN THE 10-15 KM LAYER OVER CAPE KENNEDY, FLORIDA.  
PERIOD OF RECORD JANUARY 1956 - DECEMBER 1963.

CAPE KENNEDY, FLORIDA JUNF

SPEEDS GREATER THAN OR EQUAL TO 035 MPS

P ( I SUCCESSES IN J PERIODS )

	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
1	.073																			
2	.110	.033																		
3	.140	.058	.017																	
4	.160	.079	.035	.010																
5	.181	.094	.050	.025	.006															
6	.200	.106	.065	.033	.019	.002														
7	.217	.119	.073	.048	.025	.010	.000													
8	.231	.127	.085	.056	.038	.013	.006	.000												
9	.244	.138	.094	.069	.044	.021	.010	.002	.000											
10	.256	.146	.102	.077	.054	.025	.017	.006	.000	.000										
11	.267	.152	.108	.085	.060	.033	.021	.010	.002	.000	.000									
12	.275	.158	.115	.094	.067	.040	.027	.015	.004	.000	.000	.000								
13	.283	.163	.119	.100	.073	.046	.033	.017	.008	.000	.000	.000	.000							
14	.292	.167	.123	.102	.077	.052	.040	.019	.010	.002	.000	.000	.000	.000						
15	.300	.169	.127	.106	.077	.058	.044	.021	.013	.004	.000	.000	.000	.000	.000					
16	.308	.171	.127	.113	.079	.063	.048	.023	.015	.006	.000	.000	.000	.000	.000	.000				
17	.317	.173	.127	.117	.081	.067	.052	.025	.017	.009	.000	.000	.000	.000	.000	.000	.000			
18	.325	.175	.127	.117	.088	.069	.056	.027	.019	.010	.000	.000	.000	.000	.000	.000	.000	.000		
19	.333	.177	.127	.117	.088	.077	.058	.031	.021	.013	.000	.000	.000	.000	.000	.000	.000	.000	.000	
20	.342	.179	.127	.117	.088	.081	.065	.033	.023	.015	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
21	.350	.181	.127	.117	.088	.081	.069	.040	.025	.015	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
22	.358	.183	.127	.117	.088	.081	.069	.044	.029	.017	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
23	.367	.185	.127	.117	.088	.081	.069	.044	.031	.023	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
24	.375	.188	.127	.117	.088	.081	.069	.044	.031	.029	.002	.000	.000	.000	.000	.000	.000	.000	.000	.000
25	.383	.190	.127	.117	.088	.081	.069	.044	.031	.029	.010	.000	.000	.000	.000	.000	.000	.000	.000	.000
26	.392	.192	.127	.117	.088	.081	.069	.044	.031	.029	.015	.004	.000	.000	.000	.000	.000	.000	.000	.000
27	.400	.194	.127	.117	.088	.081	.069	.044	.031	.029	.019	.008	.000	.000	.000	.000	.000	.000	.000	.000
28	.406	.196	.127	.117	.088	.081	.069	.044	.031	.029	.021	.013	.002	.000	.000	.000	.000	.000	.000	.000
29	.410	.200	.127	.117	.088	.081	.069	.044	.031	.029	.023	.015	.006	.000	.000	.000	.000	.000	.000	.000
30	.415	.202	.129	.117	.088	.081	.069	.044	.031	.029	.025	.017	.010	.000	.000	.000	.000	.000	.000	.000
31	.419	.202	.131	.117	.088	.081	.069	.044	.031	.029	.027	.019	.013	.002	.000	.000	.000	.000	.000	.000
32	.423	.202	.133	.117	.088	.081	.069	.044	.031	.029	.027	.021	.015	.004	.000	.000	.000	.000	.000	.000
33	.427	.202	.135	.117	.088	.081	.069	.044	.031	.029	.027	.023	.017	.006	.000	.000	.000	.000	.000	.000
34	.431	.202	.138	.117	.088	.081	.069	.044	.031	.029	.027	.025	.019	.008	.000	.000	.000	.000	.000	.000
35	.435	.202	.140	.117	.088	.081	.069	.044	.031	.029	.027	.025	.021	.010	.000	.000	.000	.000	.000	.000
36	.440	.202	.140	.119	.088	.081	.069	.044	.031	.029	.027	.025	.021	.013	.000	.000	.000	.000	.000	.000
37	.444	.202	.140	.119	.090	.081	.069	.044	.031	.029	.027	.025	.021	.015	.000	.000	.000	.000	.000	.000
38	.448	.202	.140	.119	.090	.083	.069	.044	.031	.029	.027	.025	.021	.015	.000	.000	.000	.000	.000	.000
39	.452	.202	.140	.119	.090	.083	.071	.044	.031	.029	.027	.025	.021	.015	.000	.000	.000	.000	.000	.000
40	.456	.202	.140	.119	.090	.083	.071	.046	.031	.029	.027	.025	.021	.015	.000	.000	.000	.000	.000	.000

TOTAL OBSERVATIONS 480

TABLE 6.6b. P(N ≥ N\*) I LAUNCH OPPORTUNITIES IN J PERIODS (N\* = 35 M/SEC).  
 BASED ON MAXIMUM WIND SPEEDS IN THE 10-15 KM LAYER OVER CAPE KENNEDY, FLORIDA.  
 PERIOD OF RECORD JANUARY 1956 - DECEMBER 1963.



CAPE KENNEDY, FLORIDA JUNE

SPEEDS GREATER THAN OR EQUAL TO 040 MPS

PC ( I CONSECUTIVE SUCCESSES IN J PERIODS )

	I																			
J	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
1	.035																			
2	.058	.013																		
3	.077	.021	.004																	
4	.090	.029	.006	.002																
5	.102	.035	.008	.004	.000															
6	.115	.042	.010	.006	.000	.000														
7	.127	.048	.013	.008	.000	.000	.000													
8	.138	.054	.015	.010	.000	.000	.000	.000												
9	.148	.060	.017	.013	.000	.000	.000	.000	.000											
10	.156	.067	.019	.015	.000	.000	.000	.000	.000	.000										
11	.165	.071	.021	.017	.000	.000	.000	.000	.000	.000	.000									
12	.171	.075	.023	.019	.000	.000	.000	.000	.000	.000	.000	.000								
13	.177	.077	.025	.021	.000	.000	.000	.000	.000	.000	.000	.000	.000							
14	.183	.077	.025	.023	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000						
15	.190	.077	.025	.023	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000					
16	.194	.077	.025	.023	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000				
17	.198	.077	.025	.023	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000			
18	.202	.077	.025	.023	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000		
19	.206	.077	.025	.023	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	
20	.210	.077	.025	.023	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
21	.215	.077	.025	.023	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
22	.219	.077	.025	.023	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
23	.223	.077	.025	.023	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
24	.227	.077	.025	.023	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
25	.231	.077	.025	.023	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
26	.235	.077	.025	.023	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
27	.240	.077	.025	.023	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
28	.244	.077	.025	.023	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
29	.248	.077	.025	.023	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
30	.252	.077	.025	.023	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
31	.254	.077	.025	.023	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
32	.256	.077	.025	.023	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
33	.258	.077	.025	.023	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
34	.260	.077	.025	.023	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
35	.263	.077	.025	.023	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
36	.263	.077	.025	.023	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
37	.263	.077	.025	.023	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
38	.263	.077	.025	.023	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
39	.263	.077	.025	.023	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
40	.263	.077	.025	.023	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000

TOTAL OBSERVATIONS 480

TABLE 6. 7.a.  $P(N \geq W)$  I CONSECUTIVE LAUNCH OPPORTUNITIES IN J PERIODS ( $W = 40$  N/SEC).  
 BASED ON MAXIMUM WIND SPEEDS IN THE 10-15 KM LAYER OVER CAPE KENNEDY, FLORIDA.  
 PERIOD OF RECORD JANUARY 1956 - DECEMBER 1963.

CAPE KENNEDY, FLORIDA JUNE  
 SPFFDS GREATER THAN OR EQUAL TO 040 MPS

P ( I SUCCESSES IN J PERIODS )

J	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
1	.035																			
2	.058	.013																		
3	.077	.025	.004																	
4	.090	.038	.013	.002																
5	.102	.048	.021	.006	.000															
6	.115	.056	.029	.013	.000	.000														
7	.127	.065	.033	.021	.002	.000	.000													
8	.138	.073	.038	.027	.006	.000	.000	.000												
9	.148	.081	.042	.031	.013	.000	.000	.000	.000											
10	.156	.090	.046	.035	.015	.004	.000	.000	.000	.000										
11	.165	.094	.050	.040	.017	.008	.000	.000	.000	.000	.000									
12	.171	.098	.054	.044	.019	.013	.000	.000	.000	.000	.000	.000								
13	.177	.100	.056	.048	.021	.015	.002	.000	.000	.000	.000	.000	.000							
14	.183	.102	.056	.050	.023	.017	.004	.000	.000	.000	.000	.000	.000	.000						
15	.190	.104	.056	.050	.025	.019	.006	.000	.000	.000	.000	.000	.000	.000	.000					
16	.194	.108	.056	.050	.025	.021	.008	.000	.000	.000	.000	.000	.000	.000	.000	.000				
17	.198	.113	.056	.050	.025	.021	.010	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000			
18	.202	.117	.056	.050	.025	.021	.013	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000		
19	.206	.117	.060	.050	.025	.021	.015	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	
20	.210	.117	.063	.052	.025	.021	.015	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
21	.215	.117	.065	.054	.025	.021	.015	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
22	.219	.117	.065	.056	.027	.021	.015	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
23	.223	.117	.065	.056	.029	.023	.015	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
24	.227	.117	.065	.056	.031	.025	.015	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
25	.231	.117	.065	.056	.031	.027	.017	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
26	.235	.117	.065	.056	.031	.027	.021	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
27	.240	.117	.065	.056	.031	.027	.025	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
28	.244	.117	.065	.056	.031	.027	.025	.004	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
29	.248	.117	.065	.056	.031	.027	.025	.008	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
30	.252	.117	.065	.056	.031	.027	.025	.013	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
31	.254	.117	.065	.056	.031	.027	.025	.015	.002	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
32	.256	.117	.065	.056	.031	.027	.025	.017	.004	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
33	.258	.117	.065	.056	.031	.027	.025	.019	.006	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
34	.260	.117	.065	.056	.031	.027	.025	.021	.008	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
35	.263	.117	.065	.056	.031	.027	.025	.021	.010	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
36	.263	.119	.065	.056	.031	.027	.025	.021	.013	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
37	.263	.119	.067	.056	.031	.027	.025	.021	.015	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
38	.263	.119	.067	.058	.031	.027	.025	.021	.015	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
39	.263	.119	.067	.058	.033	.027	.025	.021	.015	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
40	.263	.119	.067	.058	.035	.027	.025	.021	.015	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000

TOTAL OBSERVATIONS 480

TABLE 6.7b. P(W ≥ W<sub>0</sub>) I LAUNCH OPPORTUNITIES IN J PERIODS (W<sub>0</sub> = 40 M/SEC).  
 BASED ON MAXIMUM WIND SPEEDS IN THE 10-15 KM LAYER OVER CAPE KENNEDY, FLORIDA.  
 PERIOD OF RECORD JANUARY 1956 - DECEMBER 1963.

CAPE KENNEDY • FLORIDA JULY

SPEEDS GREATER THAN OR EQUAL TO 010 MPS

P( I CONSECUTIVE SUCCESSES IN J PERIODS )

	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
1	.835																			
2	.921	.746																		
3	.962	.813	.677																	
4	.980	.881	.738	.613																
5	.988	.913	.800	.667	.554															
6	.994	.935	.863	.724	.601	.504														
7	.998	.948	.895	.780	.649	.546	.458													
8	1.00	.960	.919	.839	.698	.591	.498	.411												
9	1.00	.970	.935	.869	.748	.635	.538	.448	.369											
10	1.00	.980	.950	.895	.798	.681	.579	.484	.401	.331										
11	1.00	.984	.960	.915	.827	.728	.621	.520	.433	.359	.294									
12	1.00	.988	.970	.933	.851	.776	.663	.556	.466	.387	.323	.262								
13	1.00	.992	.974	.948	.871	.804	.708	.593	.498	.415	.351	.286	.234							
14	1.00	.994	.978	.962	.889	.831	.752	.631	.530	.444	.379	.310	.258	.206						
15	1.00	.996	.982	.970	.903	.851	.778	.669	.565	.477	.407	.335	.282	.230	.177					
16	1.00	.998	.984	.976	.917	.871	.800	.708	.599	.502	.435	.359	.306	.254	.196	.155				
17	1.00	1.00	.986	.982	.927	.889	.821	.734	.633	.532	.466	.383	.331	.279	.214	.173	.133			
18	1.00	1.00	.988	.984	.938	.907	.841	.758	.667	.563	.496	.409	.355	.302	.232	.192	.147	.115		
19	1.00	1.00	.990	.986	.948	.921	.859	.780	.694	.593	.526	.435	.381	.327	.250	.210	.161	.127	.099	
20	1.00	1.00	.992	.988	.954	.933	.879	.802	.718	.623	.556	.462	.407	.353	.268	.228	.175	.139	.111	.085
21	1.00	1.00	.994	.990	.960	.946	.895	.827	.740	.647	.587	.488	.433	.379	.286	.246	.190	.151	.123	.097
22	1.00	1.00	.996	.992	.966	.952	.909	.851	.764	.669	.617	.514	.460	.405	.304	.264	.204	.163	.135	.107
23	1.00	1.00	.998	.994	.970	.958	.921	.871	.786	.692	.641	.540	.486	.431	.323	.282	.218	.175	.147	.121
24	1.00	1.00	1.00	.996	.974	.964	.929	.887	.808	.714	.665	.567	.512	.458	.341	.300	.232	.188	.159	.133
25	1.00	1.00	1.00	.998	.978	.970	.938	.901	.825	.734	.688	.591	.538	.484	.359	.319	.246	.200	.171	.145
26	1.00	1.00	1.00	1.00	.982	.974	.946	.909	.839	.752	.710	.613	.567	.510	.377	.337	.260	.212	.183	.157
27	1.00	1.00	1.00	1.00	.986	.978	.957	.917	.851	.766	.728	.635	.591	.538	.395	.355	.274	.224	.196	.169
28	1.00	1.00	1.00	1.00	.990	.982	.956	.925	.859	.778	.746	.655	.613	.567	.415	.373	.288	.236	.208	.181
29	1.00	1.00	1.00	1.00	.992	.986	.960	.933	.867	.790	.760	.673	.633	.591	.435	.393	.302	.248	.220	.194
30	1.00	1.00	1.00	1.00	.994	.990	.964	.940	.875	.798	.772	.690	.653	.611	.456	.413	.319	.260	.232	.206
31	1.00	1.00	1.00	1.00	.996	.992	.968	.946	.885	.806	.784	.704	.669	.631	.474	.433	.335	.274	.244	.218
32	1.00	1.00	1.00	1.00	.998	.994	.972	.952	.893	.817	.792	.716	.685	.649	.490	.454	.351	.288	.258	.230
33	1.00	1.00	1.00	1.00	1.00	.996	.974	.958	.901	.827	.802	.728	.700	.665	.504	.472	.367	.302	.272	.242
34	1.00	1.00	1.00	1.00	1.00	.998	.976	.964	.909	.835	.813	.738	.712	.681	.518	.486	.383	.317	.286	.254
35	1.00	1.00	1.00	1.00	1.00	1.00	.978	.968	.917	.843	.823	.748	.726	.698	.532	.500	.395	.331	.300	.266
36	1.00	1.00	1.00	1.00	1.00	1.00	.980	.972	.925	.851	.831	.758	.736	.712	.548	.514	.407	.343	.315	.278
37	1.00	1.00	1.00	1.00	1.00	1.00	.982	.974	.929	.859	.839	.768	.746	.724	.567	.530	.419	.353	.327	.290
38	1.00	1.00	1.00	1.00	1.00	1.00	.984	.976	.933	.867	.847	.776	.756	.734	.581	.548	.433	.363	.339	.300
39	1.00	1.00	1.00	1.00	1.00	1.00	.986	.978	.938	.873	.855	.782	.766	.744	.595	.567	.448	.375	.349	.310
40	1.00	1.00	1.00	1.00	1.00	1.00	.988	.980	.942	.879	.863	.788	.774	.754	.607	.581	.462	.387	.361	.321

TOTAL OBSERVATIONS 496

TABLE 7. 1.a. P(W ≥ W\*) I CONSECUTIVE LAUNCH OPPORTUNITIES IN J PERIODS (W\* = 10 M/SEC).

BASED ON MAXIMUM WIND SPEEDS IN THE 10-15 KM LAYER OVER CAPE KENNEDY, FLORIDA.

PERIOD OF RECORD JANUARY 1956 - DECEMBER 1963.

CAPE KENNEDY, FLORIDA JULY  
SPEEDS GREATER THAN OR EQUAL TO 10 K M/S

P ( I SUCCESSSES IN J PERIODS )

I

J	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
1	.835																			
2	.921	.746																		
3	.962	.861	.677																	
4	.980	.915	.823	.613																
5	.989	.950	.885	.784	.554															
6	.994	.966	.925	.859	.744	.504														
7	.998	.972	.950	.911	.829	.706	.458													
8	1.00	.978	.962	.940	.893	.794	.673	.411												
9	1.00	.984	.968	.958	.920	.860	.767	.647	.369											
10	1.00	.989	.974	.964	.954	.915	.843	.734	.597	.331										
11	1.00	.992	.980	.968	.940	.950	.895	.821	.702	.556	.294									
12	1.00	.994	.988	.972	.964	.956	.947	.877	.790	.673	.516	.262								
13	1.00	.996	.992	.980	.968	.950	.952	.931	.853	.767	.647	.474	.234							
14	1.00	.998	.994	.984	.978	.964	.956	.946	.921	.827	.738	.615	.440	.206						
15	1.00	1.00	.994	.986	.982	.976	.960	.952	.940	.905	.804	.714	.589	.403	.177					
16	1.00	1.00	1.00	.988	.984	.980	.974	.956	.948	.920	.801	.784	.692	.558	.363	.155				
17	1.00	1.00	1.00	.994	.986	.982	.978	.972	.952	.944	.915	.881	.762	.667	.520	.333	.133			
18	1.00	1.00	1.00	.996	.992	.984	.980	.974	.970	.948	.933	.905	.871	.732	.641	.488	.302	.115		
19	1.00	1.00	1.00	.998	.994	.990	.982	.978	.974	.968	.940	.923	.897	.851	.706	.609	.456	.278	.099	
20	1.00	1.00	1.00	1.00	.996	.992	.988	.980	.976	.972	.964	.933	.913	.883	.831	.673	.585	.421	.260	.085
21	1.00	1.00	1.00	1.00	1.00	.994	.990	.986	.978	.974	.968	.962	.927	.890	.871	.802	.649	.556	.391	.242
22	1.00	1.00	1.00	1.00	1.00	1.00	.992	.988	.984	.976	.970	.966	.960	.919	.887	.851	.774	.631	.524	.363
23	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.990	.986	.982	.972	.968	.964	.956	.911	.867	.831	.756	.611	.494
24	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.988	.984	.978	.970	.966	.960	.952	.895	.851	.815	.740	.591
25	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.984	.982	.974	.968	.964	.956	.938	.885	.835	.802	.722
26	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.984	.980	.970	.966	.960	.946	.929	.867	.825	.792
27	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.982	.976	.968	.962	.950	.944	.913	.853	.817
28	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.978	.974	.964	.954	.946	.935	.897	.863
29	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.998	.976	.970	.958	.948	.942	.925	.885
30	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.996	.972	.966	.950	.944	.938	.915
31	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.992	.970	.956	.946	.940	.929
32	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.988	.960	.952	.942	.931
33	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.976	.958	.946	.933
34	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.992	.972	.954	.935
35	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.994	.990	.968	.942
36	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.996	.992	.988	.954
37	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.998	.994	.990	.978
38	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.996	.992	.984
39	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.994	.986
40	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.988

TOTAL OBSERVATIONS 496

TABLE 7.1.b. P(N ≥ W\*) I LAUNCH OPPORTUNITIES IN J PERIODS (W\* = 10 M/SEC).  
BASED ON MAXIMUM WIND SPEEDS IN THE 10-15 KM LAYER OVER CAPE KENNEDY, FLORIDA.  
PERIOD OF RECORD JANUARY 1956 - DECEMBER 1963.

CAPE KENNEDY , FLORIDA JLLY

SPEEDS GREATER THAN OR EQUAL TO 015 MPS

PC ( I CONSECUTIVE SUCCESSES IN J PERIODS )

J	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
1	.448																			
2	.591	.304																		
3	.665	.391	.220																	
4	.728	.476	.278	.155																
5	.782	.530	.337	.194	.111															
6	.825	.583	.395	.232	.141	.079														
7	.859	.631	.446	.268	.171	.099	.056													
8	.885	.677	.494	.304	.202	.119	.069	.042												
9	.903	.710	.538	.341	.232	.139	.081	.052	.030											
10	.921	.738	.579	.375	.264	.159	.093	.063	.040	.020										
11	.938	.760	.611	.407	.296	.181	.105	.073	.050	.028	.012									
12	.954	.780	.643	.438	.327	.206	.117	.083	.060	.036	.018	.006								
13	.966	.798	.669	.468	.355	.230	.131	.093	.071	.044	.024	.008	.004							
14	.976	.817	.694	.496	.381	.252	.145	.105	.081	.052	.030	.010	.006	.002						
15	.982	.833	.714	.520	.403	.274	.159	.117	.093	.06	.036	.012	.008	.004	.000					
16	.986	.849	.734	.544	.425	.292	.171	.129	.105	.071	.042	.014	.010	.006	.000	.000				
17	.990	.859	.754	.567	.444	.308	.181	.141	.117	.081	.050	.016	.012	.008	.000	.000	.000			
18	.992	.869	.774	.589	.462	.325	.192	.151	.129	.091	.058	.020	.014	.010	.000	.000	.000	.000		
19	.994	.879	.788	.613	.478	.339	.202	.161	.139	.10	.067	.024	.016	.012	.000	.000	.000	.000	.000	
20	.996	.889	.800	.635	.496	.353	.212	.171	.149	.111	.075	.028	.018	.014	.000	.000	.000	.000	.000	.000
21	.998	.899	.810	.651	.514	.367	.220	.181	.159	.121	.083	.032	.020	.016	.010	.000	.000	.000	.000	.000
22	1.00	.909	.821	.665	.530	.381	.228	.192	.169	.131	.091	.036	.022	.018	.000	.000	.000	.000	.000	.000
23	1.00	.917	.831	.679	.542	.395	.236	.200	.179	.141	.099	.040	.024	.020	.000	.000	.000	.000	.000	.000
24	1.00	.927	.843	.694	.554	.407	.244	.208	.190	.151	.107	.044	.026	.022	.000	.000	.000	.000	.000	.000
25	1.00	.933	.853	.712	.565	.419	.252	.216	.198	.161	.115	.048	.028	.024	.000	.000	.000	.000	.000	.000
26	1.00	.940	.863	.728	.577	.429	.258	.224	.206	.171	.123	.052	.030	.026	.000	.000	.000	.000	.000	.000
27	1.00	.946	.871	.740	.589	.442	.262	.232	.214	.179	.131	.056	.032	.028	.000	.000	.000	.000	.000	.000
28	1.00	.950	.879	.752	.599	.454	.268	.236	.222	.188	.139	.060	.034	.030	.000	.000	.000	.000	.000	.000
29	1.00	.954	.887	.764	.607	.466	.274	.242	.228	.194	.147	.065	.036	.032	.000	.000	.000	.000	.000	.000
30	1.00	.958	.895	.776	.615	.478	.280	.248	.232	.202	.155	.069	.038	.034	.000	.000	.000	.000	.000	.000
31	1.00	.962	.903	.788	.623	.490	.286	.254	.236	.208	.161	.073	.040	.036	.000	.000	.000	.000	.000	.000
32	1.00	.966	.911	.800	.631	.502	.292	.260	.240	.214	.167	.077	.042	.038	.000	.000	.000	.000	.000	.000
33	1.00	.970	.919	.813	.639	.514	.298	.266	.244	.220	.173	.081	.044	.040	.000	.000	.000	.000	.000	.000
34	1.00	.974	.927	.823	.647	.526	.304	.272	.248	.226	.179	.085	.046	.042	.000	.000	.000	.000	.000	.000
35	1.00	.978	.935	.833	.655	.538	.310	.278	.252	.232	.185	.089	.048	.044	.000	.000	.000	.000	.000	.000
36	1.00	.982	.944	.843	.661	.550	.317	.284	.256	.238	.192	.093	.050	.046	.000	.000	.000	.000	.000	.000
37	1.00	.984	.952	.853	.667	.563	.323	.290	.260	.244	.198	.097	.052	.048	.000	.000	.000	.000	.000	.000
38	1.00	.986	.956	.863	.673	.571	.329	.294	.264	.250	.204	.101	.054	.050	.000	.000	.000	.000	.000	.000
39	1.00	.988	.960	.871	.679	.579	.335	.302	.268	.256	.210	.105	.056	.052	.000	.000	.000	.000	.000	.000
40	1.00	.990	.964	.879	.685	.587	.339	.308	.272	.262	.216	.109	.058	.054	.000	.000	.000	.000	.000	.000

TOTAL OBSERVATIONS 496

TABLE 7. 2.a. P(W ≥ W\*) I CONSECUTIVE LAUNCH OPPORTUNITIES IN J PERIODS (W\* = 15 M/SEC).  
 BASED ON MAXIMUM WIND SPEEDS IN THE 10-15 KM LAYER OVER CAPE KENNEDY, FLORIDA.  
 PERIOD OF RECORD JANUARY 1956 - DECEMBER 1963.

CAPE KENNEDY, FLORIDA JULY  
SPEEDS GREATER THAN OR EQUAL TO 015 MPS

P ( I SUCCESSES IN J PERIODS )

J	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	
1	.448																				
2	.591	.304																			
3	.665	.458	.220																		
4	.728	.538	.361	.155																	
5	.782	.609	.440	.280	.111																
6	.825	.675	.504	.365	.214	.079															
7	.859	.734	.575	.419	.298	.159	.056														
8	.885	.780	.633	.492	.349	.246	.111	.042													
9	.903	.823	.681	.554	.417	.288	.200	.077	.030												
10	.921	.847	.740	.603	.480	.349	.240	.159	.054	.020											
11	.938	.873	.768	.667	.532	.407	.288	.200	.123	.040	.012										
12	.954	.891	.802	.706	.589	.464	.337	.242	.175	.091	.028	.006									
13	.966	.911	.831	.742	.633	.514	.391	.284	.214	.147	.069	.014	.004								
14	.976	.929	.857	.772	.679	.558	.438	.335	.250	.181	.127	.044	.008	.002							
15	.982	.948	.881	.804	.716	.597	.488	.373	.300	.212	.163	.097	.030	.004	.000						
16	.986	.958	.907	.839	.748	.637	.528	.417	.335	.258	.194	.129	.079	.020	.000	.000					
17	.990	.966	.919	.871	.792	.671	.565	.462	.371	.292	.238	.155	.107	.069	.008	.000	.000				
18	.992	.976	.929	.885	.837	.712	.599	.500	.417	.321	.274	.194	.135	.095	.048	.006	.000	.000			
19	.994	.984	.942	.895	.857	.760	.633	.540	.452	.369	.298	.230	.173	.117	.073	.040	.002	.000	.000		
20	.996	.992	.952	.905	.873	.788	.673	.581	.492	.401	.347	.258	.208	.151	.093	.060	.030	.000	.000	.000	
21	.998	.994	.968	.913	.889	.813	.698	.619	.538	.431	.379	.302	.240	.185	.121	.077	.046	.024	.000	.000	
22	1.00	.996	.974	.929	.899	.837	.726	.645	.575	.480	.405	.333	.280	.222	.153	.099	.065	.034	.020	.000	
23	1.00	1.00	.980	.938	.919	.853	.756	.673	.603	.510	.450	.357	.315	.256	.190	.127	.085	.052	.026	.016	
24	1.00	1.00	.988	.948	.925	.879	.780	.704	.635	.536	.476	.401	.333	.294	.220	.163	.111	.069	.042	.022	
25	1.00	1.00	.992	.958	.935	.891	.808	.734	.663	.571	.498	.429	.373	.310	.254	.194	.145	.091	.058	.036	
26	1.00	1.00	.996	.964	.946	.905	.827	.760	.698	.601	.528	.448	.405	.347	.286	.226	.177	.121	.079	.048	
27	1.00	1.00	.998	.972	.952	.917	.845	.778	.730	.641	.556	.476	.423	.383	.298	.238	.204	.151	.111	.063	
28	1.00	1.00	1.00	.978	.960	.925	.863	.788	.756	.679	.597	.506	.450	.397	.341	.282	.218	.173	.141	.091	
29	1.00	1.00	1.00	.986	.966	.939	.877	.800	.768	.722	.633	.544	.478	.425	.357	.304	.236	.190	.159	.123	
30	1.00	1.00	1.00	.990	.976	.944	.893	.813	.778	.742	.679	.579	.514	.450	.385	.323	.274	.208	.173	.139	
31	1.00	1.00	1.00	.994	.982	.956	.907	.827	.786	.756	.708	.623	.546	.486	.413	.345	.296	.238	.190	.159	
32	1.00	1.00	1.00	.996	.988	.966	.923	.843	.794	.764	.732	.653	.591	.508	.452	.375	.315	.266	.210	.173	
33	1.00	1.00	1.00	.998	.992	.976	.935	.863	.804	.774	.746	.679	.625	.548	.472	.415	.343	.284	.236	.190	
34	1.00	1.00	1.00	1.00	.994	.984	.950	.877	.819	.786	.756	.698	.653	.577	.514	.435	.385	.310	.250	.216	
35	1.00	1.00	1.00	1.00	.998	.990	.960	.883	.823	.792	.774	.710	.675	.605	.534	.484	.405	.351	.274	.232	
36	1.00	1.00	1.00	1.00	.998	.996	.970	.905	.853	.802	.780	.734	.688	.635	.554	.514	.446	.373	.313	.254	
37	1.00	1.00	1.00	1.00	.998	.996	.982	.915	.867	.819	.788	.744	.712	.655	.593	.532	.480	.413	.331	.292	
38	1.00	1.00	1.00	1.00	.998	.996	.988	.927	.881	.831	.800	.756	.722	.683	.605	.554	.508	.442	.369	.310	
39	1.00	1.00	1.00	1.00	.998	.996	.990	.940	.895	.841	.810	.770	.734	.702	.633	.577	.526	.474	.401	.343	
40	1.00	1.00	1.00	1.00	.998	.996	.992	.948	.909	.853	.823	.780	.746	.718	.655	.603	.542	.496	.438	.373	

TOTAL OBSERVATIONS 496

TABLE 7. 2.b. P(N ≥ W) I LAUNCH OPPORTUNITIES IN J PERIODS (W = 15 M/SEC).  
BASED ON MAXIMUM WIND SPEEDS IN THE 10-15 KM LAYER OVER CAPE KENNEDY, FLORIDA.  
PERIOD OF RECORD JANUARY 1956 - DECEMBER 1963.

CAPE KENNEDY, FLORIDA JULY

SPEEDS GREATER THAN OR EQUAL TO 020 MPS

PC ( I CONSECUTIVE SUCCESSES IN J PERIODS )

J	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	
1	.185																				
2	.264	.105																			
3	.323	.141	.071																		
4	.377	.177	.091	.050																	
5	.425	.206	.111	.065	.036																
6	.468	.236	.129	.079	.044	.028															
7	.510	.236	.143	.091	.052	.032	.024														
8	.548	.298	.157	.103	.058	.036	.028	.020													
9	.579	.331	.173	.113	.065	.040	.032	.024	.016												
10	.609	.361	.192	.125	.071	.044	.036	.028	.020	.012											
11	.635	.391	.210	.139	.077	.048	.040	.032	.024	.016	.008										
12	.659	.421	.226	.153	.085	.052	.044	.036	.028	.020	.012	.004									
13	.683	.446	.242	.167	.093	.058	.048	.040	.032	.024	.016	.006	.002								
14	.708	.470	.256	.181	.101	.065	.054	.044	.036	.028	.020	.008	.004	.000							
15	.730	.492	.258	.194	.109	.071	.060	.050	.040	.032	.024	.010	.006	.000	.000						
16	.752	.514	.280	.206	.117	.077	.067	.056	.044	.036	.028	.012	.008	.000	.000	.000					
17	.772	.536	.292	.216	.125	.083	.073	.063	.048	.040	.032	.014	.010	.000	.000	.000	.000				
18	.788	.556	.304	.226	.133	.089	.079	.069	.052	.044	.036	.016	.012	.000	.000	.000	.000	.000			
19	.804	.575	.317	.236	.141	.095	.085	.075	.056	.048	.040	.018	.014	.000	.000	.000	.000	.000	.000		
20	.821	.593	.329	.246	.149	.101	.091	.081	.060	.052	.044	.020	.016	.000	.000	.000	.000	.000	.000	.000	
21	.835	.609	.341	.256	.157	.107	.097	.087	.065	.056	.048	.022	.018	.000	.000	.000	.000	.000	.000	.000	.000
22	.847	.621	.353	.266	.165	.113	.103	.093	.069	.060	.052	.024	.020	.000	.000	.000	.000	.000	.000	.000	.000
23	.857	.633	.359	.276	.173	.119	.109	.099	.073	.065	.056	.026	.022	.000	.000	.000	.000	.000	.000	.000	.000
24	.867	.643	.367	.284	.181	.125	.115	.105	.077	.069	.060	.028	.024	.000	.000	.000	.000	.000	.000	.000	.000
25	.877	.653	.375	.290	.188	.131	.121	.111	.081	.073	.065	.030	.026	.000	.000	.000	.000	.000	.000	.000	.000
26	.887	.663	.383	.296	.194	.137	.127	.117	.085	.077	.069	.032	.028	.000	.000	.000	.000	.000	.000	.000	.000
27	.899	.673	.391	.302	.200	.143	.133	.123	.089	.081	.073	.034	.030	.000	.000	.000	.000	.000	.000	.000	.000
28	.909	.683	.399	.308	.206	.149	.139	.129	.093	.085	.077	.036	.032	.000	.000	.000	.000	.000	.000	.000	.000
29	.919	.694	.407	.315	.212	.155	.145	.135	.097	.089	.081	.038	.034	.000	.000	.000	.000	.000	.000	.000	.000
30	.929	.702	.415	.321	.218	.161	.151	.141	.101	.093	.085	.040	.036	.000	.000	.000	.000	.000	.000	.000	.000
31	.940	.710	.423	.327	.224	.167	.157	.147	.105	.097	.089	.042	.038	.000	.000	.000	.000	.000	.000	.000	.000
32	.948	.718	.431	.333	.230	.173	.163	.153	.109	.101	.093	.044	.040	.000	.000	.000	.000	.000	.000	.000	.000
33	.956	.726	.438	.339	.236	.179	.169	.159	.113	.105	.097	.046	.042	.000	.000	.000	.000	.000	.000	.000	.000
34	.964	.734	.444	.345	.242	.185	.175	.165	.117	.109	.101	.048	.044	.000	.000	.000	.000	.000	.000	.000	.000
35	.970	.742	.450	.349	.248	.192	.181	.171	.121	.113	.105	.050	.046	.000	.000	.000	.000	.000	.000	.000	.000
36	.974	.750	.456	.353	.254	.198	.188	.177	.125	.117	.109	.052	.048	.000	.000	.000	.000	.000	.000	.000	.000
37	.978	.756	.462	.357	.256	.204	.194	.183	.129	.121	.113	.054	.050	.000	.000	.000	.000	.000	.000	.000	.000
38	.982	.762	.470	.361	.258	.208	.200	.190	.133	.125	.117	.056	.052	.000	.000	.000	.000	.000	.000	.000	.000
39	.986	.768	.478	.365	.260	.212	.204	.196	.137	.129	.121	.058	.054	.000	.000	.000	.000	.000	.000	.000	.000
40	.990	.772	.486	.369	.262	.216	.208	.200	.141	.133	.125	.060	.056	.000	.000	.000	.000	.000	.000	.000	.000

TOTAL OBSERVATIONS 494

TABLE 7. S.a. P(W ≥ W<sub>0</sub>) I CONSECUTIVE LAUNCH OPPORTUNITIES IN J PERIODS (W<sub>0</sub> = 20 M/SEC).  
 BASED ON MAXIMUM WIND SPEEDS IN THE 10-15 KM LAYER OVER CAPE KENNEDY, FLORIDA.  
 PERIOD OF RECORD JANUARY 1954 - DECEMBER 1963.

CAPE KENNEDY, FLORIDA JULY  
SPEEDS GREATER THAN OR EQUAL TO 020 MPS

P ( 1 SUCCESSSES IN J PERIODS )

J	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
1	.185																			
2	.264	.105																		
3	.323	.161	.071																	
4	.377	.200	.111	.050																
5	.425	.242	.137	.083	.036															
6	.468	.284	.165	.099	.063	.028														
7	.510	.327	.194	.113	.077	.046	.024													
8	.548	.367	.224	.129	.091	.056	.036	.020												
9	.579	.409	.256	.149	.101	.071	.044	.028	.016											
10	.609	.444	.288	.173	.123	.083	.054	.036	.020	.012										
11	.635	.480	.317	.200	.139	.103	.065	.046	.024	.014	.008									
12	.659	.510	.347	.220	.161	.121	.081	.056	.030	.020	.012	.004								
13	.683	.536	.373	.246	.173	.143	.099	.071	.038	.024	.016	.006	.002							
14	.708	.565	.393	.272	.190	.153	.123	.089	.048	.030	.020	.008	.004	.000						
15	.730	.593	.415	.290	.208	.167	.135	.111	.067	.038	.024	.010	.006	.000	.000					
16	.752	.619	.435	.310	.224	.185	.147	.125	.087	.054	.028	.012	.008	.000	.000	.000				
17	.772	.647	.454	.324	.242	.202	.163	.135	.099	.077	.040	.014	.010	.000	.000	.000	.000			
18	.788	.673	.476	.337	.256	.218	.179	.147	.105	.095	.058	.020	.012	.000	.000	.000	.000	.000		
19	.804	.694	.502	.351	.264	.238	.196	.159	.113	.101	.081	.032	.016	.000	.000	.000	.000	.000	.000	
20	.821	.714	.524	.367	.276	.250	.218	.175	.121	.107	.091	.050	.024	.002	.000	.000	.000	.000	.000	.000
21	.835	.732	.542	.381	.290	.264	.232	.198	.133	.113	.099	.058	.040	.008	.010	.000	.000	.000	.000	.000
22	.847	.750	.560	.395	.298	.280	.248	.210	.153	.123	.107	.065	.048	.022	.002	.000	.000	.000	.000	.000
23	.857	.766	.581	.409	.306	.288	.270	.224	.161	.141	.119	.071	.054	.028	.014	.000	.000	.000	.000	.000
24	.867	.780	.599	.427	.317	.296	.280	.240	.169	.149	.135	.083	.060	.020	.006	.000	.000	.000	.000	.000
25	.877	.794	.617	.442	.329	.304	.288	.262	.190	.157	.141	.099	.073	.040	.024	.010	.004	.000	.000	.000
26	.887	.806	.635	.458	.337	.317	.296	.270	.204	.175	.147	.103	.091	.052	.028	.012	.008	.002	.000	.000
27	.899	.819	.651	.474	.345	.323	.308	.278	.216	.185	.163	.107	.095	.073	.038	.014	.010	.006	.000	.000
28	.909	.831	.667	.492	.353	.329	.315	.290	.226	.198	.171	.119	.099	.079	.056	.022	.012	.008	.002	.000
29	.919	.843	.681	.508	.367	.337	.321	.298	.240	.208	.181	.127	.107	.085	.060	.040	.018	.010	.000	.000
30	.929	.853	.698	.520	.383	.347	.327	.306	.252	.222	.192	.135	.113	.093	.065	.044	.036	.014	.006	.000
31	.940	.863	.714	.534	.391	.365	.333	.313	.266	.234	.206	.143	.119	.099	.071	.048	.040	.030	.010	.006
32	.948	.875	.728	.550	.399	.373	.349	.319	.278	.248	.216	.155	.125	.105	.077	.052	.044	.034	.026	.000
33	.956	.885	.742	.567	.409	.381	.355	.335	.288	.260	.228	.165	.133	.111	.083	.056	.048	.038	.030	.012
34	.964	.895	.754	.585	.417	.391	.361	.341	.308	.270	.240	.175	.141	.115	.091	.060	.052	.042	.034	.018
35	.970	.907	.764	.603	.427	.399	.369	.347	.317	.292	.250	.185	.149	.119	.099	.065	.056	.046	.038	.022
36	.974	.915	.778	.623	.438	.407	.375	.353	.325	.300	.274	.194	.157	.123	.105	.071	.060	.050	.042	.026
37	.978	.919	.792	.645	.450	.415	.383	.357	.333	.308	.284	.216	.163	.127	.111	.077	.065	.054	.046	.030
38	.982	.923	.798	.675	.462	.425	.391	.361	.339	.317	.292	.228	.181	.129	.115	.085	.069	.058	.050	.034
39	.986	.927	.802	.700	.480	.435	.399	.365	.343	.323	.300	.238	.192	.141	.117	.093	.073	.063	.054	.038
40	.990	.931	.806	.712	.508	.448	.407	.369	.347	.329	.306	.248	.200	.147	.127	.097	.079	.067	.058	.042

TOTAL OBSERVATIONS 496

TABLE 7.3.b. P(W ≥ W0) 1 LAUNCH OPPORTUNITIES IN J PERIODS (W0 = 20 M/SEC).  
BASED ON MAXIMUM WIND SPEEDS IN THE 10-15 KM LAYER OVER CAPE KENNEDY, FLORIDA.  
PERIOD OF RECORD JANUARY 1956 - DECEMBER 1963.



CAPE KENNEDY, FLORIDA JULY  
SPEEDS GREATER THAN OR EQUAL TO 025 MPS

PC ( I CONSECUTIVE SUCCESSES IN J PERIODS )

J	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
1	.069																			
2	.103	.036																		
3	.137	.054	.018																	
4	.169	.073	.026	.010																
5	.200	.091	.034	.016	.004															
6	.226	.107	.042	.022	.008	.000														
7	.254	.121	.050	.028	.012	.000	.000													
8	.282	.135	.058	.034	.016	.000	.000	.000												
9	.308	.149	.069	.040	.020	.000	.000	.000	.000											
10	.333	.165	.077	.048	.024	.000	.000	.000	.000	.000										
11	.357	.181	.085	.056	.029	.000	.000	.000	.000	.000	.000									
12	.381	.198	.093	.063	.032	.000	.000	.000	.000	.000	.000	.000								
13	.401	.214	.101	.069	.036	.000	.000	.000	.000	.000	.000	.000	.000							
14	.421	.228	.109	.075	.040	.000	.000	.000	.000	.000	.000	.000	.000	.000						
15	.440	.240	.117	.081	.044	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000					
16	.458	.252	.125	.087	.048	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000				
17	.476	.264	.133	.093	.052	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000			
18	.492	.276	.141	.099	.056	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000		
19	.508	.286	.149	.105	.060	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	
20	.522	.296	.157	.111	.065	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
21	.536	.306	.165	.117	.069	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
22	.550	.315	.173	.123	.073	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
23	.560	.323	.181	.129	.077	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
24	.571	.329	.190	.135	.081	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
25	.581	.335	.198	.141	.085	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
26	.591	.341	.206	.147	.089	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
27	.601	.347	.214	.153	.093	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
28	.609	.353	.222	.159	.097	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
29	.617	.359	.230	.165	.101	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
30	.625	.365	.238	.171	.105	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
31	.631	.371	.246	.177	.109	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
32	.637	.377	.254	.183	.113	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
33	.643	.383	.262	.190	.117	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
34	.649	.389	.270	.196	.121	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
35	.655	.395	.276	.202	.125	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
36	.661	.401	.282	.206	.129	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
37	.665	.405	.288	.210	.133	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
38	.669	.409	.292	.214	.137	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
39	.671	.413	.296	.216	.141	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
40	.673	.417	.300	.218	.143	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000

TOTAL OBSERVATIONS 496

TABLE 7. 4. a.  $P(W \geq W^*)$  I CONSECUTIVE LAUNCH OPPORTUNITIES IN J PERIODS ( $W^* = 25$  M/SEC).  
BASED ON MAXIMUM WIND SPEEDS IN THE 10-15 KM LAYER OVER CAPE KENNEDY, FLORIDA.  
PERIOD OF RECORD JANUARY 1956 - DECEMBER 1953.

CAPF KENNEDY , FLORIDA JULY

SPEFDS GREATER THAN OR EQUAL TO 025 MPS

P ( I SUCCESSFS IN J PERIODS )

	I																			
J	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
1	.069																			
2	.103	.036																		
3	.137	.054	.018																	
4	.169	.075	.026	.010																
5	.200	.093	.038	.016	.004															
6	.226	.109	.050	.026	.008	.000														
7	.254	.121	.065	.034	.018	.000	.000													
8	.282	.135	.073	.048	.020	.004	.000	.000												
9	.308	.153	.083	.054	.032	.006	.002	.000	.000											
10	.333	.171	.097	.063	.036	.016	.004	.000	.000	.000										
11	.357	.188	.111	.073	.040	.020	.012	.000	.000	.000	.000									
12	.381	.204	.123	.085	.044	.024	.016	.004	.000	.000	.000	.000								
13	.401	.222	.135	.099	.048	.028	.020	.006	.002	.000	.000	.000	.000							
14	.421	.234	.151	.113	.052	.032	.024	.008	.004	.000	.000	.000	.000	.000						
15	.440	.248	.163	.131	.056	.036	.028	.010	.006	.000	.000	.000	.000	.000	.000					
16	.458	.260	.177	.145	.065	.040	.032	.012	.008	.000	.000	.000	.000	.000	.000	.000				
17	.476	.270	.192	.161	.071	.046	.036	.014	.010	.000	.000	.000	.000	.000	.000	.000	.000			
18	.492	.280	.202	.179	.079	.052	.040	.016	.012	.000	.000	.000	.000	.000	.000	.000	.000	.000		
19	.508	.290	.212	.194	.089	.060	.044	.018	.014	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	
20	.522	.302	.222	.206	.099	.071	.048	.020	.016	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
21	.536	.310	.236	.216	.111	.081	.052	.022	.018	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
22	.550	.319	.246	.230	.121	.093	.056	.024	.020	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
23	.560	.327	.256	.240	.135	.103	.063	.026	.022	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
24	.571	.333	.266	.250	.147	.113	.071	.028	.024	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
25	.581	.339	.276	.260	.159	.123	.077	.032	.026	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
26	.591	.345	.286	.270	.171	.133	.083	.034	.030	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
27	.601	.351	.296	.280	.183	.143	.089	.036	.032	.002	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
28	.609	.359	.304	.290	.192	.157	.095	.038	.034	.004	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
29	.617	.367	.313	.298	.202	.165	.107	.040	.036	.006	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
30	.625	.375	.321	.306	.212	.175	.115	.046	.038	.008	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
31	.631	.385	.329	.315	.222	.185	.123	.048	.044	.010	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
32	.637	.393	.339	.323	.232	.196	.129	.052	.046	.016	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
33	.643	.401	.345	.333	.242	.206	.135	.056	.048	.020	.002	.000	.000	.000	.000	.000	.000	.000	.000	.000
34	.649	.409	.351	.339	.254	.216	.141	.060	.050	.024	.004	.000	.000	.000	.000	.000	.000	.000	.000	.000
35	.655	.417	.357	.345	.260	.230	.147	.065	.052	.028	.006	.000	.000	.000	.000	.000	.000	.000	.000	.000
36	.661	.423	.363	.351	.266	.238	.157	.069	.054	.032	.008	.000	.000	.000	.000	.000	.000	.000	.000	.000
37	.665	.429	.367	.357	.272	.246	.165	.075	.056	.036	.010	.000	.000	.000	.000	.000	.000	.000	.000	.000
38	.669	.435	.371	.361	.278	.252	.175	.081	.058	.040	.012	.000	.000	.000	.000	.000	.000	.000	.000	.000
39	.671	.444	.375	.365	.282	.258	.183	.089	.060	.044	.014	.000	.000	.000	.000	.000	.000	.000	.000	.000
40	.673	.450	.381	.369	.286	.262	.192	.097	.063	.048	.016	.000	.000	.000	.000	.000	.000	.000	.000	.000

TOTAL OBSERVATIONS 496

TABLE 7. 4 b. P(N ≥ W) I LAUNCH OPPORTUNITIES IN J PERIODS (W = 25 M/SEC).  
 BASED ON MAXIMUM WIND SPEEDS IN THE 10-15 KM LAYER OVER CAPE KENNEDY, FLORIDA.

PERIOD OF RECORD JANUARY 1956 - DECEMBER 1963.

CAPF KENNEDY . FLORIDA JULY

SPEEDS GREATER THAN OR EQUAL TO 030 MPS

PC ( I CONSECUTIVE SUCCESSSES IN J PERIODS )

	I																			
J	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
1	.028																			
2	.040	.016																		
3	.050	.022	.010																	
4	.058	.024	.014	.006																
5	.067	.034	.018	.010	.002															
6	.075	.038	.022	.014	.004	.000														
7	.083	.042	.026	.018	.006	.000	.000													
8	.091	.046	.030	.022	.008	.000	.000	.000												
9	.103	.050	.034	.026	.010	.000	.000	.000	.000											
10	.115	.054	.038	.030	.012	.000	.000	.000	.000	.000										
11	.127	.058	.042	.034	.014	.000	.000	.000	.000	.000	.000									
12	.139	.063	.046	.038	.016	.000	.000	.000	.000	.000	.000	.000								
13	.151	.067	.050	.042	.018	.000	.000	.000	.000	.000	.000	.000	.000							
14	.163	.071	.054	.046	.020	.000	.000	.000	.000	.000	.000	.000	.000	.000						
15	.175	.075	.058	.050	.022	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000					
16	.188	.079	.063	.054	.024	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000				
17	.198	.083	.067	.058	.026	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000			
18	.208	.087	.071	.063	.028	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000		
19	.218	.091	.075	.067	.030	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	
20	.228	.095	.079	.071	.032	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
21	.238	.099	.083	.075	.034	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
22	.248	.103	.087	.079	.036	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
23	.258	.107	.091	.083	.038	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
24	.268	.111	.095	.087	.040	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
25	.278	.115	.099	.091	.042	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
26	.288	.119	.103	.095	.044	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
27	.298	.123	.107	.099	.046	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
28	.306	.127	.111	.103	.048	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
29	.315	.131	.115	.107	.050	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
30	.323	.135	.119	.111	.052	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
31	.331	.139	.123	.115	.054	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
32	.339	.143	.127	.119	.056	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
33	.347	.147	.131	.123	.058	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
34	.355	.151	.135	.127	.060	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
35	.363	.155	.139	.131	.063	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
36	.369	.159	.143	.135	.065	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
37	.375	.161	.147	.139	.067	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
38	.381	.163	.149	.143	.069	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
39	.387	.165	.151	.145	.071	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
40	.393	.167	.153	.147	.071	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000

TOTAL OBSERVATIONS 496

TABLE 7. 5. a. P(N ≥ W) I CONSECUTIVE LAUNCH OPPORTUNITIES IN J PERIODS (W = 30 M/SEC).  
 BASED ON MAXIMUM WIND SPEEDS IN THE 10-15 KM LAYER OVER CAPE KENNEDY, FLORIDA.  
 PERIOD OF RECORD JANUARY 1956 - DECEMBER 1963.

CAPE KENNEDY, FLORIDA JULY  
SPEEDS GREATER THAN OR EQUAL TO 030 MPS

P ( I SUCCESSES IN J PERIODS )

J	1	2	3	4	5	6	7	9	10	11	12	13	14	15	'6	17	18	19	20	
1	.028																			
2	.040	.016																		
3	.050	.024	.010																	
4	.058	.034	.014	.006																
5	.067	.040	.022	.010	.002															
6	.075	.046	.026	.018	.004	.000														
7	.083	.052	.030	.022	.010	.000	.000													
8	.091	.058	.034	.026	.012	.004	.000	.000												
9	.103	.065	.038	.030	.014	.006	.002	.000	.000											
10	.115	.071	.042	.034	.016	.008	.004	.000	.000	.000										
11	.127	.077	.046	.038	.018	.010	.006	.000	.000	.000	.000									
12	.139	.083	.050	.042	.020	.012	.008	.000	.000	.000	.000	.000								
13	.151	.089	.054	.046	.022	.014	.010	.000	.000	.000	.000	.000	.000							
14	.163	.095	.058	.050	.024	.016	.012	.000	.000	.000	.000	.000	.000	.000						
15	.175	.101	.063	.054	.026	.018	.014	.000	.000	.000	.000	.000	.000	.000	.000					
16	.188	.107	.067	.058	.028	.020	.016	.000	.000	.000	.000	.000	.000	.000	.000	.000				
17	.198	.115	.071	.063	.030	.022	.018	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000			
18	.208	.123	.075	.067	.032	.024	.020	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000		
19	.218	.129	.081	.071	.034	.026	.022	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	
20	.228	.135	.087	.075	.036	.028	.024	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
21	.238	.141	.093	.079	.038	.030	.026	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
22	.248	.147	.099	.083	.040	.032	.028	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
23	.258	.153	.105	.087	.042	.034	.030	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
24	.268	.159	.111	.091	.044	.036	.032	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
25	.278	.165	.117	.095	.046	.038	.034	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
26	.288	.171	.123	.099	.048	.040	.036	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
27	.298	.177	.129	.103	.050	.042	.038	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
28	.306	.183	.135	.107	.052	.044	.040	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
29	.315	.192	.141	.111	.054	.046	.042	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
30	.323	.200	.147	.115	.056	.048	.044	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
31	.331	.208	.153	.119	.058	.050	.046	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
32	.339	.216	.159	.123	.060	.052	.048	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
33	.347	.224	.165	.127	.063	.054	.050	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
34	.355	.232	.171	.131	.065	.056	.052	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
35	.363	.240	.177	.135	.067	.058	.054	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
36	.369	.248	.183	.139	.069	.060	.056	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
37	.375	.254	.190	.143	.071	.063	.058	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
38	.381	.260	.194	.147	.073	.065	.060	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
39	.387	.266	.198	.149	.075	.067	.063	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
40	.393	.272	.202	.151	.075	.069	.065	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000

TOTAL OBSERVATIONS 496

TABLE 7. 5.b. P(W ≥ W<sub>0</sub>) I LAUNCH OPPORTUNITIES IN J PERIODS (W<sub>0</sub> = 30 M/SEC).  
BASED ON MAXIMUM WIND SPEEDS IN THE 10-15 KM LAYER OVER CAPE KENNEDY, FLORIDA.  
PERIOD OF RECORD JANUARY 1956 - DECEMBER 1963.

CAPF KENNEDY , FLORIDA AUGUST  
 SPEFDS GREATER THAN OR FQUAL TO 010 MPS

PC ( I CONSECUTIVE SUCCESSES IN J PERIODS )

J	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
1	.754																			
2	.861	.643																		
3	.927	.724	.558																	
4	.952	.806	.629	.480																
5	.970	.871	.702	.536	.415															
6	.980	.903	.774	.593	.470	.357														
7	.988	.927	.835	.649	.524	.405	.304													
8	.992	.944	.869	.706	.579	.454	.339	.268												
9	.994	.960	.899	.752	.633	.502	.375	.294	.240											
10	.996	.970	.923	.780	.688	.550	.411	.323	.262	.214										
11	.998	.980	.946	.806	.736	.599	.448	.351	.284	.236	.190									
12	1.00	.986	.960	.833	.762	.647	.484	.381	.306	.258	.212	.165								
13	1.00	.990	.970	.855	.788	.688	.520	.411	.331	.280	.234	.185	.143							
14	1.00	.994	.976	.871	.813	.714	.556	.442	.355	.304	.256	.206	.163	.125						
15	1.00	.996	.980	.885	.833	.738	.589	.472	.377	.329	.290	.226	.183	.141	.111					
16	1.00	.998	.984	.897	.847	.760	.611	.504	.399	.351	.304	.248	.204	.157	.125	.099				
17	1.00	1.00	.988	.907	.861	.780	.633	.534	.423	.373	.327	.270	.226	.173	.139	.113	.087			
18	1.00	1.00	.992	.917	.873	.802	.653	.560	.448	.395	.349	.290	.248	.192	.153	.127	.099	.077		
19	1.00	1.00	.996	.927	.883	.823	.677	.587	.472	.417	.371	.310	.268	.210	.169	.141	.111	.089	.067	
20	1.00	1.00	.998	.938	.893	.841	.698	.615	.496	.440	.393	.331	.288	.226	.185	.157	.123	.101	.075	.060
21	1.00	1.00	1.00	.946	.903	.857	.718	.639	.520	.466	.415	.351	.308	.242	.202	.173	.137	.113	.083	.067
22	1.00	1.00	1.00	.952	.913	.873	.736	.661	.542	.488	.442	.371	.329	.258	.218	.190	.151	.127	.091	.073
23	1.00	1.00	1.00	.958	.921	.889	.752	.683	.565	.508	.468	.395	.349	.274	.234	.206	.165	.141	.101	.079
24	1.00	1.00	1.00	.963	.927	.903	.768	.704	.585	.528	.488	.419	.373	.290	.250	.222	.179	.155	.111	.087
25	1.00	1.00	1.00	.962	.933	.909	.782	.722	.605	.548	.508	.442	.397	.310	.266	.238	.194	.169	.121	.095
26	1.00	1.00	1.00	.964	.938	.915	.794	.738	.623	.567	.528	.462	.419	.331	.286	.254	.208	.183	.131	.103
27	1.00	1.00	1.00	.966	.942	.921	.802	.752	.643	.585	.548	.482	.442	.349	.306	.274	.222	.198	.141	.111
28	1.00	1.00	1.00	.968	.946	.925	.810	.762	.663	.603	.567	.502	.462	.367	.325	.294	.240	.212	.151	.119
29	1.00	1.00	1.00	.970	.950	.929	.819	.768	.681	.621	.587	.522	.482	.385	.343	.313	.258	.230	.161	.127
30	1.00	1.00	1.00	.972	.954	.933	.827	.774	.696	.639	.605	.540	.502	.401	.361	.331	.274	.248	.173	.135
31	1.00	1.00	1.00	.974	.958	.938	.835	.780	.706	.655	.623	.558	.522	.417	.379	.349	.290	.264	.185	.145
32	1.00	1.00	1.00	.976	.962	.942	.843	.786	.716	.667	.641	.575	.540	.433	.395	.367	.306	.280	.196	.155
33	1.00	1.00	1.00	.978	.966	.946	.851	.794	.726	.677	.655	.591	.558	.450	.411	.385	.323	.296	.206	.165
34	1.00	1.00	1.00	.980	.970	.950	.859	.802	.738	.688	.667	.605	.575	.466	.427	.401	.339	.313	.216	.175
35	1.00	1.00	1.00	.982	.974	.954	.867	.810	.750	.700	.677	.619	.589	.480	.444	.417	.355	.329	.226	.185
36	1.00	1.00	1.00	.984	.978	.958	.875	.819	.762	.712	.690	.631	.603	.492	.458	.433	.371	.345	.236	.196
37	1.00	1.00	1.00	.986	.982	.962	.883	.827	.774	.724	.702	.643	.617	.504	.470	.448	.387	.361	.246	.206
38	1.00	1.00	1.00	.988	.984	.966	.891	.835	.786	.738	.714	.655	.631	.516	.482	.460	.401	.377	.256	.216
39	1.00	1.00	1.00	.990	.986	.970	.899	.843	.798	.750	.728	.667	.643	.530	.494	.472	.415	.391	.266	.226
40	1.00	1.00	1.00	.992	.988	.972	.905	.851	.810	.762	.742	.681	.655	.544	.508	.484	.429	.405	.274	.236

TOTAL OBSERVATIONS 496

TABLE 8. 1.a.  $P(W \geq W^*)$  I CONSECUTIVE LAUNCH OPPORTUNITIES IN J PERIODS ( $W^* = 10$  M/SEC).  
 BASED ON MAXIMUM WIND SPEEDS IN THE 10-15 KM LAYER OVER CAPE KENNEDY, FLORIDA,  
 PERIOD OF RECORD JANUARY 1956 - DECEMBER 1963.

CAPE KENNEDY, FLORIDA AUGUST  
 SPEEDS GREATER THAN OR EQUAL TO 010 MPS

P ( I SUCCESSES IN J PERIODS )

	I																			
J	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
1	.754																			
2	.861	.643																		
3	.927	.766	.558																	
4	.952	.879	.685	.480																
5	.970	.917	.827	.609	.415															
6	.980	.948	.871	.782	.540	.357														
7	.988	.964	.917	.829	.732	.490	.304													
8	.992	.978	.944	.881	.782	.688	.417	.268												
9	.994	.988	.960	.923	.839	.742	.633	.371	.240											
10	.996	.992	.974	.944	.895	.802	.696	.581	.335	.214										
11	.998	.994	.980	.962	.925	.867	.760	.649	.534	.304	.190									
12	1.00	.996	.984	.970	.948	.911	.825	.720	.613	.494	.278	.165								
13	1.00	1.00	.988	.976	.956	.940	.883	.782	.600	.583	.458	.250	.143							
14	1.00	1.00	.994	.984	.964	.948	.921	.855	.742	.663	.552	.421	.226	.125						
15	1.00	1.00	.996	.992	.974	.956	.935	.903	.821	.710	.631	.528	.387	.202	.111					
16	1.00	1.00	.998	.994	.988	.962	.948	.925	.875	.794	.673	.609	.502	.349	.185	.099				
17	1.00	1.00	1.00	.996	.992	.978	.954	.942	.903	.853	.762	.647	.595	.466	.327	.171	.087			
18	1.00	1.00	1.00	1.00	.994	.986	.968	.950	.923	.885	.825	.740	.625	.546	.448	.304	.155	.077		
19	1.00	1.00	1.00	1.00	1.00	.992	.976	.962	.933	.913	.859	.808	.720	.589	.526	.425	.284	.141	.067	
20	1.00	1.00	1.00	1.00	1.00	1.00	.984	.972	.944	.927	.893	.841	.792	.688	.569	.506	.401	.266	.123	.060
21	1.00	1.00	1.00	1.00	1.00	1.00	.998	.978	.956	.935	.915	.877	.819	.770	.665	.550	.488	.377	.246	.109
22	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.994	.964	.946	.925	.905	.853	.800	.748	.647	.538	.468	.355	.226
23	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.998	.984	.954	.935	.917	.885	.833	.782	.732	.633	.524	.446	.333
24	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.992	.974	.946	.925	.903	.863	.817	.766	.718	.617	.510	.423
25	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.984	.966	.931	.913	.885	.849	.800	.750	.702	.603	.492
26	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.998	.976	.952	.917	.901	.871	.833	.786	.738	.681	.589
27	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.994	.962	.935	.909	.889	.857	.819	.774	.724	.665
28	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.982	.944	.929	.899	.877	.843	.806	.760	.710
29	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.996	.962	.938	.921	.887	.865	.831	.788	.732
30	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.998	.982	.952	.931	.909	.877	.857	.813	.776
31	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.986	.976	.942	.921	.899	.871	.845	.794
32	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.992	.982	.966	.931	.913	.891	.865	.825
33	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.996	.988	.974	.958	.921	.905	.883	.853
34	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.992	.980	.970	.946	.915	.897	.879
35	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.986	.974	.964	.935	.907	.893
36	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.998	.980	.970	.958	.923	.903
37	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.994	.976	.966	.950	.915
38	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.990	.972	.958	.944
39	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.986	.964	.954
40	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.978	.960

TOTAL OBSERVATIONS 496

TABLE 8. 1.b. P(W ≥ W\*) I LAUNCH OPPORTUNITIES IN J PERIODS (W\* = 10 M/SEC),  
 BASED ON MAXIMUM WIND SPEEDS IN THE 10-15 KM LAYER OVER CAPE KENNEDY, FLORIDA,  
 PERIOD OF RECORD JANUARY 1956 - DECEMBER 1963.

CAPE KENNEDY, FLORIDA AUGUST

SPEEDS GREATER THAN OR EQUAL TO 015 MPS

PC ( I CONSECUTIVE SUCCESSES IN J PERIODS )

J	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
1	.371																			
2	.498	.240																		
3	.589	.308	.167																	
4	.667	.379	.222	.115																
5	.732	.438	.278	.151	.081															
6	.778	.496	.333	.190	.107	.056														
7	.817	.540	.379	.228	.135	.075	.040													
8	.847	.579	.423	.266	.163	.095	.052	.030												
9	.871	.611	.458	.300	.192	.115	.067	.040	.022											
10	.893	.641	.488	.335	.218	.135	.081	.050	.028	.018										
11	.915	.671	.514	.365	.242	.153	.095	.060	.034	.024	.014									
12	.933	.700	.536	.395	.266	.171	.109	.071	.040	.031	.020	.010								
13	.948	.726	.558	.421	.286	.188	.123	.081	.046	.035	.026	.016	.006							
14	.958	.748	.579	.448	.304	.204	.137	.091	.052	.041	.032	.022	.010	.004						
15	.964	.770	.597	.474	.323	.220	.151	.101	.056	.048	.038	.028	.014	.008	.002					
16	.968	.792	.615	.498	.341	.236	.165	.111	.060	.052	.044	.034	.020	.012	.006	.000				
17	.972	.815	.633	.520	.359	.252	.179	.121	.065	.056	.048	.040	.022	.016	.010	.000	.000			
18	.976	.833	.653	.542	.375	.268	.194	.131	.069	.060	.052	.044	.026	.020	.014	.000	.000	.000		
19	.980	.851	.675	.565	.389	.284	.208	.141	.073	.065	.056	.048	.030	.024	.018	.000	.000	.000	.000	
20	.984	.871	.692	.587	.403	.300	.222	.153	.077	.069	.060	.052	.034	.028	.022	.000	.000	.000	.000	.000
21	.988	.887	.710	.609	.417	.315	.236	.165	.083	.073	.065	.056	.038	.032	.026	.000	.000	.000	.000	.000
22	.990	.901	.728	.629	.431	.329	.250	.177	.089	.079	.069	.060	.042	.036	.030	.000	.000	.000	.000	.000
23	.992	.913	.744	.647	.448	.343	.264	.190	.095	.085	.075	.065	.046	.040	.034	.000	.000	.000	.000	.000
24	.994	.919	.758	.665	.462	.357	.278	.202	.101	.091	.081	.071	.050	.044	.038	.000	.000	.000	.000	.000
25	.996	.925	.772	.677	.478	.375	.294	.214	.107	.097	.087	.077	.056	.048	.042	.000	.000	.000	.000	.000
26	.998	.931	.784	.690	.492	.393	.310	.228	.113	.103	.093	.083	.063	.052	.046	.000	.000	.000	.000	.000
27	1.00	.938	.796	.702	.504	.409	.329	.242	.119	.109	.099	.089	.069	.056	.050	.000	.000	.000	.000	.000
28	1.00	.944	.808	.714	.516	.425	.345	.258	.125	.115	.105	.095	.075	.060	.054	.000	.000	.000	.000	.000
29	1.00	.950	.821	.726	.528	.440	.361	.272	.131	.121	.111	.101	.081	.065	.058	.000	.000	.000	.000	.000
30	1.00	.956	.833	.740	.540	.454	.377	.286	.137	.127	.117	.107	.087	.069	.063	.000	.000	.000	.000	.000
31	1.00	.962	.845	.754	.554	.468	.391	.300	.143	.133	.123	.113	.093	.073	.067	.000	.000	.000	.000	.000
32	1.00	.968	.857	.768	.569	.484	.405	.315	.149	.139	.129	.119	.099	.077	.071	.000	.000	.000	.000	.000
33	1.00	.974	.869	.782	.583	.500	.421	.329	.155	.145	.135	.125	.105	.081	.075	.000	.000	.000	.000	.000
34	1.00	.978	.881	.794	.597	.516	.438	.345	.161	.151	.141	.131	.111	.085	.079	.000	.000	.000	.000	.000
35	1.00	.982	.893	.808	.611	.532	.454	.361	.169	.157	.147	.137	.117	.089	.083	.000	.000	.000	.000	.000
36	1.00	.984	.903	.821	.625	.550	.470	.377	.177	.165	.153	.143	.123	.093	.087	.000	.000	.000	.000	.000
37	1.00	.986	.911	.833	.639	.571	.488	.393	.185	.173	.161	.149	.129	.097	.091	.000	.000	.000	.000	.000
38	1.00	.988	.917	.843	.651	.591	.508	.411	.194	.181	.169	.157	.135	.101	.095	.000	.000	.000	.000	.000
39	1.00	.990	.923	.851	.663	.611	.528	.431	.204	.190	.177	.165	.143	.105	.099	.000	.000	.000	.000	.000
40	1.00	.992	.929	.857	.673	.631	.548	.452	.214	.200	.185	.173	.151	.111	.103	.000	.000	.000	.000	.000

TOTAL OBSERVATIONS 496

TABLE 8. 2.a.  $P(W \geq W^*)$  I CONSECUTIVE LAUNCH OPPORTUNITIES IN J PERIODS ( $W^* = 15$  M/SEC).  
 BASED ON MAXIMUM WIND SPEEDS IN THE 10-15 KM LAYER OVER CAPE KENNEDY, FLORIDA.  
 PERIOD OF RECORD JANUARY 1956 - DECEMBER 1963.

CAPF KENNEDY, FLORIDA AUGUST  
 SPEEDS GREATER THAN OR EQUAL TO 015 MPS

P ( I SUCCESSES IN J PERIODS )

	I																			
J	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
1	.371																			
2	.498	.240																		
3	.589	.347	.167																	
4	.667	.425	.260	.115																
5	.732	.504	.327	.188	.081															
6	.778	.573	.403	.240	.141	.056														
7	.817	.631	.466	.310	.179	.107	.040													
8	.847	.679	.522	.367	.242	.141	.079	.030												
9	.871	.722	.571	.423	.290	.198	.111	.058	.022											
10	.893	.754	.617	.472	.347	.238	.159	.085	.042	.018										
11	.915	.778	.661	.512	.399	.286	.194	.129	.058	.036	.014									
12	.933	.802	.702	.546	.448	.335	.238	.157	.093	.050	.030	.010								
13	.948	.825	.738	.583	.484	.383	.286	.196	.111	.081	.044	.024	.006							
14	.958	.845	.770	.617	.520	.421	.331	.246	.141	.095	.073	.038	.016	.004						
15	.964	.865	.794	.651	.554	.460	.367	.290	.183	.121	.083	.067	.030	.010	.002					
16	.968	.885	.817	.681	.585	.496	.401	.329	.228	.155	.105	.075	.058	.022	.006	.000				
17	.972	.897	.845	.712	.615	.524	.438	.361	.272	.188	.137	.093	.067	.050	.014	.000	.000			
18	.976	.909	.857	.756	.643	.552	.464	.395	.308	.230	.157	.125	.083	.058	.042	.000	.000	.000		
19	.980	.921	.869	.780	.690	.579	.492	.419	.345	.266	.192	.139	.115	.075	.050	.024	.000	.000	.000	
20	.984	.931	.883	.798	.716	.629	.518	.446	.373	.302	.220	.163	.129	.107	.067	.034	.018	.000	.000	.000
21	.988	.940	.897	.815	.736	.663	.569	.472	.397	.335	.250	.190	.147	.121	.099	.052	.026	.014	.000	.000
22	.990	.950	.907	.831	.756	.685	.607	.522	.419	.361	.282	.216	.173	.133	.113	.087	.042	.022	.008	.000
23	.992	.954	.919	.845	.774	.710	.629	.560	.468	.389	.304	.248	.196	.155	.123	.103	.075	.038	.016	.004
24	.994	.958	.927	.859	.790	.730	.655	.591	.502	.435	.335	.270	.224	.173	.141	.115	.089	.069	.032	.012
25	.996	.962	.933	.875	.802	.750	.675	.625	.528	.470	.379	.300	.248	.198	.155	.131	.103	.081	.060	.028
26	.998	.966	.940	.885	.821	.766	.698	.647	.556	.496	.425	.337	.276	.224	.173	.145	.117	.095	.073	.054
27	1.00	.970	.946	.895	.835	.786	.714	.669	.583	.516	.456	.381	.308	.254	.196	.161	.131	.105	.089	.067
28	1.00	.976	.952	.901	.853	.802	.732	.685	.611	.536	.480	.411	.351	.284	.224	.183	.145	.117	.101	.083
29	1.00	.978	.962	.907	.847	.823	.748	.702	.633	.560	.498	.438	.381	.323	.250	.212	.167	.127	.113	.097
30	1.00	.980	.968	.917	.879	.843	.766	.716	.651	.583	.524	.452	.411	.355	.286	.234	.194	.145	.121	.111
31	1.00	.982	.972	.927	.891	.863	.784	.732	.667	.599	.550	.476	.425	.389	.321	.264	.214	.169	.135	.119
32	1.00	.984	.976	.935	.903	.879	.808	.748	.683	.615	.549	.504	.448	.405	.363	.290	.242	.185	.157	.131
33	1.00	.986	.980	.944	.913	.891	.831	.772	.700	.627	.587	.528	.476	.425	.381	.339	.264	.210	.169	.153
34	1.00	.988	.982	.954	.921	.901	.847	.796	.724	.641	.599	.554	.500	.452	.401	.357	.317	.232	.188	.165
35	1.00	.990	.984	.960	.933	.911	.857	.817	.750	.661	.613	.569	.530	.474	.429	.375	.337	.284	.208	.179
36	1.00	.992	.986	.966	.940	.927	.867	.829	.774	.681	.633	.585	.552	.514	.452	.401	.355	.304	.256	.196
37	1.00	.994	.988	.970	.946	.935	.885	.843	.790	.704	.649	.609	.571	.526	.486	.425	.377	.323	.276	.238
38	1.00	.996	.990	.974	.950	.942	.899	.857	.815	.722	.661	.631	.595	.542	.510	.468	.401	.343	.294	.252
39	1.00	.998	.992	.978	.954	.946	.909	.869	.833	.754	.673	.643	.621	.567	.526	.496	.446	.367	.315	.266
40	1.00	1.00	.994	.982	.958	.950	.919	.877	.845	.778	.702	.657	.631	.593	.550	.518	.480	.411	.335	.282

TOTAL OBSERVATIONS 496

TABLE 8. 2.b. P(W ≥ W\*) I LAUNCH OPPORTUNITIES IN J PERIODS (W\* = 15 M/SEC).  
 BASED ON MAXIMUM WIND SPEEDS IN THE 10-15 KM LAYER OVER CAPE KENNEDY, FLORIDA.  
 PERIOD OF RECORD JANUARY 1956 - DECEMBER 1963.



CAPE KENNEDY , FLORIDA AUGUST

SPEEDS GREATER THAN OR EQUAL TO 020 MPS

PC ( I CONSECUTIVE SUCCESSES IN J PERIODS )

J	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
1	.135																			
2	.198	.073																		
3	.250	.105	.038																	
4	.300	.137	.054	.022																
5	.351	.165	.071	.030	.014															
6	.391	.194	.087	.038	.020	.008														
7	.427	.222	.105	.046	.026	.012	.004													
8	.462	.246	.123	.054	.032	.016	.006	.002												
9	.494	.268	.139	.063	.038	.020	.008	.004	.000											
10	.524	.290	.153	.069	.044	.024	.010	.006	.000	.000										
11	.554	.313	.167	.073	.050	.028	.012	.008	.000	.000	.000									
12	.583	.333	.181	.077	.054	.032	.014	.010	.000	.000	.000	.000								
13	.611	.353	.198	.081	.058	.034	.016	.012	.000	.000	.000	.000	.000							
14	.637	.373	.214	.085	.063	.036	.016	.014	.000	.000	.000	.000	.000	.000						
15	.663	.393	.230	.089	.067	.038	.016	.014	.000	.000	.000	.000	.000	.000	.000					
16	.685	.413	.244	.095	.071	.040	.016	.014	.000	.000	.000	.000	.000	.000	.000	.000				
17	.708	.431	.258	.101	.077	.042	.016	.014	.000	.000	.000	.000	.000	.000	.000	.000	.000			
18	.728	.452	.272	.107	.083	.046	.016	.014	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000		
19	.744	.466	.290	.113	.089	.050	.018	.014	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	
20	.758	.478	.306	.123	.095	.054	.020	.016	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
21	.770	.490	.323	.13	.103	.058	.022	.018	.002	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
22	.782	.502	.341	.143	.111	.063	.024	.020	.004	.002	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
23	.794	.516	.357	.155	.119	.071	.028	.022	.006	.004	.002	.000	.000	.000	.000	.000	.000	.000	.000	.000
24	.806	.530	.371	.167	.129	.077	.032	.024	.008	.006	.004	.002	.000	.000	.000	.000	.000	.000	.000	.000
25	.819	.542	.385	.179	.139	.085	.036	.026	.010	.008	.006	.004	.000	.000	.000	.000	.000	.000	.000	.000
26	.831	.554	.399	.192	.151	.093	.040	.028	.012	.010	.008	.006	.000	.000	.000	.000	.000	.000	.000	.000
27	.841	.567	.413	.204	.163	.103	.044	.030	.014	.012	.010	.008	.000	.000	.000	.000	.000	.000	.000	.000
28	.851	.579	.427	.216	.175	.113	.050	.032	.016	.014	.012	.010	.000	.000	.000	.000	.000	.000	.000	.000
29	.861	.591	.442	.228	.188	.123	.056	.034	.018	.016	.014	.012	.000	.000	.000	.000	.000	.000	.000	.000
30	.871	.603	.456	.240	.200	.133	.063	.036	.020	.018	.016	.014	.000	.000	.000	.000	.000	.000	.000	.000
31	.881	.617	.470	.252	.212	.143	.069	.038	.022	.020	.018	.016	.000	.000	.000	.000	.000	.000	.000	.000
32	.891	.631	.486	.264	.224	.153	.075	.040	.024	.022	.020	.018	.000	.000	.000	.000	.000	.000	.000	.000
33	.901	.645	.502	.278	.236	.163	.081	.042	.026	.024	.022	.020	.000	.000	.000	.000	.000	.000	.000	.000
34	.907	.659	.518	.292	.250	.173	.087	.044	.028	.026	.024	.022	.000	.000	.000	.000	.000	.000	.000	.000
35	.913	.673	.534	.306	.264	.185	.093	.046	.030	.028	.026	.024	.000	.000	.000	.000	.000	.000	.000	.000
36	.919	.688	.552	.321	.280	.198	.101	.048	.032	.030	.028	.026	.000	.000	.000	.000	.000	.000	.000	.000
37	.925	.700	.569	.337	.296	.210	.109	.052	.034	.032	.030	.028	.000	.000	.000	.000	.000	.000	.000	.000
38	.931	.712	.583	.353	.315	.222	.117	.056	.038	.034	.032	.030	.000	.000	.000	.000	.000	.000	.000	.000
39	.935	.724	.597	.369	.333	.234	.125	.060	.042	.036	.034	.032	.000	.000	.000	.000	.000	.000	.000	.000
40	.940	.736	.611	.385	.351	.246	.133	.065	.046	.038	.036	.034	.000	.000	.000	.000	.000	.000	.000	.000

TOTAL OBSERVATIONS 496

TABLE 8. 3.a.  $P(N \geq W)$  I CONSECUTIVE LAUNCH OPPORTUNITIES IN J PERIODS ( $W = 20$  M/SEC).  
 BASED ON MAXIMUM WIND SPEEDS IN THE 10-15 KM LAYER OVER CAPE KENNEDY, FLORIDA.  
 PERIOD OF RECORD JANUARY 1956 - DECEMBER 1963.

CAPE KENNEDY, FLORIDA AUGUST  
SPEEDS GREATER THAN OR EQUAL TO 020 MPS

P ( I SUCCESSES IN J PERIODS )

J	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
1	.135																			
2	.198	.073																		
3	.250	.119	.038																	
4	.300	.149	.067	.022																
5	.351	.181	.089	.038	.014															
6	.391	.224	.111	.050	.026	.008														
7	.427	.256	.145	.060	.036	.018	.004													
8	.462	.282	.171	.083	.042	.026	.012	.002												
9	.494	.310	.190	.105	.054	.030	.020	.008	.000											
10	.524	.337	.214	.115	.071	.038	.024	.016	.002	.000										
11	.554	.357	.240	.131	.079	.050	.030	.020	.008	.000	.000									
12	.583	.379	.262	.149	.089	.058	.038	.026	.012	.007	.000	.000								
13	.611	.399	.286	.165	.101	.067	.048	.030	.018	.004	.000	.000	.000							
14	.637	.419	.310	.183	.113	.075	.054	.038	.024	.006	.000	.000	.000	.000						
15	.663	.440	.331	.204	.127	.083	.063	.040	.032	.010	.000	.000	.000	.000	.000					
16	.685	.464	.351	.218	.143	.093	.071	.044	.034	.020	.000	.000	.000	.000	.000	.000				
17	.708	.484	.379	.234	.155	.107	.079	.048	.038	.022	.006	.000	.000	.000	.000	.000	.000			
18	.728	.504	.397	.266	.157	.119	.089	.052	.042	.024	.008	.004	.000	.000	.000	.000	.000	.000		
19	.744	.528	.413	.288	.196	.129	.099	.056	.046	.030	.012	.006	.002	.000	.000	.000	.000	.000	.000	
20	.758	.550	.433	.308	.218	.153	.107	.060	.050	.034	.016	.010	.004	.000	.000	.000	.000	.000	.000	.000
21	.770	.573	.452	.335	.236	.173	.125	.065	.054	.038	.020	.014	.008	.000	.000	.000	.000	.000	.000	.000
22	.782	.589	.474	.357	.262	.188	.143	.077	.058	.042	.024	.018	.012	.002	.000	.000	.000	.000	.000	.000
23	.794	.603	.496	.379	.284	.210	.153	.093	.069	.046	.028	.022	.016	.004	.002	.000	.000	.000	.000	.000
24	.806	.617	.514	.403	.302	.230	.171	.101	.085	.052	.032	.026	.020	.006	.004	.002	.000	.000	.000	.000
25	.819	.631	.530	.425	.325	.250	.190	.115	.095	.065	.036	.030	.024	.008	.006	.004	.000	.000	.000	.000
26	.831	.645	.546	.448	.345	.272	.208	.131	.105	.077	.042	.034	.028	.010	.008	.006	.000	.000	.000	.000
27	.841	.659	.560	.468	.369	.294	.226	.149	.117	.094	.052	.038	.032	.012	.010	.008	.000	.000	.000	.000
28	.851	.673	.577	.486	.389	.321	.246	.169	.129	.093	.058	.046	.036	.014	.012	.010	.000	.000	.000	.000
29	.861	.685	.593	.504	.407	.341	.268	.190	.143	.103	.065	.052	.042	.016	.014	.012	.002	.000	.000	.000
30	.871	.698	.607	.524	.427	.361	.284	.210	.159	.113	.075	.058	.048	.018	.016	.014	.004	.000	.000	.000
31	.881	.710	.619	.542	.450	.381	.302	.224	.175	.125	.085	.069	.054	.020	.018	.016	.006	.000	.000	.000
32	.891	.722	.631	.560	.470	.403	.323	.240	.185	.141	.093	.081	.065	.022	.020	.018	.008	.000	.000	.000
33	.901	.734	.643	.579	.490	.425	.343	.256	.200	.153	.105	.087	.079	.028	.022	.020	.010	.000	.000	.000
34	.907	.750	.655	.599	.508	.450	.365	.270	.216	.165	.119	.093	.085	.040	.026	.022	.012	.000	.000	.000
35	.913	.764	.669	.615	.532	.470	.389	.288	.230	.179	.131	.103	.091	.048	.034	.024	.014	.002	.000	.000
36	.919	.774	.685	.631	.550	.498	.407	.310	.248	.192	.145	.113	.099	.054	.040	.028	.016	.004	.002	.000
37	.925	.782	.702	.649	.567	.518	.431	.327	.272	.206	.157	.125	.109	.065	.046	.032	.018	.006	.004	.002
38	.931	.790	.716	.667	.583	.538	.450	.347	.288	.232	.171	.133	.121	.077	.052	.036	.020	.008	.006	.004
39	.935	.800	.728	.685	.599	.560	.468	.365	.302	.254	.194	.143	.127	.093	.063	.040	.022	.010	.008	.006
40	.940	.810	.738	.704	.613	.583	.490	.383	.319	.266	.222	.159	.137	.105	.075	.048	.024	.012	.010	.008

TOTAL OBSERVATIONS 496

TABLE 8. 3.b. P(W ≥ W\*) I LAUNCH OPPORTUNITIES IN J PERIODS (W\* = 20 M/SEC).  
BASED ON MAXIMUM WIND SPEEDS IN THE 10-15 KM LAYER OVER CAPE KENNEDY, FLORIDA.  
PERIOD OF RECORD JANUARY 1956 - DECEMBER 1963.

CAPE KENNEDY, FLORIDA AUGUST

SPEEDS GREATER THAN OR EQUAL TO 025 MPS

PC ( I CONSECUTIVE SUCCESSSES IN J PERIODS )

I

J	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
1	.042																			
2	.065	.018																		
3	.085	.028	.008																	
4	.103	.038	.012	.004																
5	.121	.048	.016	.008	.000															
6	.139	.053	.020	.012	.000	.000														
7	.155	.069	.024	.016	.000	.000	.000													
8	.171	.077	.028	.020	.000	.000	.000	.000												
9	.183	.085	.030	.024	.000	.000	.000	.000	.000											
10	.196	.091	.032	.026	.000	.000	.000	.000	.000	.000										
11	.210	.097	.034	.028	.000	.000	.000	.000	.000	.000	.000									
12	.224	.103	.036	.030	.000	.000	.000	.000	.000	.000	.000	.000								
13	.240	.109	.038	.032	.000	.000	.000	.000	.000	.000	.000	.000	.000							
14	.254	.117	.040	.034	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000						
15	.266	.125	.042	.036	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000					
16	.278	.133	.044	.038	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000				
17	.290	.141	.046	.040	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000			
18	.300	.149	.048	.042	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000		
19	.313	.157	.052	.044	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	
20	.323	.165	.056	.048	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
21	.333	.173	.060	.052	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
22	.347	.179	.065	.056	.004	.002	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
23	.361	.190	.069	.060	.006	.004	.002	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
24	.375	.200	.077	.065	.008	.006	.004	.002	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
25	.389	.210	.085	.069	.010	.008	.006	.004	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
26	.403	.220	.093	.073	.012	.010	.008	.006	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
27	.417	.232	.101	.077	.014	.012	.010	.008	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
28	.431	.244	.109	.081	.016	.014	.012	.010	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
29	.446	.256	.117	.085	.018	.016	.014	.012	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
30	.462	.268	.125	.089	.020	.018	.016	.014	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
31	.478	.282	.135	.093	.022	.020	.018	.016	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
32	.492	.296	.147	.099	.024	.022	.020	.018	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
33	.508	.310	.159	.107	.026	.024	.022	.020	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
34	.524	.327	.171	.115	.030	.026	.024	.022	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
35	.538	.343	.185	.123	.034	.030	.026	.024	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
36	.552	.359	.200	.131	.038	.034	.030	.026	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
37	.567	.377	.214	.139	.042	.038	.034	.028	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
38	.579	.395	.230	.147	.046	.042	.038	.030	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
39	.591	.411	.246	.154	.050	.046	.042	.032	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
40	.603	.427	.262	.163	.054	.050	.046	.034	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000

TOTAL OBSERVATIONS 496

TABLE 8. 4.a. P(W ≥ W<sub>0</sub>) I CONSECUTIVE LAUNCH OPPORTUNITIES IN J PERIODS (W<sub>0</sub> = 25 M/SEC).  
 BASED ON MAXIMUM WIND SPEEDS IN THE 10-15 KM LAYER OVER CAPE KENNEDY, FLORIDA.  
 PERIOD OF RECORD JANUARY 1956 - DECEMBER 1963.

CAPE KENNEDY, FLORIDA AUGUST

SPEEDS GREATER THAN OR EQUAL TO 025 MPS

P (I SUCCESSSES IN J PERIODS)

	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
1	.042																			
2	.065	.018																		
3	.085	.030	.008																	
4	.103	.042	.014	.004																
5	.121	.052	.022	.008	.000															
6	.139	.063	.030	.012	.000	.000														
7	.155	.073	.038	.016	.000	.000	.000													
8	.171	.081	.046	.020	.000	.000	.000	.000												
9	.183	.091	.052	.024	.000	.000	.000	.000	.000											
10	.196	.097	.060	.026	.000	.000	.000	.000	.000	.000										
11	.210	.103	.069	.028	.000	.000	.000	.000	.000	.000	.000									
12	.224	.109	.075	.032	.000	.000	.000	.000	.000	.000	.000	.000								
13	.240	.115	.079	.036	.000	.000	.000	.000	.000	.000	.000	.000	.000							
14	.254	.125	.083	.040	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000						
15	.266	.135	.089	.044	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000					
16	.278	.145	.093	.050	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000				
17	.290	.155	.099	.054	.002	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000			
18	.300	.167	.105	.060	.004	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000		
19	.313	.175	.115	.067	.008	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	
20	.323	.188	.121	.077	.012	.007	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
21	.333	.196	.131	.083	.020	.004	.002	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
22	.347	.204	.137	.093	.026	.008	.004	.002	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
23	.361	.216	.143	.097	.036	.012	.006	.004	.002	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
24	.375	.228	.153	.105	.044	.018	.008	.006	.004	.002	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
25	.389	.240	.163	.111	.052	.024	.010	.008	.006	.004	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
26	.403	.254	.173	.117	.060	.030	.012	.010	.008	.006	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
27	.417	.268	.185	.123	.069	.036	.014	.012	.010	.008	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
28	.431	.282	.198	.129	.077	.042	.016	.014	.012	.010	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
29	.446	.296	.212	.135	.083	.048	.018	.016	.014	.012	.002	.000	.000	.000	.000	.000	.000	.000	.000	.000
30	.462	.308	.228	.143	.089	.052	.020	.018	.016	.014	.004	.000	.000	.000	.000	.000	.000	.000	.000	.000
31	.478	.323	.242	.153	.097	.056	.022	.020	.018	.016	.006	.000	.000	.000	.000	.000	.000	.000	.000	.000
32	.492	.339	.258	.163	.105	.063	.024	.022	.020	.018	.008	.000	.000	.000	.000	.000	.000	.000	.000	.000
33	.508	.353	.276	.175	.113	.069	.026	.024	.022	.020	.010	.000	.000	.000	.000	.000	.000	.000	.000	.000
34	.524	.369	.294	.188	.121	.077	.028	.026	.024	.022	.012	.000	.000	.000	.000	.000	.000	.000	.000	.000
35	.538	.387	.315	.200	.129	.085	.032	.028	.026	.024	.014	.000	.000	.000	.000	.000	.000	.000	.000	.000
36	.552	.403	.335	.214	.137	.093	.038	.030	.028	.026	.016	.000	.000	.000	.000	.000	.000	.000	.000	.000
37	.567	.421	.357	.228	.147	.101	.044	.032	.030	.028	.018	.000	.000	.000	.000	.000	.000	.000	.000	.000
38	.579	.440	.373	.250	.155	.111	.050	.034	.032	.030	.020	.000	.000	.000	.000	.000	.000	.000	.000	.000
39	.591	.458	.389	.264	.171	.119	.058	.036	.034	.032	.022	.002	.000	.000	.000	.000	.000	.000	.000	.000
40	.603	.476	.405	.280	.179	.135	.065	.040	.036	.034	.024	.004	.002	.000	.000	.000	.000	.000	.000	.000

TOTAL OBSERVATIONS 496

TABLE 1. P (N ≥ N0) LAUNCH OPPORTUNITIES IN J PERIODS (N0 = 25 M/SEC).  
BASED ON MAXIMUM WIND SPEEDS IN THE 10-15 KM LAYER OVER CAPE KENNEDY, FLORIDA.

PERIOD OF RECORD JANUARY 1956 - DECEMBER 1963.

CAPE KENNEDY, FLORIDA AUGUST

SPFFDS GREATER THAN OR EQUAL TO 030 MPS

PC ( I CONSECUTIVE SUCCESSES IN J PERIODS )

	I																			
J	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
1	.012																			
2	.022	.002																		
3	.030	.004	.000																	
4	.038	.006	.000	.000																
5	.046	.008	.000	.000	.000															
6	.054	.010	.000	.000	.000	.000														
7	.063	.012	.000	.000	.000	.000	.000													
8	.071	.014	.000	.000	.000	.000	.000	.000												
9	.075	.016	.000	.000	.000	.000	.000	.000	.000											
10	.079	.018	.000	.000	.000	.000	.000	.000	.000	.000										
11	.085	.020	.000	.000	.000	.000	.000	.000	.000	.000	.000									
12	.091	.022	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000								
13	.097	.024	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000							
14	.103	.026	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000						
15	.109	.028	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000					
16	.115	.030	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000				
17	.121	.032	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000			
18	.127	.034	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000		
19	.131	.036	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	
20	.137	.038	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
21	.141	.042	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
22	.145	.046	.002	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
23	.151	.050	.004	.002	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
24	.157	.056	.006	.004	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
25	.163	.063	.008	.006	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
26	.169	.069	.010	.008	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
27	.175	.077	.012	.010	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
28	.181	.085	.014	.012	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
29	.188	.093	.016	.014	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
30	.194	.101	.018	.016	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
31	.202	.109	.020	.018	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
32	.210	.117	.022	.020	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
33	.227	.125	.024	.022	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
34	.230	.133	.026	.024	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
35	.240	.141	.028	.026	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
36	.252	.149	.030	.028	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
37	.264	.159	.032	.030	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
38	.276	.169	.036	.032	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
39	.288	.179	.040	.034	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
40	.300	.190	.044	.036	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000

TOTAL OBSERVATIONS 496

TABLE 2. 5. 4. P(W ≥ W\*) I CONSECUTIVE LAUNCH OPPORTUNITIES IN J PERIODS (W\* = 30 M/SEC).  
 BASED ON MAXIMUM WIND SPEEDS IN THE 10-15 KM LAYER OVER CAPE KENNEDY, FLORIDA.  
 PERIOD OF RECORD JANUARY 1956 - DECEMBER 1963.

CAPE KENNEDY, FLORIDA AUGUST  
 SPEEDS GREATER THAN OR EQUAL TO 030 MPS

P ( I SUCCESSES IN J PERIODS )

	I																			
J	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
1	.012																			
2	.022	.002																		
3	.030	.006	.000																	
4	.038	.008	.002	.000																
5	.046	.010	.004	.000	.000															
6	.054	.012	.006	.000	.000	.000														
7	.063	.014	.008	.000	.000	.000	.000													
8	.071	.016	.010	.000	.000	.000	.000	.000												
9	.075	.018	.012	.000	.000	.000	.000	.000	.000											
10	.079	.020	.014	.000	.000	.000	.000	.000	.000	.000										
11	.085	.022	.016	.000	.000	.000	.000	.000	.000	.000	.000									
12	.091	.024	.018	.000	.000	.000	.000	.000	.000	.000	.000	.000								
13	.097	.026	.020	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000							
14	.103	.028	.022	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000						
15	.109	.030	.024	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000					
16	.115	.032	.026	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000				
17	.121	.034	.028	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000			
18	.127	.036	.030	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000		
19	.131	.040	.032	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	
20	.137	.044	.034	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
21	.141	.050	.036	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
22	.145	.056	.042	.002	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
23	.151	.063	.046	.006	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
24	.157	.071	.050	.010	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
25	.163	.079	.054	.014	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
26	.169	.089	.058	.018	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
27	.175	.099	.065	.022	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
28	.181	.109	.071	.026	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
29	.188	.117	.077	.030	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
30	.194	.125	.083	.034	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
31	.202	.133	.089	.038	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
32	.210	.141	.095	.042	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
33	.220	.149	.101	.046	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
34	.230	.157	.107	.050	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
35	.240	.167	.113	.054	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
36	.252	.177	.119	.058	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
37	.264	.190	.125	.063	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
38	.276	.202	.133	.067	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
39	.288	.212	.143	.071	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
40	.300	.222	.155	.075	.002	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000

TOTAL OBSERVATIONS 496

TABLE 8. 5. b. P(N ≥ W) I LAUNCH OPPORTUNITIES IN J PERIODS (W = 30 M/SEC).  
 BASED ON MAXIMUM WIND SPEEDS IN THE 10-15 KM LAYER OVER CAPE KENNEDY, FLORIDA.  
 PERIOD OF RECORD JANUARY 1956 - DECEMBER 1963.

CAPF KENNEDY . FLORIDA SEPTEMBER

SPEFDS GREATER THAN OR EQUAL TO 010 MPS

PC ( I CONSECUTIVE SUCCESSES IN J PERIODS )

J	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
1	.835																			
2	.919	.754																		
3	.954	.815	.654																	
4	.973	.871	.748	.646																
5	.985	.904	.798	.696	.602															
6	.996	.938	.850	.744	.650	.560														
7	1.00	.963	.890	.794	.696	.606	.521													
8	1.00	.979	.925	.846	.744	.650	.567	.481												
9	1.00	.992	.952	.885	.794	.696	.610	.525	.444											
10	1.00	.998	.971	.917	.844	.744	.656	.567	.481	.415										
11	1.00	1.00	.985	.944	.879	.792	.704	.610	.519	.444	.390									
12	1.00	1.00	.994	.960	.910	.838	.752	.656	.558	.481	.423	.365								
13	1.00	1.00	.998	.975	.938	.875	.798	.702	.600	.517	.456	.394	.342							
14	1.00	1.00	1.00	.983	.956	.906	.844	.746	.642	.554	.492	.423	.369	.321						
15	1.00	1.00	1.00	.988	.973	.935	.879	.790	.683	.592	.529	.454	.396	.346	.302					
16	1.00	1.00	1.00	.990	.983	.956	.910	.831	.725	.629	.567	.488	.425	.371	.327	.283				
17	1.00	1.00	1.00	.992	.988	.975	.940	.865	.765	.667	.604	.521	.456	.398	.352	.306	.267			
18	1.00	1.00	1.00	.994	.990	.983	.960	.894	.804	.704	.642	.554	.488	.427	.379	.329	.290	.250		
19	1.00	1.00	1.00	.996	.992	.988	.975	.921	.838	.742	.679	.588	.519	.456	.406	.352	.313	.271	.235	
20	1.00	1.00	1.00	.998	.994	.990	.983	.938	.865	.779	.717	.621	.550	.485	.433	.375	.335	.292	.254	.223
21	1.00	1.00	1.00	1.00	.996	.992	.988	.952	.890	.810	.754	.654	.591	.515	.460	.398	.358	.313	.273	.242
22	1.00	1.00	1.00	1.00	.998	.994	.990	.963	.908	.840	.788	.688	.613	.544	.488	.421	.381	.333	.292	.260
23	1.00	1.00	1.00	1.00	1.00	.996	.992	.969	.925	.867	.819	.717	.644	.573	.515	.444	.404	.354	.310	.279
24	1.00	1.00	1.00	1.00	1.00	.998	.994	.973	.938	.888	.848	.746	.671	.602	.542	.467	.427	.375	.329	.298
25	1.00	1.00	1.00	1.00	1.00	1.00	.996	.977	.946	.906	.875	.773	.698	.627	.569	.490	.450	.396	.348	.317
26	1.00	1.00	1.00	1.00	1.00	1.00	.998	.981	.954	.921	.896	.800	.725	.652	.592	.513	.473	.417	.367	.335
27	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.985	.960	.931	.915	.827	.750	.677	.615	.531	.496	.438	.385	.354
28	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.990	.967	.940	.929	.850	.775	.702	.638	.550	.515	.458	.404	.373
29	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.994	.973	.948	.938	.871	.800	.725	.660	.569	.533	.475	.423	.392
30	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.996	.979	.956	.946	.888	.821	.748	.683	.588	.552	.492	.440	.410
31	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.998	.985	.963	.954	.900	.842	.771	.704	.606	.571	.508	.456	.427
32	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.990	.969	.963	.913	.858	.782	.725	.625	.590	.525	.473	.444
33	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.994	.975	.969	.925	.871	.813	.746	.642	.608	.542	.490	.460
34	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.996	.981	.975	.938	.883	.829	.765	.658	.627	.558	.506	.477
35	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.998	.985	.981	.948	.896	.842	.783	.675	.644	.575	.523	.494
36	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.990	.985	.958	.910	.854	.798	.690	.660	.592	.540	.510
37	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.994	.990	.967	.921	.869	.810	.704	.677	.608	.556	.527
38	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.996	.994	.975	.929	.883	.825	.717	.692	.625	.573	.544
39	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.998	.996	.983	.938	.894	.840	.729	.706	.642	.590	.560
40	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.998	.988	.946	.904	.854	.742	.721	.656	.606	.577	

TOTAL OBSERVATIONS 480

TABLE 9. 1., P(N ≥ W) I CONSECUTIVE LAUNCH OPPORTUNITIES IN J PERIODS (W = 10 M/SEC).  
 BASED ON MAXIMUM WIND SPEEDS IN THE 10-15 KM LAYER OVER CAPE KENNEDY, FLORIDA.  
 PERIOD OF RECORD JANUARY 1956 - DECEMBER 1963.

CAPE KENNEDY, FLORIDA SEPTEMBER  
SPEEDS GREATER THAN OR EQUAL TO 10 MPS

P ( I SUCCESSSES IN J PERIODS )

	I																			
J	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
1	.835																			
2	.919	.754																		
3	.954	.863	.694																	
4	.973	.910	.821	.646																
5	.985	.946	.883	.775	.602															
6	.996	.967	.927	.850	.740	.560														
7	1.00	.988	.950	.902	.827	.704	.521													
8	1.00	1.00	.977	.929	.885	.802	.671	.481												
9	1.00	1.00	1.00	.963	.910	.871	.779	.635	.444											
10	1.00	1.00	1.00	1.00	.944	.896	.858	.756	.594	.418										
11	1.00	1.00	1.00	1.00	.996	.929	.883	.846	.727	.554	.390									
12	1.00	1.00	1.00	1.00	.998	.992	.919	.871	.831	.694	.531	.365								
13	1.00	1.00	1.00	1.00	1.00	.994	.990	.908	.856	.804	.673	.500	.342							
14	1.00	1.00	1.00	1.00	1.00	.998	.992	.988	.898	.833	.788	.650	.471	.321						
15	1.00	1.00	1.00	1.00	1.00	1.00	.996	.990	.985	.883	.813	.773	.617	.450	.302					
16	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.994	.988	.983	.863	.798	.746	.594	.431	.283				
17	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.992	.985	.977	.848	.775	.721	.577	.410	.267			
18	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.990	.983	.971	.827	.754	.702	.558	.392	.250		
19	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.988	.981	.958	.806	.740	.679	.542	.371	.235	
20	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.985	.944	.790	.721	.665	.525	.348	.223	
21	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.981	.965	.931	.773	.708	.650	.502	.329
22	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.971	.952	.921	.763	.694	.635	.477
23	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.994	.960	.942	.915	.750	.679	.617
24	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.998	.983	.956	.933	.904	.738	.665
25	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.990	.979	.952	.919	.900	.725
26	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.996	.985	.977	.938	.917	.894
27	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.992	.981	.965	.933	.913
28	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.998	.990	.971	.960	.931
29	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.996	.983	.967	.956
30	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.990	.981	.963
31	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.998	.988	.979
32	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.996	.985
33	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.994
34	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
35	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
36	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
37	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
38	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
39	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
40	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00

TOTAL OBSERVATIONS 480

TABLE 9. 1.b. P(W ≥ W\*) I LAUNCH OPPORTUNITIES IN J PERIODS (W\* = 10 M/SEC).  
BASED ON MAXIMUM WIND SPEEDS IN THE 10-15 KM LAYER OVER CAPE KENNEDY, FLORIDA.

PERIOD OF RECORD JANUARY 1956 - DECEMBER 1963.



CAPE KENNEDY, FLORIDA SEPTEMBER  
SPEEDS GREATER THAN OR EQUAL TO 015 MPS

PC ( I CONSECUTIVE SUCCESSES IN J PERIODS )

	I																			
J	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
1	.575																			
2	.665	.490																		
3	.729	.560	.423																	
4	.779	.629	.483	.367																
5	.819	.683	.542	.415	.323															
6	.854	.729	.600	.460	.369	.281														
7	.881	.767	.652	.506	.413	.321	.246													
8	.910	.798	.698	.554	.456	.358	.281	.215												
9	.933	.829	.735	.598	.502	.396	.315	.248	.185											
10	.952	.856	.771	.640	.548	.435	.348	.281	.208	.167										
11	.969	.881	.804	.679	.588	.475	.383	.315	.231	.190	.146									
12	.981	.904	.835	.715	.627	.513	.419	.350	.254	.213	.167	.127								
13	.990	.925	.863	.752	.667	.546	.452	.385	.279	.235	.188	.146	.110							
14	.996	.940	.888	.781	.706	.581	.485	.419	.304	.260	.208	.165	.127	.096						
15	1.00	.954	.913	.808	.744	.619	.517	.452	.329	.285	.231	.183	.144	.110	.083					
16	1.00	.963	.931	.831	.773	.652	.552	.488	.354	.310	.254	.204	.160	.125	.094	.075				
17	1.00	.967	.950	.856	.800	.683	.585	.523	.381	.335	.277	.225	.179	.140	.104	.085	.069			
18	1.00	.971	.960	.875	.825	.708	.617	.558	.410	.360	.300	.246	.198	.156	.115	.096	.075	.067		
19	1.00	.975	.967	.892	.850	.731	.648	.594	.438	.385	.323	.267	.217	.173	.127	.106	.081	.073	.065	
20	1.00	.977	.973	.904	.867	.752	.675	.625	.465	.410	.346	.288	.235	.190	.140	.119	.088	.079	.071	.063
21	1.00	.979	.975	.915	.883	.773	.700	.656	.490	.433	.369	.308	.254	.206	.152	.131	.096	.085	.077	.067
22	1.00	.981	.977	.923	.896	.790	.723	.683	.513	.454	.392	.329	.272	.223	.165	.144	.104	.094	.083	.071
23	1.00	.983	.979	.931	.904	.806	.746	.708	.535	.475	.410	.350	.292	.240	.177	.156	.113	.102	.092	.075
24	1.00	.985	.981	.940	.913	.819	.765	.731	.556	.494	.429	.369	.310	.256	.190	.169	.121	.110	.100	.081
25	1.00	.988	.983	.948	.919	.831	.781	.754	.575	.513	.450	.385	.327	.273	.202	.181	.129	.119	.108	.088
26	1.00	.990	.985	.956	.925	.842	.796	.771	.592	.529	.469	.404	.344	.290	.215	.194	.138	.127	.117	.094
27	1.00	.992	.988	.965	.931	.852	.808	.788	.610	.544	.488	.423	.360	.306	.227	.206	.146	.135	.125	.100
28	1.00	.994	.990	.973	.938	.863	.821	.800	.629	.558	.504	.440	.377	.325	.240	.219	.154	.144	.133	.106
29	1.00	.996	.992	.979	.944	.873	.831	.813	.648	.573	.521	.456	.394	.342	.254	.231	.163	.152	.142	.113
30	1.00	.998	.994	.983	.952	.883	.842	.825	.667	.588	.535	.473	.410	.358	.269	.246	.171	.160	.150	.119
31	1.00	1.00	.996	.988	.956	.896	.852	.835	.685	.602	.550	.488	.429	.375	.281	.260	.181	.169	.158	.125
32	1.00	1.00	.998	.992	.960	.906	.865	.846	.704	.617	.565	.500	.448	.392	.294	.275	.192	.179	.167	.131
33	1.00	1.00	1.00	.996	.965	.915	.875	.858	.721	.631	.579	.513	.465	.408	.306	.288	.202	.190	.177	.138
34	1.00	1.00	1.00	1.00	.969	.923	.885	.869	.740	.646	.594	.525	.479	.425	.319	.300	.213	.200	.188	.146
35	1.00	1.00	1.00	1.00	.973	.931	.894	.879	.756	.663	.608	.538	.494	.440	.331	.313	.223	.210	.198	.154
36	1.00	1.00	1.00	1.00	.975	.938	.902	.890	.773	.677	.627	.550	.508	.454	.344	.325	.233	.221	.208	.163
37	1.00	1.00	1.00	1.00	.977	.942	.908	.898	.790	.692	.644	.567	.523	.469	.354	.338	.244	.231	.219	.171
38	1.00	1.00	1.00	1.00	.979	.946	.913	.904	.806	.706	.660	.581	.542	.483	.365	.350	.254	.242	.229	.179
39	1.00	1.00	1.00	1.00	.981	.950	.917	.908	.819	.723	.677	.596	.558	.502	.375	.360	.265	.252	.240	.188
40	1.00	1.00	1.00	1.00	.983	.954	.921	.913	.831	.738	.696	.610	.575	.519	.390	.371	.275	.263	.250	.196

TOTAL OBSERVATIONS 480

TABLE 2. 2. a. P(W ≥ W\*) I CONSECUTIVE LAUNCH OPPORTUNITIES IN J PERIODS (W\* = 15 M/SEC).  
BASED ON MAXIMUM WIND SPEEDS IN THE 10-15 KM LAYER OVER CAPE KENNEDY, FLORIDA.  
PERIOD OF RECORD JANUARY 1956 - DECEMBER 1963.

CAPE KENNEDY , FLORIDA SEPTEMBER

SPEFDS GREATER THAN OR EQUAL TO 015 MPS

P ( I SUCCESSES IN J PERIODS )

	I																			
J	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
1	.575																			
2	.665	.490																		
3	.729	.585	.423																	
4	.779	.654	.523	.367																
5	.819	.710	.600	.458	.323															
6	.854	.750	.669	.535	.413	.281														
7	.881	.790	.715	.610	.488	.365	.246													
8	.910	.821	.756	.665	.567	.429	.329	.215												
9	.933	.852	.792	.708	.625	.510	.388	.298	.185											
10	.952	.879	.827	.748	.673	.569	.473	.352	.260	.167										
11	.969	.902	.858	.788	.713	.621	.529	.442	.308	.240	.146									
12	.981	.923	.888	.825	.752	.663	.583	.496	.398	.285	.219	.127								
13	.990	.942	.913	.858	.796	.702	.627	.550	.444	.379	.263	.200	.110							
14	.996	.956	.933	.890	.831	.752	.665	.598	.494	.421	.360	.242	.179	.096						
15	1.00	.965	.952	.917	.869	.790	.721	.631	.540	.475	.398	.342	.221	.160	.083					
16	1.00	.973	.960	.944	.900	.835	.760	.688	.565	.525	.456	.375	.323	.200	.142	.075				
17	1.00	.977	.969	.954	.933	.873	.806	.731	.615	.548	.510	.438	.352	.304	.175	.131	.069			
18	1.00	.981	.973	.965	.946	.917	.844	.779	.658	.592	.533	.494	.415	.333	.279	.158	.119	.067		
19	1.00	.983	.977	.971	.958	.933	.890	.821	.704	.638	.571	.519	.471	.400	.310	.254	.142	.110	.065	
20	1.00	.985	.979	.975	.969	.948	.913	.867	.750	.681	.617	.554	.498	.456	.381	.290	.223	.129	.106	.063
21	1.00	.988	.981	.977	.973	.963	.933	.892	.798	.727	.658	.602	.531	.485	.440	.363	.258	.198	.121	.102
22	1.00	.990	.983	.979	.975	.971	.950	.919	.827	.773	.702	.642	.579	.521	.471	.423	.329	.233	.181	.115
23	1.00	.992	.985	.981	.977	.975	.963	.940	.860	.802	.746	.681	.615	.571	.508	.456	.394	.302	.213	.165
24	1.00	.994	.988	.983	.979	.977	.967	.958	.892	.833	.777	.719	.648	.604	.563	.496	.433	.369	.277	.192
25	1.00	.996	.990	.985	.981	.979	.971	.965	.921	.867	.808	.748	.677	.635	.598	.552	.481	.413	.340	.250
26	1.00	.998	.992	.988	.983	.981	.975	.969	.938	.898	.848	.777	.702	.658	.629	.592	.540	.469	.381	.310
27	1.00	1.00	.994	.990	.985	.983	.979	.973	.946	.917	.888	.821	.727	.679	.648	.623	.585	.527	.444	.350
28	1.00	1.00	.998	.992	.988	.985	.983	.977	.954	.925	.910	.865	.773	.704	.665	.638	.617	.579	.504	.413
29	1.00	1.00	1.00	.996	.990	.988	.985	.981	.963	.931	.923	.897	.823	.750	.690	.648	.631	.610	.567	.475
30	1.00	1.00	1.00	1.00	.994	.990	.988	.985	.971	.938	.931	.906	.852	.800	.738	.669	.642	.625	.600	.535
31	1.00	1.00	1.00	1.00	1.00	.994	.990	.988	.979	.944	.938	.919	.875	.831	.788	.717	.658	.635	.619	.575
32	1.00	1.00	1.00	1.00	1.00	1.00	.994	.990	.985	.950	.944	.927	.894	.852	.823	.767	.704	.648	.629	.600
33	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.994	.990	.956	.950	.937	.906	.879	.848	.808	.750	.692	.640	.615
34	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.994	.965	.954	.944	.919	.894	.873	.833	.796	.733	.681	.629
35	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.971	.963	.950	.931	.906	.890	.860	.823	.781	.717	.675
36	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.981	.967	.960	.940	.919	.902	.881	.852	.808	.763	.708
37	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.983	.975	.967	.952	.929	.915	.898	.873	.840	.790	.732
38	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.985	.979	.973	.963	.944	.925	.910	.894	.860	.823	.779
39	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.988	.981	.977	.969	.956	.940	.921	.906	.885	.844	.815
40	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.990	.983	.979	.975	.965	.952	.935	.917	.900	.871	.835

TOTAL OBSERVATIONS 480

TABLE 9.2b. P(W ≥ W\*) I LAUNCH OPPORTUNITIES IN J PERIODS (W\* = 15 M/SEC).  
BASED ON MAXIMUM WIND SPEEDS IN THE 10-15 KM LAYER OVER CAPE KENNEDY, FLORIDA.

PERIOD OF RECORD JANUARY 1956 - DECEMBER 1963.

CAPE KENNEDY, FLORIDA SEPTEMBER

SPEEDS GREATER THAN OR EQUAL TO 020 MPS

PC ( I CONSECUTIVE SUCCESSES IN J PERIODS )

J	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
1	.333																			
2	.425	.244																		
3	.498	.300	.190																	
4	.567	.358	.240	.142																
5	.629	.408	.292	.179	.106															
6	.681	.454	.344	.217	.140	.075														
7	.723	.502	.392	.254	.173	.100	.052													
8	.760	.550	.440	.292	.206	.125	.073	.033												
9	.798	.590	.488	.329	.240	.150	.094	.046	.023											
10	.829	.635	.533	.369	.275	.175	.115	.058	.031	.017										
11	.860	.681	.577	.408	.310	.202	.135	.071	.040	.023	.010									
12	.892	.723	.623	.448	.346	.231	.158	.083	.048	.029	.017	.004								
13	.919	.765	.667	.485	.383	.258	.183	.098	.056	.035	.023	.008	.000							
14	.942	.802	.706	.523	.421	.288	.208	.115	.067	.042	.029	.013	.000	.000						
15	.958	.831	.746	.560	.454	.317	.233	.131	.079	.050	.035	.017	.000	.000	.000					
16	.969	.860	.781	.594	.488	.346	.258	.150	.092	.060	.044	.021	.000	.000	.000	.000				
17	.975	.881	.808	.629	.519	.375	.283	.169	.104	.071	.054	.025	.000	.000	.000	.000	.000			
18	.979	.896	.835	.660	.550	.402	.308	.188	.117	.081	.065	.031	.000	.000	.000	.000	.000	.000		
19	.983	.908	.850	.690	.581	.431	.331	.206	.129	.092	.075	.038	.002	.000	.000	.000	.000	.000	.000	
20	.988	.921	.863	.713	.608	.458	.356	.223	.142	.102	.085	.044	.004	.002	.000	.000	.000	.000	.000	.000
21	.992	.931	.875	.733	.633	.485	.381	.242	.152	.113	.096	.050	.006	.004	.002	.000	.000	.000	.000	.000
22	.996	.942	.888	.754	.656	.506	.404	.260	.165	.121	.106	.056	.008	.006	.004	.002	.000	.000	.000	.010
23	1.00	.950	.898	.773	.677	.527	.425	.279	.177	.131	.115	.063	.010	.008	.006	.004	.002	.000	.000	.000
24	1.00	.958	.906	.790	.696	.546	.444	.296	.190	.142	.125	.067	.013	.010	.008	.006	.004	.002	.000	.000
25	1.00	.967	.915	.804	.715	.560	.463	.313	.202	.152	.135	.071	.015	.013	.010	.008	.006	.004	.002	.000
26	1.00	.973	.923	.819	.727	.575	.479	.329	.215	.163	.146	.075	.017	.015	.013	.010	.008	.006	.004	.002
27	1.00	.979	.931	.835	.744	.585	.496	.346	.227	.173	.158	.079	.019	.017	.015	.013	.010	.008	.006	.004
28	1.00	.983	.938	.852	.760	.604	.510	.360	.240	.183	.169	.085	.021	.019	.017	.015	.013	.010	.008	.006
29	1.00	.988	.946	.867	.777	.604	.525	.375	.252	.194	.179	.094	.025	.021	.019	.017	.015	.013	.010	.008
30	1.00	.992	.952	.881	.794	.615	.538	.390	.265	.204	.190	.100	.031	.025	.021	.019	.017	.015	.013	.010
31	1.00	.994	.958	.896	.810	.625	.550	.404	.277	.215	.200	.106	.038	.031	.025	.021	.019	.017	.015	.013
32	1.00	.996	.963	.908	.827	.638	.563	.419	.290	.225	.210	.113	.044	.038	.031	.025	.021	.019	.017	.015
33	1.00	.998	.967	.919	.844	.648	.577	.433	.302	.235	.221	.119	.050	.044	.038	.031	.025	.021	.019	.017
34	1.00	1.00	.971	.929	.858	.658	.592	.450	.315	.246	.231	.125	.056	.050	.044	.038	.031	.025	.021	.019
35	1.00	1.00	.975	.935	.873	.667	.606	.467	.329	.254	.242	.131	.063	.056	.050	.044	.038	.029	.025	.021
36	1.00	1.00	.977	.942	.885	.675	.619	.483	.344	.269	.252	.138	.069	.063	.056	.050	.044	.033	.029	.025
37	1.00	1.00	.979	.946	.894	.683	.631	.498	.358	.281	.265	.144	.075	.069	.063	.056	.050	.038	.033	.029
38	1.00	1.00	.981	.948	.900	.692	.644	.513	.371	.294	.277	.152	.081	.075	.069	.063	.056	.042	.038	.033
39	1.00	1.00	.983	.950	.906	.698	.656	.527	.385	.306	.290	.160	.090	.081	.075	.069	.063	.046	.042	.038
40	1.00	1.00	.985	.952	.910	.704	.669	.540	.400	.321	.302	.169	.098	.090	.081	.075	.069	.050	.046	.042

TOTAL OBSERVATIONS 480

TABLE 9. 3.a.  $P(W \geq W^*)$  I CONSECUTIVE LAUNCH OPPORTUNITIES IN J PERIODS ( $W^* = 20$  M/SEC).  
 BASED ON MAXIMUM WIND SPEEDS IN THE 10-15 KM LAYER OVER CAPE KENNEDY, FLORIDA.

PERIOD OF RECORD JANUARY 1956 - DECEMBER 1963.

CAPE KENNEDY, FLORIDA SEPTEMBER  
SPEEDS GREATER THAN OR EQUAL TO 020 MPS

P ( I SUCCESSES IN J PERIODS )

		I																			
J		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
1	.333																				
2	.425	.244																			
3	.498	.321	.190																		
4	.567	.375	.267	.142																	
5	.629	.427	.321	.208	.106																
6	.681	.485	.309	.256	.167	.075															
7	.723	.546	.423	.298	.213	.125	.052														
8	.760	.590	.490	.348	.248	.167	.096	.033													
9	.798	.633	.533	.419	.290	.196	.135	.067	.023												
10	.829	.683	.577	.465	.356	.231	.165	.094	.052	.017											
11	.860	.729	.621	.510	.398	.294	.198	.117	.071	.044	.010										
12	.892	.769	.671	.552	.440	.333	.258	.144	.090	.060	.004										
13	.919	.806	.715	.604	.473	.371	.300	.196	.113	.079	.045	.023	.000								
14	.942	.838	.756	.654	.519	.404	.333	.240	.156	.100	.063	.031	.013	.000							
15	.958	.871	.788	.702	.567	.452	.367	.273	.198	.135	.081	.046	.015	.010	.000						
16	.969	.898	.829	.735	.621	.490	.417	.306	.229	.170	.108	.065	.021	.013	.008	.000					
17	.975	.917	.856	.785	.656	.540	.452	.358	.260	.206	.150	.088	.031	.017	.010	.006	.000				
18	.979	.931	.877	.819	.713	.575	.494	.394	.313	.238	.175	.129	.048	.023	.015	.008	.004	.000			
19	.983	.942	.894	.846	.748	.633	.525	.431	.350	.288	.208	.152	.083	.033	.021	.013	.006	.002	.000		
20	.988	.950	.908	.867	.779	.671	.577	.463	.388	.327	.256	.185	.102	.063	.029	.019	.010	.004	.000	.000	
21	.992	.958	.921	.885	.806	.704	.613	.513	.421	.363	.302	.225	.133	.077	.056	.025	.017	.008	.000	.000	.000
22	.996	.965	.933	.900	.831	.733	.648	.544	.471	.396	.338	.271	.169	.104	.071	.048	.023	.015	.002	.000	.000
23	1.00	.971	.944	.915	.852	.763	.675	.577	.496	.450	.369	.306	.208	.138	.098	.063	.042	.021	.006	.002	.000
24	1.00	.981	.954	.927	.873	.785	.706	.602	.525	.475	.425	.335	.246	.173	.127	.090	.054	.038	.010	.006	.000
25	1.00	.985	.971	.940	.892	.808	.729	.629	.550	.502	.450	.392	.277	.213	.154	.115	.081	.050	.023	.010	.000
26	1.00	.988	.981	.958	.913	.829	.752	.652	.573	.527	.473	.425	.333	.242	.194	.138	.102	.077	.033	.021	.000
27	1.00	.990	.985	.973	.942	.852	.777	.675	.592	.548	.500	.442	.377	.298	.221	.173	.123	.096	.058	.029	.000
28	1.00	.992	.988	.983	.960	.888	.802	.702	.610	.569	.519	.467	.398	.346	.275	.198	.158	.113	.073	.054	.000
29	1.00	.994	.990	.988	.977	.915	.842	.729	.633	.588	.540	.481	.429	.367	.331	.244	.183	.144	.085	.067	.000
30	1.00	.996	.992	.990	.985	.940	.875	.771	.656	.608	.558	.498	.446	.400	.350	.306	.225	.167	.113	.079	.000
31	1.00	.998	.994	.992	.990	.956	.904	.813	.694	.627	.579	.515	.465	.421	.391	.325	.294	.202	.133	.104	.000
32	1.00	1.00	.996	.994	.992	.965	.925	.852	.738	.656	.600	.531	.483	.442	.402	.354	.313	.273	.167	.119	.000
33	1.00	1.00	1.00	.996	.994	.971	.935	.885	.777	.698	.625	.550	.500	.465	.421	.377	.338	.292	.242	.146	.000
34	1.00	1.00	1.00	1.00	.996	.977	.942	.904	.815	.740	.665	.569	.519	.483	.446	.396	.360	.315	.263	.221	.000
35	1.00	1.00	1.00	1.00	1.00	.983	.946	.917	.850	.781	.706	.604	.535	.504	.467	.425	.375	.338	.285	.242	.000
36	1.00	1.00	1.00	1.00	1.00	.990	.952	.925	.858	.811	.750	.644	.565	.523	.488	.450	.402	.352	.313	.260	.000
37	1.00	1.00	1.00	1.00	1.00	.992	.958	.935	.873	.835	.781	.690	.598	.554	.506	.473	.423	.381	.329	.285	.000
38	1.00	1.00	1.00	1.00	1.00	.994	.963	.944	.888	.854	.810	.719	.640	.590	.535	.494	.442	.402	.363	.302	.000
39	1.00	1.00	1.00	1.00	1.00	.996	.967	.950	.902	.871	.831	.752	.669	.625	.571	.525	.460	.419	.385	.338	.000
40	1.00	1.00	1.00	1.00	1.00	.998	.971	.956	.915	.888	.850	.777	.702	.652	.604	.560	.490	.435	.404	.363	.000

TOTAL OBSERVATIONS 480

TABLE 9. 3.d. P(W ≥ W<sub>0</sub>) I LAUNCH OPPORTUNITIES IN J PERIODS (W<sub>0</sub> = 20 M/SEC).  
BASED ON MAXIMUM WIND SPEEDS IN THE 10-15 KM LAYER OVER CAPE KENNEDY, FLORIDA.  
PERIOD OF RECORD JANUARY 1956 - DECEMBER 1963.

CAPE KENNEDY, FLORIDA SEPTEMBER  
SPEEDS GREATER THAN OR EQUAL TO 025 MPS

PC ( I CONSECUTIVE SUCCESSES IN J PERIODS )

	I																			
J	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
1	.154																			
2	.208	.104																		
3	.258	.146	.065																	
4	.304	.188	.098	.033																
5	.346	.227	.131	.046	.023															
6	.385	.265	.165	.058	.031	.015														
7	.427	.300	.196	.071	.040	.021	.008													
8	.469	.338	.227	.083	.048	.027	.015	.002												
9	.510	.373	.258	.096	.056	.033	.021	.004	.000											
10	.550	.408	.290	.108	.065	.040	.027	.006	.000	.000										
11	.590	.446	.319	.121	.073	.046	.033	.008	.000	.000	.000									
12	.627	.481	.352	.133	.081	.052	.040	.010	.000	.000	.000	.000								
13	.663	.519	.398	.148	.090	.058	.046	.013	.000	.000	.000	.000	.000							
14	.698	.552	.423	.163	.100	.065	.052	.015	.000	.000	.000	.000	.000	.000						
15	.731	.588	.458	.179	.110	.073	.058	.017	.000	.000	.000	.000	.000	.000	.000					
16	.756	.6.1	.492	.196	.123	.081	.067	.019	.000	.000	.000	.000	.000	.000	.000	.000				
17	.779	.654	.525	.213	.135	.092	.075	.021	.000	.000	.000	.000	.000	.000	.000	.000	.000			
18	.802	.683	.556	.229	.148	.102	.085	.023	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000		
19	.823	.710	.595	.246	.160	.113	.096	.027	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	
20	.844	.738	.615	.260	.173	.123	.106	.031	.002	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
21	.863	.765	.644	.275	.183	.133	.117	.035	.004	.002	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
22	.877	.792	.673	.290	.194	.142	.127	.040	.006	.004	.002	.000	.000	.000	.000	.000	.000	.000	.000	.000
23	.892	.815	.707	.304	.206	.150	.135	.044	.008	.004	.004	.002	.000	.000	.000	.000	.000	.000	.000	.000
24	.906	.838	.727	.319	.219	.160	.144	.046	.010	.008	.006	.004	.002	.000	.000	.000	.000	.000	.000	.000
25	.919	.860	.750	.335	.231	.171	.152	.048	.013	.010	.008	.006	.004	.002	.000	.000	.000	.000	.000	.000
26	.931	.879	.773	.352	.246	.181	.160	.050	.015	.013	.010	.008	.006	.004	.002	.000	.000	.000	.000	.000
27	.944	.894	.796	.369	.260	.194	.169	.052	.017	.015	.013	.010	.008	.006	.004	.002	.000	.000	.000	.000
28	.954	.908	.815	.385	.275	.206	.179	.054	.019	.017	.015	.013	.010	.008	.006	.004	.002	.000	.000	.000
29	.963	.923	.833	.402	.290	.219	.190	.058	.021	.019	.017	.015	.013	.010	.008	.006	.004	.000	.000	.000
30	.969	.935	.852	.421	.304	.231	.200	.063	.025	.021	.019	.017	.015	.013	.010	.008	.006	.000	.000	.000
31	.975	.946	.869	.438	.321	.244	.210	.067	.029	.025	.021	.019	.017	.015	.013	.010	.008	.000	.000	.000
32	.981	.954	.881	.452	.338	.258	.223	.071	.033	.029	.023	.021	.019	.017	.015	.013	.010	.000	.000	.000
33	.985	.963	.894	.465	.354	.273	.238	.077	.038	.033	.025	.023	.021	.019	.017	.015	.013	.000	.000	.000
34	.990	.969	.906	.477	.369	.288	.252	.085	.044	.038	.027	.025	.023	.021	.019	.017	.015	.000	.000	.000
35	.994	.975	.917	.490	.383	.300	.267	.094	.052	.044	.029	.027	.025	.023	.021	.019	.017	.000	.000	.000
36	.996	.981	.927	.502	.398	.313	.279	.102	.060	.052	.033	.029	.027	.025	.023	.021	.019	.000	.000	.000
37	.998	.985	.935	.517	.41	.325	.292	.110	.069	.060	.040	.033	.029	.027	.025	.023	.021	.000	.000	.000
38	1.00	.990	.942	.531	.429	.338	.304	.121	.077	.069	.046	.040	.031	.029	.027	.025	.023	.000	.000	.000
39	1.00	.994	.948	.546	.446	.352	.317	.131	.088	.077	.052	.046	.035	.031	.029	.027	.025	.000	.000	.000
40	1.00	.998	.954	.560	.463	.367	.331	.142	.098	.088	.058	.052	.040	.035	.031	.029	.027	.000	.000	.000

TOTAL OBSERVATIONS 490

TABLE B. 4. a. P(W ≥ W\*) I CONSECUTIVE LAUNCH OPPORTUNITIES IN J PERIODS (W\* = 25 M/SEC).  
BASED ON MAXIMUM WIND SPEEDS IN THE 10-15 KM LAYER OVER CAPE KENNEDY, FLORIDA.  
PERIOD OF RECORD JANUARY 1956 - DECEMBER 1963.

CAPF KENNEDY, FLORIDA SEPTEMBER  
 SPEEDS GREATER THAN OR EQUAL TO 025 MPS

P ( I SUCCESSES IN J PERIODS )

	I																			
J	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
1	.154																			
2	.208	.104																		
3	.258	.150	.065																	
4	.304	.194	.104	.033																
5	.346	.238	.140	.054	.023															
6	.385	.277	.177	.073	.038	.015														
7	.427	.313	.213	.094	.052	.027	.008													
8	.469	.350	.242	.117	.067	.042	.019	.002												
9	.510	.390	.271	.131	.088	.054	.031	.006	.000											
10	.550	.431	.304	.146	.100	.075	.040	.015	.000	.000										
11	.590	.469	.344	.165	.113	.085	.052	.019	.004	.000	.000									
12	.627	.508	.379	.194	.127	.096	.069	.031	.006	.007	.000	.000								
13	.663	.544	.421	.217	.152	.106	.077	.040	.015	.004	.000	.000	.000							
14	.698	.581	.456	.246	.175	.123	.085	.044	.027	.006	.000	.000	.000	.000						
15	.731	.619	.496	.269	.206	.142	.096	.048	.033	.015	.000	.000	.000	.000	.000					
16	.756	.660	.531	.300	.231	.159	.108	.052	.038	.021	.004	.000	.000	.000	.000	.000				
17	.779	.694	.569	.329	.265	.190	.131	.056	.042	.025	.008	.002	.000	.000	.000	.000	.000			
18	.802	.723	.604	.358	.294	.219	.148	.069	.046	.029	.013	.004	.000	.000	.000	.000	.000	.000		
19	.823	.750	.635	.394	.319	.246	.171	.079	.056	.033	.017	.006	.000	.000	.000	.000	.000	.000	.000	.000
20	.844	.775	.665	.425	.352	.267	.192	.096	.067	.042	.021	.008	.000	.000	.000	.000	.000	.000	.000	.000
21	.863	.802	.696	.450	.390	.292	.206	.113	.081	.052	.027	.010	.000	.000	.000	.000	.000	.000	.000	.000
22	.877	.827	.727	.477	.417	.327	.223	.123	.098	.065	.035	.015	.000	.000	.000	.000	.000	.000	.000	.000
23	.892	.848	.756	.504	.444	.350	.256	.135	.108	.081	.044	.021	.002	.000	.000	.000	.000	.000	.000	.000
24	.906	.867	.781	.533	.467	.375	.275	.165	.121	.094	.054	.027	.006	.002	.000	.000	.000	.000	.000	.000
25	.919	.888	.802	.560	.496	.396	.298	.179	.148	.108	.065	.033	.010	.004	.002	.000	.000	.000	.000	.000
26	.931	.902	.827	.581	.521	.427	.319	.198	.165	.131	.079	.040	.015	.008	.004	.002	.000	.000	.000	.000
27	.944	.917	.846	.610	.540	.452	.352	.215	.173	.146	.098	.052	.019	.013	.008	.004	.002	.000	.000	.000
28	.954	.933	.865	.635	.567	.467	.383	.246	.200	.163	.110	.069	.027	.017	.013	.008	.004	.002	.000	.000
29	.963	.948	.885	.660	.590	.490	.404	.277	.227	.181	.121	.081	.040	.023	.017	.013	.008	.004	.000	.000
30	.969	.958	.904	.690	.613	.506	.433	.298	.254	.208	.135	.094	.050	.031	.023	.017	.013	.008	.000	.000
31	.975	.967	.919	.717	.640	.523	.452	.333	.275	.229	.158	.108	.063	.040	.029	.023	.017	.013	.002	.000
32	.981	.973	.931	.742	.665	.544	.469	.363	.306	.246	.177	.131	.073	.052	.035	.029	.021	.017	.004	.002
33	.985	.979	.942	.763	.692	.563	.490	.385	.338	.273	.188	.152	.094	.060	.046	.035	.027	.021	.006	.004
34	.990	.983	.952	.781	.713	.588	.506	.413	.358	.308	.206	.165	.117	.075	.054	.044	.033	.027	.008	.006
35	.994	.988	.960	.800	.731	.606	.529	.435	.383	.328	.238	.185	.131	.096	.065	.052	.040	.029	.010	.008
36	.996	.992	.969	.819	.750	.623	.548	.463	.404	.352	.260	.215	.154	.110	.081	.060	.046	.033	.013	.010
37	.998	.994	.977	.838	.767	.646	.565	.488	.429	.371	.283	.242	.181	.133	.092	.075	.052	.040	.019	.013
38	1.00	.996	.983	.856	.783	.663	.585	.513	.452	.394	.304	.265	.213	.154	.110	.083	.065	.046	.019	.013
39	1.00	1.00	.990	.875	.800	.679	.600	.542	.477	.415	.325	.290	.235	.188	.127	.100	.071	.058	.023	.017
40	1.00	1.00	.998	.894	.817	.696	.615	.563	.508	.438	.344	.313	.263	.210	.152	.115	.085	.069	.033	.021

TOTAL OBSERVATIONS 480

TABLE 9. 4.b. P(W ≥ W<sub>0</sub>) I LAUNCH OPPORTUNITIES IN J PERIODS (W<sub>0</sub> = 25 M/SEC).  
 BASED ON MAXIMUM WIND SPEEDS IN THE 10-15 KM LAYER OVER CAPE KENNEDY, FLORIDA.  
 PERIOD OF RECORD JANUARY 1956 - DECEMBER 1963.

CAPF KENNEDY, FLORIDA SEPTEMBER  
 SPEEDS GREATER THAN OR EQUAL TO 030 MPS

PC ( I CONSECUTIVE SUCCESSES IN J PERIODS )

J	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
1	.054																			
2	.090	.021																		
3	.123	.033	.008																	
4	.154	.044	.015	.002																
5	.181	.058	.021	.004	.000															
6	.206	.071	.027	.006	.000	.000														
7	.233	.083	.033	.008	.000	.000	.000													
8	.258	.098	.040	.010	.000	.000	.000	.000												
9	.283	.113	.046	.013	.000	.000	.000	.000	.000											
10	.308	.127	.052	.015	.000	.000	.000	.000	.000	.000										
11	.333	.142	.058	.017	.000	.000	.000	.000	.000	.000	.000									
12	.358	.156	.065	.019	.000	.000	.000	.000	.000	.000	.000	.000								
13	.383	.171	.073	.021	.000	.000	.000	.000	.000	.000	.000	.000	.000							
14	.415	.185	.081	.023	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000						
15	.446	.202	.090	.025	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000					
16	.475	.219	.098	.027	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000				
17	.504	.235	.106	.029	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000			
18	.531	.254	.115	.031	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000		
19	.556	.273	.123	.033	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	
20	.579	.294	.135	.038	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
21	.604	.313	.146	.042	.002	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
22	.62	.333	.154	.046	.004	.002	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
23	.650	.352	.165	.048	.006	.004	.002	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
24	.671	.369	.175	.052	.008	.006	.004	.002	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
25	.692	.385	.185	.056	.010	.008	.006	.004	.002	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
26	.713	.400	.196	.060	.013	.010	.008	.006	.004	.002	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
27	.733	.413	.206	.065	.015	.013	.010	.008	.006	.004	.002	.000	.000	.000	.000	.000	.000	.000	.000	.000
28	.754	.425	.219	.069	.017	.015	.013	.010	.008	.006	.004	.002	.000	.000	.000	.000	.000	.000	.000	.000
29	.775	.438	.231	.075	.019	.017	.015	.013	.010	.008	.006	.004	.000	.000	.000	.000	.000	.000	.000	.000
30	.792	.450	.244	.081	.021	.019	.017	.015	.013	.010	.008	.006	.000	.000	.000	.000	.000	.000	.000	.000
31	.806	.463	.256	.090	.023	.021	.019	.017	.015	.013	.010	.008	.000	.000	.000	.000	.000	.000	.000	.000
32	.821	.473	.269	.098	.027	.023	.021	.019	.017	.015	.013	.010	.000	.000	.000	.000	.000	.000	.000	.000
33	.833	.483	.281	.106	.031	.027	.023	.021	.019	.017	.015	.013	.000	.000	.000	.000	.000	.000	.000	.000
34	.846	.494	.296	.115	.035	.031	.027	.023	.021	.019	.017	.015	.000	.000	.000	.000	.000	.000	.000	.000
35	.858	.504	.310	.125	.042	.035	.031	.027	.023	.021	.019	.017	.000	.000	.000	.000	.000	.000	.000	.000
36	.869	.515	.325	.135	.050	.042	.035	.031	.027	.023	.021	.019	.000	.000	.000	.000	.000	.000	.000	.000
37	.879	.523	.342	.146	.058	.050	.042	.035	.031	.027	.023	.021	.000	.000	.000	.000	.000	.000	.000	.000
38	.890	.531	.356	.156	.067	.058	.050	.044	.035	.031	.027	.023	.000	.000	.000	.000	.000	.000	.000	.000
39	.900	.540	.371	.167	.075	.067	.058	.044	.040	.035	.031	.027	.000	.000	.000	.000	.000	.000	.000	.000
40	.910	.550	.385	.177	.083	.075	.067	.048	.044	.040	.035	.031	.002	.000	.000	.000	.000	.000	.000	.000

TOTAL OBSERVATIONS 480

TABLE 9. S. S.  $P(W \geq W_0)$  I CONSECUTIVE LAUNCH OPPORTUNITIES IN J PERIODS ( $W_0 = 30$  M/SEC).

BASED ON MAXIMUM WIND SPEEDS IN THE 10-15 KM LAYER OVER CAPE KENNEDY, FLORIDA.

PERIOD OF RECORD JANUARY 1956 - DECEMBER 1963.

CAPE KENNEDY, FLORIDA SEPTEMBER  
SPEEDS GREATER THAN OR EQUAL TO 030 MPS

P ( I SUCCESSES IN J PERIODS )

	I																			
J	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
1	.054																			
2	.090	.021																		
3	.123	.035	.008																	
4	.154	.052	.017	.002																
5	.181	.073	.023	.006	.000															
6	.206	.094	.031	.010	.000	.000														
7	.233	.115	.040	.015	.000	.000	.000													
8	.258	.140	.048	.019	.000	.000	.000	.000												
9	.283	.163	.058	.023	.000	.000	.000	.000	.000											
10	.308	.183	.071	.027	.000	.000	.000	.000	.000	.000										
11	.333	.204	.079	.035	.000	.000	.000	.000	.000	.000	.000									
12	.358	.227	.088	.040	.004	.000	.000	.000	.000	.000	.000	.000								
13	.383	.250	.096	.046	.006	.002	.000	.000	.000	.000	.000	.000	.000							
14	.415	.273	.104	.052	.008	.004	.000	.000	.000	.000	.000	.000	.000	.000						
15	.446	.298	.113	.056	.013	.006	.000	.000	.000	.000	.000	.000	.000	.000	.000					
16	.475	.325	.121	.060	.015	.010	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000				
17	.504	.352	.131	.065	.017	.013	.002	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000			
18	.531	.381	.144	.069	.019	.015	.004	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000		
19	.556	.413	.160	.073	.021	.017	.006	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	
20	.579	.442	.179	.081	.023	.019	.008	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
21	.604	.467	.200	.090	.029	.021	.010	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
22	.629	.492	.217	.104	.035	.025	.013	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
23	.650	.517	.235	.115	.048	.029	.017	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
24	.671	.538	.254	.127	.060	.035	.021	.002	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
25	.692	.558	.269	.142	.075	.042	.025	.004	.002	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
26	.713	.573	.285	.152	.094	.050	.031	.006	.004	.002	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
27	.733	.592	.300	.163	.110	.063	.038	.010	.006	.004	.002	.000	.000	.000	.000	.000	.000	.000	.000	.000
28	.754	.610	.315	.175	.125	.077	.046	.015	.008	.006	.004	.002	.000	.000	.000	.000	.000	.000	.000	.000
29	.775	.629	.329	.185	.144	.090	.056	.021	.010	.008	.006	.004	.000	.000	.000	.000	.000	.000	.000	.000
30	.792	.652	.344	.194	.158	.108	.067	.027	.013	.010	.008	.006	.004	.000	.000	.000	.000	.000	.000	.000
31	.806	.669	.365	.206	.171	.127	.081	.033	.017	.013	.010	.008	.000	.000	.000	.000	.000	.000	.000	.000
32	.821	.685	.383	.221	.183	.142	.100	.042	.021	.017	.013	.010	.000	.000	.000	.000	.000	.000	.000	.000
33	.833	.702	.402	.235	.198	.156	.115	.054	.029	.021	.017	.013	.000	.000	.000	.000	.000	.000	.000	.000
34	.846	.719	.421	.250	.215	.171	.129	.063	.040	.027	.021	.017	.000	.000	.000	.000	.000	.000	.000	.000
35	.858	.731	.442	.267	.231	.185	.144	.077	.050	.033	.027	.021	.002	.000	.000	.000	.000	.000	.000	.000
36	.869	.744	.463	.283	.251	.200	.156	.094	.060	.040	.033	.027	.004	.002	.000	.000	.000	.000	.000	.000
37	.879	.754	.483	.304	.264	.217	.169	.110	.075	.048	.040	.033	.008	.004	.002	.000	.000	.000	.000	.000
38	.890	.765	.502	.323	.288	.233	.181	.127	.084	.056	.044	.040	.013	.008	.004	.000	.000	.000	.000	.000
39	.900	.775	.521	.344	.306	.250	.196	.144	.102	.065	.052	.046	.017	.013	.008	.000	.000	.000	.000	.000
40	.910	.785	.538	.363	.327	.267	.210	.160	.119	.075	.060	.052	.021	.017	.013	.002	.000	.000	.000	.000

TOTAL OBSERVATIONS 400

TABLE 9. S.S. P(W ≥ W<sub>0</sub>) I LAUNCH OPPORTUNITIES IN J PERIODS (W<sub>0</sub> = 30 M/SEC).  
BASED ON MAXIMUM WIND SPEEDS IN THE 10-15 KM LAYER OVER CAPE KENNEDY, FLORIDA.  
PERIOD OF RECORD JANUARY 1956 - DECEMBER 1963.



CAPF KENNEDY . FLORIDA SEPTEMBER

SPEEDS GREATER THAN OR EQUAL TO 035 MPS

PC ( I CONSECUTIVE SUCCESSES IN J PERIODS )

	I																			
J	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
1	.004																			
2	.008	.000																		
3	.013	.000	.000																	
4	.017	.000	.000	.000																
5	.021	.000	.000	.000	.000															
6	.025	.000	.000	.000	.000	.000														
7	.031	.000	.000	.000	.000	.000	.000													
8	.038	.002	.000	.000	.000	.000	.000	.000												
9	.044	.004	.000	.000	.000	.000	.000	.000	.000											
10	.050	.006	.000	.000	.000	.000	.000	.000	.000	.000										
11	.056	.008	.000	.000	.000	.000	.000	.000	.000	.000	.000									
12	.065	.010	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000								
13	.073	.015	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000							
14	.083	.019	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000						
15	.094	.023	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000					
16	.104	.027	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000				
17	.115	.031	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000			
18	.127	.035	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000		
19	.140	.042	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	
20	.154	.048	.002	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
21	.169	.054	.004	.002	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
22	.183	.060	.006	.004	.002	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
23	.198	.067	.008	.006	.004	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
24	.213	.073	.010	.008	.006	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
25	.227	.079	.013	.010	.008	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
26	.244	.085	.015	.013	.010	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
27	.258	.092	.017	.015	.013	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
28	.273	.098	.019	.017	.015	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
29	.288	.104	.023	.019	.017	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
30	.302	.110	.029	.021	.019	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
31	.317	.117	.035	.025	.021	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
32	.331	.125	.042	.029	.025	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
33	.346	.135	.048	.033	.029	.002	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
34	.360	.146	.056	.038	.033	.004	.002	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
35	.375	.156	.065	.044	.038	.006	.004	.002	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
36	.390	.167	.075	.050	.044	.008	.006	.004	.002	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
37	.404	.179	.085	.056	.050	.013	.008	.006	.004	.002	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
38	.419	.192	.096	.063	.056	.017	.010	.008	.006	.004	.002	.000	.000	.000	.000	.000	.000	.000	.000	.000
39	.435	.204	.106	.069	.063	.021	.013	.010	.008	.006	.004	.002	.000	.000	.000	.000	.000	.000	.000	.000
40	.452	.217	.117	.075	.069	.025	.015	.013	.010	.008	.006	.004	.002	.000	.000	.000	.000	.000	.000	.000

TOTAL OBSERVATIONS 480

TABLE 9. 6.a. P(W ≥ W\*) I CONSECUTIVE LAUNCH OPPORTUNITIES IN J PERIODS (W\* = 35 M/SEC).  
 BASED ON MAXIMUM WIND SPEEDS IN THE 10-15 KM LAYER OVER CAPE KENNEDY, FLORIDA.  
 PERIOD OF RECORD JANUARY 1956 - DECEMBER 1963.

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CAPE KENNEDY, FLORIDA SEPTEMBER  
SPEEDS GREATER THAN OR EQUAL TO 035 MPS

P ( I SUCCESSSES IN J PERIODS )

J	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
1	.004																			
2	.008	.000																		
3	.013	.000	.000																	
4	.017	.000	.000	.000																
5	.021	.000	.000	.000	.000															
6	.025	.000	.000	.000	.000	.000														
7	.031	.000	.000	.000	.000	.000	.000													
8	.038	.002	.000	.000	.000	.000	.000	.000												
9	.044	.004	.000	.000	.000	.000	.000	.000	.000											
10	.050	.006	.000	.000	.000	.000	.000	.000	.000	.000										
11	.056	.008	.000	.000	.000	.000	.000	.000	.000	.000	.000									
12	.065	.010	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000								
13	.073	.015	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000							
14	.083	.019	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000						
15	.094	.023	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000					
16	.104	.027	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000				
17	.115	.031	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000			
18	.127	.035	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000		
19	.140	.042	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	
20	.154	.048	.002	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
21	.169	.054	.004	.002	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
22	.183	.060	.006	.004	.002	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
23	.198	.067	.008	.006	.004	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
24	.213	.073	.010	.008	.006	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
25	.227	.079	.013	.010	.008	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
26	.244	.085	.015	.013	.010	.002	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
27	.258	.094	.019	.015	.013	.004	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
28	.273	.102	.025	.019	.015	.006	.002	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
29	.288	.110	.031	.025	.019	.008	.004	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
30	.302	.119	.038	.031	.025	.010	.006	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
31	.317	.129	.044	.038	.031	.015	.008	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
32	.331	.142	.052	.044	.038	.019	.013	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
33	.346	.154	.063	.050	.044	.023	.017	.002	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
34	.360	.167	.073	.060	.050	.027	.021	.004	.002	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
35	.375	.179	.083	.071	.060	.031	.025	.006	.004	.002	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
36	.390	.194	.094	.081	.071	.040	.029	.008	.006	.004	.002	.000	.000	.000	.000	.000	.000	.000	.000	.000
37	.404	.208	.106	.092	.081	.048	.035	.010	.008	.006	.004	.002	.000	.000	.000	.000	.000	.000	.000	.000
38	.419	.223	.119	.102	.092	.056	.042	.013	.010	.008	.006	.004	.002	.000	.000	.000	.000	.000	.000	.000
39	.435	.238	.131	.115	.102	.065	.048	.015	.013	.010	.008	.006	.004	.002	.000	.000	.000	.000	.000	.000
40	.452	.252	.144	.127	.115	.073	.054	.019	.015	.013	.010	.008	.006	.004	.002	.000	.000	.000	.000	.000

TOTAL OBSERVATIONS 480

TABLE 9. 6.b. P(W ≥ W\*) I LAUNCH OPPORTUNITIES IN J PERIODS (W\* = 35 M/SEC).  
BASED ON MAXIMUM WIND SPEEDS IN THE 10-15 KM LAYER OVER CAPE KENNEDY, FLORIDA.  
PERIOD OF RECORD JANUARY 1956 - DECEMBER 1963.

CAPE KENNEDY, FLORIDA SEPTEMBER

SPEEDS GREATER THAN OR EQUAL TO 040 MPS

PC ( I CONSECUTIVE SUCCESSES IN J PERIODS )

	I																			
J	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
1	.000																			
2	.000	.000																		
3	.000	.000	.000																	
4	.000	.000	.000	.000																
5	.000	.000	.000	.000	.000															
6	.000	.000	.000	.000	.000	.000														
7	.002	.000	.000	.000	.000	.000	.000													
8	.004	.002	.000	.000	.000	.000	.000	.000												
9	.006	.004	.000	.000	.000	.000	.000	.000	.000											
10	.008	.005	.000	.000	.000	.000	.000	.000	.000	.000										
11	.010	.008	.000	.000	.000	.000	.000	.000	.000	.000	.000									
12	.015	.010	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000								
13	.019	.013	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000							
14	.023	.015	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000						
15	.027	.017	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000					
16	.031	.019	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000				
17	.035	.021	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000			
18	.040	.023	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000		
19	.044	.025	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	
20	.050	.027	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
21	.056	.031	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
22	.063	.035	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
23	.069	.040	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
24	.075	.044	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
25	.081	.048	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
26	.090	.052	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
27	.098	.056	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
28	.106	.060	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
29	.115	.065	.002	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
30	.123	.069	.004	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
31	.131	.073	.006	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
32	.140	.077	.008	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
33	.150	.083	.010	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
34	.160	.092	.015	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
35	.171	.100	.019	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
36	.181	.110	.023	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
37	.194	.121	.027	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
38	.206	.131	.031	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
39	.219	.142	.035	.002	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
40	.231	.152	.040	.004	.002	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000

TOTAL OBSERVATIONS 480

TABLE 9. 7.a. P(W ≥ W\*) I CONSECUTIVE LAUNCH OPPORTUNITIES IN J PERIODS (W\* = 40 M/SEC).  
 BASED ON MAXIMUM WIND SPEEDS IN THE 10-15 KM LAYER OVER C/PE KENNEDY, FLORIDA.  
 PERIOD OF RECORD JANUARY 1956 - DECEMBER 1963.

CAPE KENNEDY . FLORIDA SEPTEMBER  
 SPEEDS GREATER THAN OR EQUAL TO 040 MPS

P ( I SUCCESSES IN J PERIODS )

	I																			
J	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
1	.000																			
2	.000	.000																		
3	.000	.000	.000																	
4	.000	.000	.000	.000																
5	.000	.000	.000	.000	.000															
6	.000	.000	.000	.000	.000	.000														
7	.002	.000	.000	.000	.000	.000	.000													
8	.004	.002	.000	.000	.000	.000	.000	.000												
9	.006	.004	.000	.000	.000	.000	.000	.000	.000											
10	.008	.006	.000	.000	.000	.000	.000	.000	.000	.000										
11	.010	.008	.000	.000	.000	.000	.000	.000	.000	.000	.000									
12	.015	.010	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000								
13	.019	.013	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000							
14	.023	.015	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000						
15	.027	.017	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000					
16	.031	.019	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000				
17	.035	.021	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000			
18	.040	.023	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000		
19	.044	.025	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	
20	.050	.027	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
21	.056	.031	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
22	.063	.035	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
23	.069	.040	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
24	.075	.044	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
25	.081	.048	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
26	.090	.052	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
27	.098	.056	.002	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
28	.106	.060	.004	.002	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
29	.115	.067	.006	.004	.002	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
30	.123	.073	.008	.006	.004	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
31	.131	.081	.010	.008	.006	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
32	.140	.090	.015	.010	.008	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
33	.150	.098	.019	.015	.010	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
34	.160	.108	.023	.019	.015	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
35	.171	.119	.029	.023	.019	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
36	.181	.129	.038	.029	.023	.002	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
37	.194	.140	.046	.038	.027	.004	.002	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
38	.206	.150	.054	.046	.031	.006	.004	.002	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
39	.219	.163	.063	.054	.035	.008	.006	.004	.002	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
40	.231	.175	.071	.063	.042	.010	.008	.006	.004	.002	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000

TOTAL OBSERVATIONS 480

TABLE 9. 7.b. P(W ≥ W\*) I LAUNCH OPPORTUNITIES IN J PERIODS (W\* = 40 M/SEC).  
 BASED ON MAXIMUM WIND SPEEDS IN THE 10-15 KM LAYER OVER CAPE KENNEDY, FLORIDA.

PERIOD OF RECORD JANUARY 1956 - DECEMBER 1963.

CAPE KENNEDY . FLORIDA SEPTEMBER

SPEEDS GREATER THAN OR EQUAL TO 045 MPS

PC ( I CONSECUTIVE SUCCESSES IN J PERIODS )

		I																			
J		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
1	.000																				
2	.000	.000																			
3	.000	.000	.000																		
4	.000	.000	.000	.000																	
5	.000	.000	.000	.000	.000																
6	.000	.000	.000	.000	.000	.000															
7	.000	.000	.000	.000	.000	.000	.000														
8	.002	.000	.000	.000	.000	.000	.000	.000													
9	.004	.000	.000	.000	.000	.000	.000	.000	.000												
10	.006	.000	.000	.000	.000	.000	.000	.000	.000	.000											
11	.008	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000										
12	.010	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000									
13	.013	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000								
14	.015	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000							
15	.017	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000						
16	.019	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000					
17	.021	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000				
18	.023	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000			
19	.025	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000		
20	.027	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	
21	.029	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
22	.031	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
23	.033	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
24	.035	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
25	.038	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
26	.042	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
27	.046	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
28	.050	.002	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
29	.054	.004	.002	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
30	.058	.006	.004	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
31	.063	.008	.006	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
32	.067	.010	.008	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
33	.073	.013	.010	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
34	.079	.017	.013	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
35	.085	.021	.015	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
36	.092	.027	.017	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
37	.098	.033	.019	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
38	.104	.040	.021	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
39	.110	.046	.023	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
40	.117	.052	.025	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000

TOTAL OBSERVATIONS 480

TABLE 2. 2. a.  $P(N \geq M)$  I CONSECUTIVE LAUNCH OPPORTUNITIES IN J PERIODS ( $N = 45$  M/SEC).  
 BASED ON MAXIMUM WIND SPEEDS IN THE 10-15 KM LAYER OVER CAPE KENNEDY, FLORIDA.  
 PERIOD OF RECORD JANUARY 1956 - DECEMBER 1963.

CAPE KENNEDY, FLORIDA SEPTEMBER  
SPEEDS GREATER THAN OR EQUAL TO 045 MPS

P ( I SUCCESSES IN J PERIODS )

	I																			
J	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
1	.000																			
2	.000	.000																		
3	.000	.000	.000																	
4	.000	.000	.000	.000																
5	.000	.000	.000	.000	.000															
6	.000	.000	.000	.000	.000	.000														
7	.000	.000	.000	.000	.000	.000	.000													
8	.002	.000	.000	.000	.000	.000	.000	.000												
9	.004	.000	.000	.000	.000	.000	.000	.000	.000											
10	.006	.000	.000	.000	.000	.000	.000	.000	.000	.000										
11	.008	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000									
12	.010	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000								
13	.013	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000							
14	.015	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000						
15	.017	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000					
16	.019	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000				
17	.021	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000			
18	.023	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000		
19	.025	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	
20	.027	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
21	.029	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
22	.031	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
23	.033	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
24	.035	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
25	.038	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
26	.042	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
27	.046	.002	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
28	.050	.004	.002	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
29	.054	.006	.004	.002	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
30	.058	.008	.006	.004	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
31	.063	.010	.008	.006	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
32	.067	.013	.010	.008	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
33	.073	.015	.013	.010	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
34	.079	.019	.015	.013	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
35	.085	.023	.017	.015	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
36	.092	.031	.021	.017	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
37	.098	.038	.027	.019	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
38	.104	.044	.033	.021	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
39	.110	.050	.040	.023	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
40	.117	.056	.046	.027	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000

TOTAL OBSERVATIONS 480

TABLE 9. S.D.  $P(W \geq W_0)$  I LAUNCH OPPORTUNITIES IN J PERIODS ( $W_0 = 45$  M/SEC),  
BASED ON MAXIMUM WIND SPEEDS IN THE 10-15 KM LAYER OVER CAPE KENNEDY, FLORIDA,  
PERIOD OF RECORD JANUARY 1956 - DECEMBER 1963.

CAPE KENNEDY, FLORIDA OCTOBER  
SPEEDS GREATER THAN OR EQUAL TO 010 MPS

PC ( I CONSECUTIVE SUCCESSES IN J PERIODS )

J	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
1	.960																			
2	.988	.935																		
3	.996	.960	.917																	
4	1.00	.984	.935	.903																
5	1.00	.996	.954	.921	.889															
6	1.00	1.00	.970	.940	.903	.879														
7	1.00	1.00	.978	.956	.917	.893	.869													
8	1.00	1.00	.984	.970	.929	.907	.883	.859												
9	1.00	1.00	.990	.978	.940	.919	.897	.873	.849											
10	1.00	1.00	.994	.984	.950	.929	.909	.887	.863	.837										
11	1.00	1.00	.998	.990	.958	.940	.919	.899	.877	.851	.825									
12	1.00	1.00	1.00	.994	.966	.950	.929	.909	.889	.865	.839	.813								
13	1.00	1.00	1.00	.998	.974	.958	.940	.919	.899	.877	.853	.827	.802							
14	1.00	1.00	1.00	1.00	.980	.966	.950	.929	.909	.887	.865	.841	.817	.792						
15	1.00	1.00	1.00	1.00	.986	.974	.958	.940	.919	.897	.875	.853	.831	.806	.782					
16	1.00	1.00	1.00	1.00	.992	.980	.966	.950	.929	.907	.885	.863	.843	.821	.794	.774				
17	1.00	1.00	1.00	1.00	.994	.986	.974	.958	.940	.917	.895	.873	.853	.833	.806	.784	.768			
18	1.00	1.00	1.00	1.00	.996	.992	.980	.966	.950	.927	.905	.883	.863	.843	.817	.794	.778	.762		
19	1.00	1.00	1.00	1.00	.998	.994	.986	.974	.958	.938	.915	.893	.873	.853	.827	.804	.788	.772	.756	
20	1.00	1.00	1.00	1.00	1.00	.996	.992	.980	.966	.950	.925	.903	.883	.863	.837	.815	.798	.782	.766	.750
21	1.00	1.00	1.00	1.00	1.00	.998	.994	.986	.974	.958	.938	.913	.893	.873	.847	.825	.808	.792	.776	.760
22	1.00	1.00	1.00	1.00	1.00	1.00	.996	.992	.980	.966	.950	.925	.903	.883	.857	.835	.819	.802	.786	.770
23	1.00	1.00	1.00	1.00	1.00	1.00	.998	.994	.986	.974	.958	.938	.915	.893	.867	.845	.829	.813	.796	.780
24	1.00	1.00	1.00	1.00	1.00	1.00	.996	.992	.980	.966	.950	.927	.905	.877	.855	.839	.823	.806	.790	
25	1.00	1.00	1.00	1.00	1.00	1.00	.998	.994	.986	.974	.958	.940	.917	.889	.865	.849	.833	.817	.800	
26	1.00	1.00	1.00	1.00	1.00	1.00	.996	.992	.980	.966	.952	.929	.907	.877	.859	.843	.827	.810		
27	1.00	1.00	1.00	1.00	1.00	1.00	.998	.994	.986	.974	.960	.940	.913	.889	.871	.853	.837	.821		
28	1.00	1.00	1.00	1.00	1.00	1.00	.996	.992	.980	.968	.954	.925	.901	.883	.865	.847	.831			
29	1.00	1.00	1.00	1.00	1.00	1.00	.998	.994	.986	.974	.962	.938	.913	.895	.877	.859	.841			
30	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.996	.992	.982	.970	.950	.925	.907	.889	.871	.853
31	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.998	.994	.988	.978	.958	.938	.919	.901	.883	.865
32	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.996	.994	.984	.966	.950	.931	.913	.895	.877	.859
33	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.998	.996	.990	.974	.958	.944	.925	.907	.889	.871
34	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.998	.996	.980	.966	.956	.938	.919	.901	
35	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.998	.986	.974	.964	.950	.931	.913		
36	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.992	.980	.972	.962	.944	.925
37	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.996	.986	.980	.970	.956	.938
38	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.998	.992	.986	.978	.968	.950
39	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.996	.992	.986	.976	.962
40	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.996	.992	.984	.974

TOTAL OBSERVATIONS 496

TABLE 10. 1.a. P(N ≥ W) I CONSECUTIVE LAUNCH OPPORTUNITIES IN J PERIODS (W = 10 M/SEC).  
BASED ON MAXIMUM WIND SPEEDS IN THE 10-15 KM LAYER OVER CAPE KENNEDY, FLORIDA.  
PERIOD OF RECORD JANUARY 1956 - DECEMBER 1963.

CAPE KENNEDY, FLORIDA OCTOBER

SPEEDS GREATER THAN OR EQUAL TO 010 MPS

P ( I SUCCESSFUL IN J PERIODS )

	I																				
J	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	
1	.960																				
2	.988	.935																			
3	.996	.976	.917																		
4	1.00	.992	.962	.903																	
5	1.00	1.00	.982	.954	.889																
6	1.00	1.00	.994	.978	.942	.879															
7	1.00	1.00	.998	.990	.972	.931	.869														
8	1.00	1.00	1.00	.996	.986	.966	.921	.859													
9	1.00	1.00	1.00	1.00	.994	.982	.958	.913	.849												
10	1.00	1.00	1.00	1.00	1.00	.992	.976	.952	.905	.837											
11	1.00	1.00	1.00	1.00	1.00	1.00	.988	.972	.946	.897	.825										
12	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.984	.968	.940	.889	.813									
13	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.980	.964	.933	.881	.802								
14	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.976	.960	.927	.873	.792							
15	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.972	.956	.921	.865	.782						
16	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.968	.952	.915	.855	.774					
17	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.964	.948	.907	.845	.768				
18	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.960	.944	.897	.839	.762			
19	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.956	.938	.891	.835	.756		
20	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.952	.931	.887	.831	.750	
21	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.946	.927	.885	.827	
22	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.998	.940	.927	.881
23	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.994	.940	.925
24	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.998	.994	.940
25	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.998	.994
26	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.998
27	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
28	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
29	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
30	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
31	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
32	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
33	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
34	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
35	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
36	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
37	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
38	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
39	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
40	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00

TOTAL OBSERVATIONS 496

TABLE 10. 1.b. P(N ≥ W) I LAUNCH OPPORTUNITIES IN J PERIODS (W = 10 M/SEC).  
 BASED ON MAXIMUM WIND SPEEDS IN THE 10-15 KM LAYER OVER CAPE KENNEDY, FLORIDA.  
 PERIOD OF RECORD JANUARY 1956 - DECEMBER 1963.



CAPF KENNEDY . FLORIDA OCTOBER

SPEFDS GREATER THAN OR FQUAL TO 015 MP5

PC : I CONSECUTIVE SUCCESSES IN J PERIODS )

I

J	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
1	.863																			
2	.913	.821																		
3	.935	.859	.788																	
4	.956	.897	.825	.760																
5	.968	.921	.861	.792	.736															
6	.980	.944	.897	.825	.766	.714														
7	.992	.962	.923	.857	.796	.740	.696													
8	.998	.978	.948	.889	.827	.766	.722	.677												
9	1.00	.990	.968	.911	.857	.792	.748	.704	.659											
10	1.00	.998	.982	.933	.887	.819	.774	.730	.683	.641										
11	1.00	1.00	.992	.954	.907	.845	.800	.756	.708	.661	.627									
12	1.00	1.00	.998	.968	.927	.871	.827	.782	.732	.681	.647	.613								
13	1.00	1.00	1.00	.976	.944	.891	.853	.808	.756	.702	.667	.633	.599							
14	1.00	1.00	1.00	.984	.952	.909	.879	.835	.780	.722	.688	.653	.619	.585						
15	1.00	1.00	1.00	.990	.958	.923	.897	.861	.804	.742	.708	.673	.639	.603	.573					
16	1.00	1.00	1.00	.994	.964	.933	.911	.885	.829	.762	.728	.694	.659	.621	.591	.560				
17	1.00	1.00	1.00	.996	.968	.944	.925	.899	.851	.782	.748	.714	.679	.639	.609	.579	.548			
18	1.00	1.00	1.00	.998	.972	.954	.935	.913	.871	.802	.768	.734	.700	.657	.627	.597	.565	.538		
19	1.00	1.00	1.00	1.00	.976	.962	.946	.927	.887	.823	.788	.754	.720	.675	.645	.615	.581	.554	.528	
20	1.00	1.00	1.00	1.00	.980	.970	.956	.938	.903	.843	.808	.774	.740	.694	.663	.633	.597	.571	.544	.518
21	1.00	1.00	1.00	1.00	.984	.976	.964	.948	.919	.859	.829	.794	.760	.712	.681	.651	.613	.587	.560	.534
22	1.00	1.00	1.00	1.00	.986	.982	.972	.958	.931	.877	.851	.815	.780	.730	.700	.669	.629	.603	.577	.550
23	1.00	1.00	1.00	1.00	.988	.986	.978	.966	.944	.893	.869	.837	.800	.748	.718	.688	.645	.619	.593	.567
24	1.00	1.00	1.00	1.00	.990	.988	.984	.974	.956	.905	.887	.861	.823	.766	.736	.706	.661	.635	.609	.583
25	1.00	1.00	1.00	1.00	.992	.990	.988	.980	.966	.917	.901	.879	.847	.786	.754	.724	.677	.651	.625	.599
26	1.00	1.00	1.00	1.00	.994	.992	.990	.986	.974	.929	.913	.895	.871	.808	.774	.742	.694	.667	.641	.615
27	1.00	1.00	1.00	1.00	.996	.994	.992	.990	.982	.942	.925	.909	.887	.831	.796	.762	.710	.683	.657	.631
28	1.00	1.00	1.00	1.00	.998	.996	.994	.992	.988	.952	.938	.921	.903	.851	.819	.784	.728	.700	.673	.647
29	1.00	1.00	1.00	1.00	1.00	.998	.996	.994	.992	.960	.948	.933	.917	.865	.839	.806	.748	.718	.690	.662
30	1.00	1.00	1.00	1.00	1.00	1.00	.998	.996	.994	.968	.958	.944	.929	.879	.859	.827	.768	.738	.708	.679
31	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.998	.996	.974	.966	.954	.940	.891	.873	.847	.786	.758	.728	.698
32	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.998	.980	.974	.964	.950	.901	.887	.867	.804	.776	.748	.718
33	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.986	.980	.972	.960	.911	.899	.881	.823	.794	.766	.738
34	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.992	.986	.980	.970	.921	.909	.895	.841	.813	.784
35	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.994	.992	.986	.978	.931	.919	.907	.855	.831	.802
36	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.996	.994	.992	.986	.942	.929	.917	.869	.849	.821
37	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.998	.996	.994	.992	.952	.940	.927	.881	.863	.839
38	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.998	.996	.994	.962	.950	.938	.891	.877	.857
39	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.998	.996	.966	.960	.948	.901	.889	.871
40	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.998	.970	.966	.958	.911	.899	.885

TOTAL OBSERVATIONS 496

TABLE 10. 2.a.  $P(W \geq W_0)$  I CONSECUTIVE LAUNCH OPPORTUNITIES IN J PERIODS ( $W_0 = 15$  M/SEC).  
 BASED ON MAXIMUM WIND SPEEDS IN THE 10-15 KM LAYER OVER CAPE KENNEDY, FLORIDA.  
 PERIOD OF RECORD JANUARY 1956 - DECEMBER 1963.

CAPE KENNEDY, FLORIDA OCTOBER  
SPEEDS GREATER THAN OR EQUAL TO 015 MPS

P ( I SUCCESSES IN J PERIODS )

	I																			
J	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
1	.863																			
2	.913	.821																		
3	.935	.885	.788																	
4	.956	.911	.865	.760																
5	.968	.938	.897	.843	.736															
6	.980	.954	.927	.879	.825	.714														
7	.992	.968	.946	.913	.863	.806	.696													
8	.998	.984	.960	.933	.901	.847	.792	.677												
9	1.00	.996	.978	.948	.923	.889	.833	.780	.659											
10	1.00	1.00	.994	.966	.938	.915	.877	.821	.766	.641										
11	1.00	1.00	1.00	.988	.956	.929	.907	.867	.806	.748	.627									
12	1.00	1.00	1.00	.994	.980	.948	.923	.899	.853	.788	.736	.613								
13	1.00	1.00	1.00	1.00	.994	.974	.942	.917	.885	.839	.774	.726	.599							
14	1.00	1.00	1.00	1.00	1.00	.988	.970	.939	.903	.875	.825	.764	.718	.585						
15	1.00	1.00	1.00	1.00	1.00	.998	.984	.966	.919	.897	.859	.819	.754	.708	.573					
16	1.00	1.00	1.00	1.00	1.00	1.00	.996	.980	.952	.911	.881	.855	.810	.746	.698	.560				
17	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.994	.964	.948	.891	.879	.847	.806	.738	.688	.548			
18	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.980	.962	.929	.889	.871	.845	.802	.730	.675	.538		
19	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.988	.980	.948	.927	.881	.869	.843	.798	.720	.665	.528	
20	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.990	.988	.970	.946	.919	.877	.869	.841	.792	.712	.655	.518
21	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.992	.990	.980	.970	.938	.913	.877	.865	.837	.788	.702	.647
22	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.994	.992	.984	.980	.964	.929	.913	.877	.857	.835	.782	.694
23	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.996	.994	.988	.984	.974	.956	.929	.913	.879	.867	.831	.778
24	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.998	.996	.997	.988	.982	.968	.956	.929	.911	.875	.867	.827
25	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.998	.996	.992	.988	.974	.968	.956	.929	.909	.875	.867	
26	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.998	.994	.992	.982	.974	.956	.929	.907	.875		
27	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.998	.996	.988	.982	.974	.968	.956	.929
28	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.998	.994	.988	.982	.974	.968	.956
29	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.998	.994	.988	.982	.974	.968	.956
30	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.998	.994	.988	.982	.974	.968
31	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.998	.994	.988	.982	.974
32	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.998	.994	.988	.982	
33	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.998	.994	.988	
34	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.998	.994	
35	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.998	
36	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	
37	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	
38	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	
39	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	
40	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	

TOTAL OBSERVATIONS = 96

TABLE 10. 2.b. P(W ≥ W<sub>0</sub>) I LAUNCH OPPORTUNITIES IN J PERIODS (W<sub>0</sub> = 15 M/SEC).  
BASED ON MAXIMUM WIND SPEEDS IN THE 10-15 MM LAYER OVER CAPE KENNEDY, FLORIDA.  
PERIOD OF RECORD JANUARY 1956 - DECEMBER 1968.

CAPE KENNEDY, FLORIDA OCTOBER

SPEEDS GREATER THAN OR EQUAL TO 020 MPS

PC ( I CONSECUTIVE SUCCESSES IN J PERIODS )

J	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
1	.724																			
2	.804	.653																		
3	.849	.714	.605																	
4	.887	.772	.651	.571																
5	.915	.815	.696	.605	.548															
6	.940	.855	.740	.639	.581	.528														
7	.960	.885	.772	.673	.613	.558	.510													
8	.978	.911	.800	.710	.645	.589	.538	.494												
9	.990	.931	.825	.738	.679	.619	.567	.522	.476											
10	.996	.944	.849	.764	.712	.651	.595	.550	.502	.460										
11	.998	.954	.869	.788	.736	.681	.625	.579	.528	.486	.444									
12	1.00	.962	.885	.810	.760	.710	.653	.609	.554	.512	.470	.427								
13	1.00	.970	.901	.829	.780	.734	.679	.637	.583	.538	.496	.450	.415							
14	1.00	.978	.913	.845	.800	.756	.706	.663	.609	.567	.522	.472	.439	.403						
15	1.00	.984	.925	.861	.819	.778	.726	.690	.633	.593	.550	.494	.460	.425	.391					
16	1.00	.990	.938	.877	.835	.800	.746	.714	.657	.617	.577	.518	.482	.448	.413	.379				
17	1.00	.994	.948	.891	.851	.821	.766	.734	.681	.641	.601	.542	.506	.470	.435	.399	.369			
18	1.00	.996	.958	.905	.865	.839	.786	.754	.706	.665	.625	.565	.530	.494	.458	.419	.389	.359		
19	1.00	.998	.966	.917	.879	.855	.804	.774	.726	.690	.649	.587	.552	.518	.482	.440	.409	.377	.351	
20	1.00	1.00	.974	.929	.893	.871	.819	.794	.746	.714	.673	.609	.575	.540	.506	.462	.429	.395	.369	.343
21	1.00	1.00	.980	.940	.905	.885	.833	.810	.766	.734	.698	.631	.597	.563	.528	.484	.452	.413	.387	.361
22	1.00	1.00	.984	.946	.917	.899	.847	.825	.784	.754	.722	.653	.619	.585	.550	.504	.474	.433	.405	.379
23	1.00	1.00	.988	.954	.929	.911	.859	.839	.802	.772	.742	.675	.641	.607	.573	.524	.494	.454	.425	.397
24	1.00	1.00	.992	.960	.940	.925	.871	.853	.817	.792	.760	.698	.663	.629	.595	.544	.514	.472	.446	.417
25	1.00	1.00	.994	.966	.948	.935	.881	.865	.831	.810	.782	.718	.685	.651	.617	.565	.534	.490	.464	.438
26	1.00	1.00	.996	.972	.956	.946	.891	.877	.845	.825	.802	.742	.708	.673	.639	.585	.554	.508	.482	.456
27	1.00	1.00	.998	.974	.964	.954	.901	.887	.857	.839	.819	.766	.732	.696	.661	.605	.575	.526	.500	.474
28	1.00	1.00	1.00	.976	.970	.962	.909	.897	.869	.853	.833	.786	.756	.720	.683	.625	.595	.544	.518	.492
29	1.00	1.00	1.00	.978	.974	.968	.917	.907	.879	.865	.847	.802	.778	.742	.708	.645	.615	.563	.536	.510
30	1.00	1.00	1.00	.980	.978	.974	.925	.915	.889	.877	.861	.817	.794	.762	.732	.667	.635	.581	.554	.528
31	1.00	1.00	1.00	.982	.980	.978	.933	.923	.899	.887	.873	.831	.813	.780	.752	.690	.657	.599	.573	.546
32	1.00	1.00	1.00	.984	.982	.980	.942	.931	.909	.897	.885	.843	.827	.796	.770	.710	.679	.619	.591	.565
33	1.00	1.00	1.00	.986	.984	.982	.946	.940	.919	.907	.895	.859	.841	.810	.788	.728	.701	.639	.611	.583
34	1.00	1.00	1.00	.988	.986	.984	.950	.946	.929	.917	.905	.873	.855	.825	.804	.746	.718	.657	.631	.603
35	1.00	1.00	1.00	.990	.988	.986	.954	.950	.938	.927	.915	.883	.869	.839	.819	.764	.736	.675	.649	.623
36	1.00	1.00	1.00	.992	.990	.988	.958	.954	.946	.935	.925	.897	.883	.853	.833	.780	.754	.694	.667	.641
37	1.00	1.00	1.00	.994	.992	.990	.962	.958	.952	.944	.933	.909	.895	.867	.847	.794	.772	.712	.685	.659
38	1.00	1.00	1.00	.996	.994	.992	.966	.962	.958	.952	.942	.919	.907	.881	.861	.808	.788	.730	.704	.677
39	1.00	1.00	1.00	.998	.996	.994	.970	.966	.962	.958	.950	.929	.917	.893	.875	.823	.802	.748	.722	.696
40	1.00	1.00	1.00	1.00	.998	.996	.974	.970	.966	.962	.958	.940	.927	.903	.889	.837	.817	.764	.740	.714

TOTAL OBSERVATIONS 496

TABLE 10. 2.2. P(W ≥ W<sub>0</sub>) I CONSECUTIVE LAUNCH OPPORTUNITIES IN J PERIODS (W<sub>0</sub> = 20 M/SEC).

BASED ON MAXIMUM WIND SPEEDS IN THE 10-15 KM LAYER OVER CAPE KENNEDY, FLORIDA.

PERIOD OF RECORD JANUARY 1956 - DECEMBER 1963.

CAPF KENNEDY , FLORIDA OCTOBER  
 SPEEDS GREATER THAN OR EQUAL TO 020 MPS

P ( I SUCCESSES IN J PERIODS )

J	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
1	.724																			
2	.804	.653																		
3	.849	.746	.605																	
4	.887	.796	.698	.571																
5	.915	.843	.750	.659	.548															
6	.940	.870	.794	.710	.641	.528														
7	.960	.907	.837	.750	.692	.623	.510													
8	.978	.931	.871	.790	.732	.671	.607	.494												
9	.990	.950	.905	.823	.770	.712	.657	.591	.476											
10	.996	.966	.927	.863	.798	.750	.696	.643	.573	.460										
11	.998	.978	.948	.889	.843	.774	.734	.681	.625	.559	.444									
12	1.00	.986	.960	.915	.871	.817	.756	.722	.661	.611	.546	.427								
13	1.00	.994	.970	.933	.903	.841	.798	.746	.702	.645	.601	.530	.415							
14	1.00	.998	.982	.948	.923	.873	.821	.790	.728	.685	.631	.587	.518	.403						
15	1.00	1.00	.990	.964	.938	.893	.853	.813	.776	.714	.669	.621	.573	.506	.391					
16	1.00	1.00	.996	.974	.956	.911	.871	.847	.798	.766	.696	.659	.611	.560	.494	.379				
17	1.00	1.00	.998	.986	.966	.931	.889	.865	.837	.788	.752	.679	.653	.603	.548	.480	.369			
18	1.00	1.00	1.00	.992	.980	.940	.913	.885	.857	.829	.776	.734	.671	.647	.593	.536	.468	.359		
19	1.00	1.00	1.00	.998	.988	.956	.921	.911	.881	.851	.821	.752	.726	.665	.639	.583	.524	.456	.351	
20	1.00	1.00	1.00	1.00	.996	.966	.938	.919	.909	.877	.845	.794	.742	.722	.657	.631	.571	.516	.444	.343
21	1.00	1.00	1.00	1.00	1.00	.978	.950	.933	.917	.907	.873	.819	.782	.738	.716	.649	.621	.563	.508	.431
22	1.00	1.00	1.00	1.00	1.00	.988	.964	.946	.929	.915	.905	.849	.804	.778	.732	.710	.641	.613	.554	.500
23	1.00	1.00	1.00	1.00	1.00	.994	.976	.962	.940	.927	.913	.887	.835	.796	.774	.726	.706	.633	.605	.546
24	1.00	1.00	1.00	1.00	1.00	.996	.988	.972	.956	.938	.925	.897	.877	.825	.790	.770	.722	.702	.625	.595
25	1.00	1.00	1.00	1.00	1.00	.998	.994	.984	.964	.956	.935	.911	.889	.867	.819	.786	.768	.718	.698	.613
26	1.00	1.00	1.00	1.00	1.00	1.00	.998	.994	.972	.964	.956	.923	.903	.881	.859	.817	.782	.766	.714	.688
27	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.998	.982	.972	.964	.948	.915	.897	.871	.857	.813	.780	.764	.704
28	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.988	.980	.972	.958	.942	.911	.887	.867	.855	.808	.778	.756
29	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.990	.989	.978	.970	.950	.942	.901	.881	.865	.851	.806	.770
30	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.992	.990	.986	.978	.964	.950	.933	.895	.879	.863	.847	.798
31	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.994	.992	.988	.986	.974	.962	.942	.929	.893	.877	.861	.839
32	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.996	.994	.990	.988	.984	.972	.954	.940	.927	.891	.875	.857
33	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.998	.996	.992	.990	.988	.982	.964	.954	.935	.927	.889	.873
34	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.998	.994	.992	.990	.988	.974	.964	.950	.935	.927	.887
35	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.996	.994	.992	.990	.980	.974	.960	.950	.935	.927
36	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.998	.996	.994	.992	.984	.978	.970	.960	.935
37	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.998	.996	.994	.988	.982	.974	.970	.960	.950
38	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.998	.996	.992	.986	.978	.974	.970	.960
39	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.998	.996	.990	.982	.978	.974	.970
40	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.998	.996	.986	.982	.978	.974

TOTAL OBSERVATIONS 496

TABLE 10. 3.b. P(W ≥ W\*) I LAUNCH OPPORTUNITIES IN J PERIODS (W\* = 20 M/SEC).  
 BASED ON MAXIMUM WIND SPEEDS IN THE 10-15 KM LAYER OVER CAPE KENNEDY, FLORIDA.  
 PERIOD OF RECORD JANUARY 1956 - DECEMBER 1963.

CAPE KENNEDY, FLORIDA OCTOBER  
SPEEDS GREATER THAN OR EQUAL TO 025 MPS

PC ( I CONSECUTIVE SUCCESSES IN J PERIODS )

J	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
1	.552																			
2	.637	.478																		
3	.694	.538	.427																	
4	.736	.599	.476	.389																
5	.774	.645	.524	.425	.363															
6	.808	.685	.575	.462	.397	.339														
7	.841	.724	.617	.500	.431	.373	.315													
8	.865	.756	.657	.538	.468	.407	.347	.292												
9	.887	.786	.696	.573	.504	.444	.379	.319	.274											
10	.905	.815	.730	.605	.542	.480	.413	.345	.300	.254										
11	.919	.841	.764	.637	.575	.518	.448	.373	.327	.280	.234									
12	.933	.863	.790	.665	.605	.556	.484	.401	.355	.306	.258	.216								
13	.946	.881	.815	.692	.635	.591	.520	.431	.383	.335	.282	.240	.198							
14	.956	.897	.833	.714	.661	.621	.558	.462	.413	.363	.308	.264	.220	.181						
15	.964	.909	.849	.734	.688	.649	.593	.494	.444	.393	.335	.290	.242	.200	.169					
16	.970	.921	.865	.752	.708	.675	.621	.526	.476	.423	.363	.317	.266	.218	.188	.157				
17	.976	.929	.881	.770	.728	.700	.649	.554	.508	.456	.391	.345	.290	.238	.206	.169	.151			
18	.982	.935	.897	.788	.746	.720	.673	.581	.540	.488	.421	.373	.317	.259	.226	.181	.163	.145		
19	.988	.942	.907	.806	.764	.740	.698	.605	.569	.520	.452	.403	.343	.280	.246	.196	.175	.155	.141	
20	.992	.946	.915	.825	.782	.758	.718	.629	.593	.552	.482	.433	.371	.302	.268	.210	.190	.165	.151	.137
21	.994	.950	.921	.839	.800	.776	.738	.653	.617	.579	.512	.464	.399	.327	.290	.226	.204	.177	.161	.147
22	.996	.954	.927	.851	.819	.794	.756	.673	.641	.603	.540	.494	.427	.351	.315	.242	.220	.190	.173	.157
23	.998	.958	.933	.863	.835	.813	.774	.696	.665	.627	.565	.522	.456	.375	.339	.260	.236	.204	.185	.169
24	1.00	.962	.940	.875	.849	.829	.792	.716	.688	.651	.587	.550	.482	.399	.363	.278	.254	.218	.200	.181
25	1.00	.966	.946	.885	.863	.845	.810	.736	.710	.679	.609	.575	.508	.421	.387	.296	.272	.234	.214	.196
26	1.00	.970	.952	.895	.875	.859	.829	.756	.730	.702	.635	.597	.534	.444	.409	.315	.290	.250	.230	.210
27	1.00	.972	.958	.905	.887	.871	.847	.776	.750	.724	.661	.621	.558	.466	.431	.331	.308	.266	.246	.226
28	1.00	.974	.964	.915	.899	.883	.861	.796	.770	.744	.681	.645	.583	.488	.454	.347	.325	.282	.262	.242
29	1.00	.976	.966	.925	.911	.895	.875	.815	.790	.764	.702	.669	.607	.510	.476	.363	.341	.298	.278	.258
30	1.00	.978	.968	.933	.923	.907	.889	.833	.808	.784	.722	.688	.631	.530	.500	.379	.357	.315	.294	.274
31	1.00	.980	.970	.940	.931	.919	.903	.851	.827	.802	.742	.706	.655	.550	.522	.397	.373	.331	.310	.290
32	1.00	.982	.972	.946	.940	.929	.915	.869	.845	.821	.762	.724	.673	.571	.542	.415	.391	.347	.327	.306
33	1.00	.984	.974	.952	.946	.938	.925	.885	.863	.839	.782	.742	.692	.591	.563	.433	.409	.365	.343	.323
34	1.00	.986	.976	.958	.952	.946	.935	.897	.879	.857	.802	.760	.710	.609	.583	.450	.427	.383	.361	.339
35	1.00	.988	.978	.964	.958	.952	.944	.909	.893	.873	.823	.778	.728	.619	.603	.466	.446	.401	.379	.357
36	1.00	.990	.980	.970	.964	.958	.952	.921	.905	.887	.841	.796	.746	.633	.617	.482	.462	.419	.397	.375
37	1.00	.992	.982	.974	.970	.964	.958	.931	.917	.901	.857	.813	.764	.647	.631	.498	.478	.438	.415	.393
38	1.00	.994	.984	.978	.974	.970	.964	.940	.929	.913	.873	.827	.782	.661	.645	.512	.494	.454	.433	.411
39	1.00	.996	.986	.982	.978	.974	.970	.946	.938	.925	.889	.841	.798	.675	.659	.526	.510	.470	.452	.429
40	1.00	.998	.988	.986	.982	.978	.974	.952	.946	.935	.903	.855	.815	.688	.673	.540	.524	.486	.468	.448

TOTAL OBSERVATIONS 496

TABLE 10. 4, a. P(W ≥ W\*) I CONSECUTIVE LAUNCH OPPORTUNITIES IN J PERIODS (W\* = 25 M/SEC).  
BASED ON MAXIMUM WIND SPEEDS IN THE 10-15 KM LAYER OVER CAPE KENNEDY, FLORIDA.  
PERIOD OF RECORD JANUARY 1956 - DECEMBER 1963.

CAPE KENNEDY . FLORIDA OCTOBER

SPEEDS GREATER THAN OR EQUAL TO 025 MPS

P ( I SUCCESSES IN J PERIODS )

	I																			
J	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
1	.552																			
2	.637	.478																		
3	.694	.567	.427																	
4	.736	.627	.520	.389																
5	.774	.673	.583	.476	.363															
6	.808	.716	.629	.540	.448	.339														
7	.841	.748	.677	.589	.506	.425	.315													
8	.865	.786	.706	.643	.552	.486	.403	.292												
9	.887	.815	.744	.671	.611	.530	.470	.377	.274											
10	.905	.843	.772	.706	.643	.589	.516	.444	.361	.254										
11	.919	.865	.800	.734	.679	.621	.573	.492	.427	.345	.234									
12	.933	.881	.825	.760	.714	.653	.605	.544	.480	.413	.327	.216								
13	.946	.899	.839	.784	.744	.690	.635	.577	.530	.470	.397	.310	.198							
14	.956	.911	.857	.800	.772	.724	.667	.605	.563	.520	.458	.381	.294	.181						
15	.964	.921	.873	.819	.792	.754	.698	.637	.589	.554	.508	.444	.369	.274	.169					
16	.970	.929	.889	.839	.808	.776	.730	.667	.621	.583	.544	.492	.435	.349	.262	.157				
17	.976	.933	.903	.859	.831	.790	.758	.698	.653	.613	.575	.530	.482	.417	.339	.244	.151			
18	.982	.938	.911	.879	.851	.813	.774	.732	.685	.643	.605	.560	.522	.462	.409	.321	.234	.145		
19	.988	.942	.917	.891	.873	.833	.798	.750	.724	.673	.635	.589	.554	.506	.450	.395	.308	.222	.141	
20	.992	.948	.923	.901	.885	.857	.821	.774	.746	.710	.667	.619	.581	.544	.494	.431	.387	.290	.216	.137
21	.994	.954	.929	.911	.895	.869	.849	.796	.770	.738	.700	.655	.607	.573	.536	.476	.417	.373	.278	.212
22	.996	.958	.938	.919	.907	.881	.861	.827	.792	.764	.730	.688	.643	.597	.567	.522	.462	.399	.359	.272
23	.998	.962	.946	.927	.917	.891	.875	.841	.823	.788	.754	.722	.675	.633	.589	.554	.512	.440	.383	.331
24	1.00	.966	.954	.935	.925	.903	.885	.859	.837	.819	.778	.746	.716	.663	.623	.577	.546	.490	.423	.371
25	1.00	.972	.960	.946	.932	.911	.899	.871	.857	.833	.808	.770	.742	.710	.653	.607	.571	.522	.474	.413
26	1.00	.974	.970	.954	.944	.919	.907	.887	.869	.855	.823	.800	.766	.738	.702	.637	.599	.548	.500	.448
27	1.00	.976	.972	.966	.952	.929	.915	.899	.885	.867	.847	.815	.796	.762	.732	.688	.627	.579	.522	.490
28	1.00	.978	.974	.968	.966	.938	.925	.909	.897	.883	.859	.841	.810	.792	.758	.718	.679	.607	.548	.512
29	1.00	.980	.976	.970	.968	.954	.933	.921	.907	.895	.875	.853	.839	.806	.788	.748	.708	.661	.577	.538
30	1.00	.982	.978	.972	.970	.958	.952	.931	.919	.905	.887	.869	.851	.837	.802	.780	.740	.688	.633	.567
31	1.00	.984	.980	.974	.972	.962	.956	.952	.929	.917	.899	.883	.865	.849	.835	.798	.770	.720	.659	.627
32	1.00	.986	.982	.976	.974	.966	.960	.956	.952	.927	.913	.897	.879	.861	.847	.833	.794	.750	.690	.653
33	1.00	.988	.984	.978	.976	.970	.964	.960	.956	.952	.925	.911	.895	.873	.859	.845	.831	.778	.718	.683
34	1.00	.990	.986	.980	.978	.974	.968	.964	.960	.956	.952	.923	.909	.889	.871	.857	.843	.819	.748	.710
35	1.00	.992	.988	.982	.980	.978	.972	.968	.964	.960	.956	.952	.921	.903	.887	.869	.855	.833	.792	.740
36	1.00	.994	.990	.984	.982	.980	.976	.972	.968	.964	.960	.956	.952	.915	.901	.885	.867	.847	.808	.786
37	1.00	.996	.992	.986	.984	.982	.980	.976	.972	.968	.964	.960	.956	.948	.913	.899	.883	.859	.825	.802
38	1.00	.998	.994	.988	.986	.984	.982	.980	.976	.972	.968	.964	.960	.952	.948	.911	.897	.873	.839	.819
39	1.00	1.00	.996	.990	.988	.986	.984	.982	.980	.976	.972	.968	.964	.956	.952	.948	.909	.889	.855	.837
40	1.00	1.00	1.00	.992	.990	.988	.986	.984	.982	.980	.976	.972	.968	.960	.956	.952	.948	.903	.867	.833

TOTAL OBSERVATIONS 496

TABLE 10. 4.b. P(W ≥ W\*) I LAUNCH OPPORTUNITIES IN J PERIODS (W\* = 25 M/SEC).  
 BASED ON MAXIMUM WIND SPEEDS IN THE 10-15 KM LAYER OVER CAPE KENNEDY, FLORIDA.  
 PERIOD OF RECORD JANUARY 1956 - DECEMBER 1963.

CAPE KENNEDY . FLORIDA OCTOBER

SPEEDS GREATER THAN OR EQUAL TO 030 MPS

PC ( I CONSECUTIVE SUCCESSES IN J PERIODS )

J	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
1	.399																			
2	.488	.317																		
3	.558	.381	.260																	
4	.613	.448	.308	.220																
5	.657	.502	.359	.260	.185															
6	.696	.546	.411	.302	.218	.159														
7	.730	.585	.456	.347	.250	.188	.135													
8	.764	.619	.494	.393	.282	.216	.161	.113												
9	.792	.649	.532	.431	.317	.244	.188	.135	.095											
10	.821	.679	.567	.466	.351	.274	.214	.157	.109	.083										
11	.847	.710	.599	.498	.383	.304	.242	.179	.123	.097	.071									
12	.873	.736	.625	.529	.413	.337	.270	.204	.137	.111	.083	.060								
13	.899	.762	.649	.556	.442	.371	.300	.228	.153	.125	.095	.073	.050							
14	.919	.788	.671	.581	.470	.403	.333	.254	.169	.141	.107	.085	.058	.044						
15	.935	.813	.694	.605	.498	.433	.365	.282	.188	.157	.121	.097	.067	.050	.040					
16	.948	.835	.716	.627	.522	.462	.395	.310	.208	.175	.135	.111	.075	.056	.044	.038				
17	.958	.855	.738	.649	.546	.490	.423	.339	.228	.196	.151	.125	.085	.063	.048	.042	.036			
18	.964	.869	.758	.671	.569	.516	.450	.365	.248	.216	.169	.141	.095	.071	.052	.046	.040	.034		
19	.970	.881	.776	.694	.589	.542	.476	.389	.268	.236	.188	.159	.107	.079	.058	.050	.044	.038	.032	
20	.976	.889	.792	.714	.609	.565	.500	.413	.288	.256	.206	.177	.121	.089	.065	.056	.048	.042	.034	.032
21	.980	.897	.808	.734	.627	.589	.524	.438	.306	.278	.224	.196	.135	.101	.073	.063	.054	.046	.036	.034
22	.984	.903	.825	.754	.645	.611	.544	.460	.325	.298	.244	.214	.149	.113	.083	.071	.060	.052	.038	.036
23	.988	.909	.839	.774	.663	.633	.565	.482	.343	.317	.264	.234	.163	.125	.093	.081	.069	.058	.042	.038
24	.992	.915	.853	.792	.681	.653	.583	.502	.359	.336	.284	.254	.179	.137	.103	.091	.079	.065	.046	.042
25	.996	.921	.867	.810	.700	.673	.601	.522	.375	.353	.302	.274	.196	.151	.113	.101	.089	.073	.050	.046
26	.998	.927	.881	.829	.718	.694	.617	.540	.389	.369	.321	.294	.212	.165	.125	.111	.099	.081	.056	.050
27	1.00	.933	.895	.845	.736	.712	.633	.558	.403	.385	.339	.313	.228	.179	.137	.123	.109	.089	.063	.056
28	1.00	.940	.905	.861	.754	.730	.649	.575	.417	.399	.355	.331	.244	.194	.149	.135	.121	.097	.069	.063
29	1.00	.946	.915	.875	.772	.748	.667	.591	.431	.413	.371	.349	.258	.208	.161	.147	.133	.105	.075	.069
30	1.00	.950	.925	.887	.790	.766	.685	.609	.446	.427	.385	.365	.272	.222	.173	.150	.145	.113	.081	.075
31	1.00	.954	.935	.897	.808	.784	.704	.627	.462	.442	.399	.381	.286	.234	.185	.171	.157	.121	.087	.081
32	1.00	.958	.944	.907	.823	.802	.722	.645	.478	.458	.413	.395	.298	.246	.198	.183	.169	.129	.093	.087
33	1.00	.962	.952	.917	.837	.819	.740	.663	.494	.474	.429	.409	.310	.258	.208	.196	.181	.137	.099	.093
34	1.00	.966	.958	.925	.851	.833	.756	.681	.510	.490	.446	.425	.321	.268	.218	.208	.194	.145	.105	.099
35	1.00	.970	.964	.931	.863	.847	.772	.698	.526	.506	.462	.442	.333	.278	.228	.218	.206	.153	.111	.105
36	1.00	.974	.970	.938	.871	.859	.784	.714	.540	.522	.478	.458	.345	.290	.238	.228	.218	.161	.117	.111
37	1.00	.978	.974	.944	.879	.869	.794	.730	.554	.536	.494	.474	.357	.302	.250	.238	.228	.169	.123	.117
38	1.00	.982	.978	.950	.887	.877	.802	.742	.567	.550	.508	.490	.369	.315	.262	.248	.238	.177	.129	.123
39	1.00	.986	.982	.956	.895	.885	.810	.754	.579	.565	.522	.504	.381	.327	.274	.258	.248	.183	.135	.129
40	1.00	.988	.986	.962	.903	.893	.817	.766	.591	.577	.536	.518	.391	.339	.286	.268	.258	.190	.141	.135

TOTAL OBSERVATIONS 496

TABLE 10. S. a. P(W ≥ W\*) I CONSECUTIVE LAUNCH OPPORTUNITIES IN J PERIODS (W\* = 30 M/SEC).  
 BASED ON MAXIMUM WIND SPEEDS IN THE 10-15 KM LAYER OVER CAPE KENNEDY, FLORIDA.

PERIOD OF RECORD JANUARY 1956 - DECEMBER 1963.

CAPE KENNEDY , FLORIDA OCTOBER

SPEEDS GREATER THAN OR EQUAL TO 030 MPS

P ( I SUCCESSES IN J PERIODS )

	I																			
J	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
1	.399																			
2	.488	.317																		
3	.558	.401	.260																	
4	.613	.472	.341	.220																
5	.657	.528	.409	.302	.185															
6	.696	.573	.466	.377	.262	.159														
7	.730	.613	.508	.438	.335	.232	.135													
8	.764	.643	.546	.484	.397	.306	.202	.113												
9	.792	.677	.579	.518	.456	.365	.276	.173	.095											
10	.821	.706	.613	.546	.494	.429	.333	.250	.143	.083										
11	.847	.734	.641	.577	.524	.472	.397	.306	.220	.123	.071									
12	.873	.758	.669	.601	.558	.506	.435	.375	.274	.202	.103	.060								
13	.899	.782	.694	.625	.583	.548	.466	.415	.343	.258	.181	.085	.050							
14	.919	.806	.718	.645	.609	.575	.510	.446	.387	.323	.242	.161	.065	.044						
15	.935	.833	.742	.665	.631	.601	.538	.492	.419	.367	.300	.226	.135	.052	.040					
16	.948	.859	.768	.688	.653	.623	.571	.514	.470	.405	.343	.278	.204	.115	.044	.038				
17	.958	.875	.802	.710	.677	.645	.599	.544	.490	.460	.385	.317	.252	.188	.097	.042	.036			
18	.964	.893	.823	.746	.700	.669	.621	.577	.516	.482	.442	.359	.286	.236	.173	.085	.040	.034		
19	.970	.903	.845	.772	.734	.692	.647	.601	.548	.506	.468	.417	.323	.268	.224	.165	.073	.038	.032	
20	.976	.911	.861	.796	.762	.726	.671	.627	.577	.536	.492	.448	.377	.302	.252	.220	.155	.063	.034	.032
21	.980	.919	.873	.817	.786	.754	.708	.651	.607	.565	.522	.472	.407	.353	.286	.244	.214	.145	.052	.034
22	.984	.927	.881	.835	.808	.776	.738	.688	.631	.597	.550	.502	.429	.381	.335	.278	.234	.208	.135	.046
23	.988	.933	.891	.849	.827	.798	.762	.718	.667	.621	.589	.526	.460	.401	.361	.327	.270	.226	.202	.123
24	.992	.940	.901	.861	.845	.819	.784	.742	.700	.655	.615	.567	.482	.429	.379	.353	.319	.260	.222	.192
25	.996	.946	.911	.873	.859	.841	.808	.764	.722	.690	.647	.595	.520	.452	.405	.371	.345	.310	.254	.216
26	.998	.954	.919	.887	.871	.855	.835	.788	.744	.714	.679	.629	.546	.488	.429	.395	.361	.339	.306	.248
27	1.00	.960	.929	.899	.885	.867	.851	.819	.764	.736	.708	.659	.583	.506	.468	.421	.381	.357	.333	.304
28	1.00	.966	.938	.911	.897	.881	.863	.839	.796	.754	.732	.692	.609	.538	.484	.464	.403	.377	.353	.329
29	1.00	.968	.950	.921	.909	.895	.875	.855	.817	.786	.750	.720	.643	.560	.514	.482	.446	.397	.371	.351
30	1.00	.970	.956	.938	.919	.907	.889	.867	.839	.804	.784	.740	.673	.593	.536	.510	.464	.442	.391	.367
31	1.00	.972	.962	.946	.938	.917	.901	.881	.855	.825	.802	.778	.696	.623	.567	.532	.490	.460	.438	.385
32	1.00	.974	.966	.954	.946	.938	.911	.895	.871	.841	.821	.800	.736	.647	.595	.560	.512	.484	.456	.431
33	1.00	.976	.970	.960	.954	.946	.933	.907	.883	.859	.835	.819	.762	.688	.621	.589	.540	.500	.480	.448
34	1.00	.978	.974	.966	.960	.954	.942	.933	.893	.875	.851	.833	.780	.718	.659	.619	.571	.520	.498	.470
35	1.00	.980	.978	.970	.966	.960	.950	.942	.921	.887	.869	.847	.794	.742	.683	.659	.609	.542	.516	.492
36	1.00	.982	.980	.974	.970	.966	.956	.950	.931	.917	.881	.865	.808	.762	.704	.681	.653	.581	.536	.508
37	1.00	.984	.982	.978	.974	.970	.962	.956	.942	.927	.911	.877	.827	.782	.722	.698	.681	.623	.575	.524
38	1.00	.986	.984	.982	.978	.974	.968	.962	.950	.938	.923	.907	.841	.804	.740	.714	.698	.659	.615	.558
39	1.00	.988	.986	.984	.982	.978	.972	.968	.956	.950	.935	.919	.871	.825	.760	.730	.714	.677	.655	.599
40	1.00	.990	.988	.986	.984	.982	.976	.972	.962	.956	.950	.931	.885	.859	.778	.748	.730	.696	.675	.641

TOTAL OBSERVATIONS 496

TABLE 10. S.b.  $P(N \geq M)$  I LAUNCH OPPORTUNITIES IN J PERIODS ( $M = 30$  M/SEC).  
 BASED ON MAXIMUM WIND SPEEDS IN THE 10-15 KM LAYER OVER CAPE KENNEDY, FLORIDA.  
 PERIOD OF RECORD JANUARY 1956 - DECEMBER 1963.



CAPE KENNEDY, FLORIDA OCTOBER  
SPEEDS GREATER THAN OR EQUAL TO 035 MPS

PC ( I CONSECUTIVE SUCCESSES IN J PERIODS )

J	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
1	.280																			
2	.357	.210																		
3	.419	.262	.163																	
4	.472	.317	.204	.129																
5	.514	.367	.246	.163	.099															
6	.554	.407	.292	.200	.125	.075														
7	.593	.442	.337	.236	.151	.093	.058													
8	.629	.474	.371	.274	.177	.111	.071	.048												
9	.663	.504	.403	.308	.206	.129	.083	.058	.040											
10	.696	.532	.433	.335	.234	.149	.095	.069	.048	.032										
11	.728	.560	.462	.359	.262	.169	.107	.079	.056	.040	.024									
12	.758	.587	.488	.381	.288	.192	.119	.089	.065	.048	.032	.016								
13	.788	.611	.512	.403	.313	.212	.133	.099	.073	.056	.040	.024	.008							
14	.813	.635	.534	.425	.337	.237	.147	.111	.081	.065	.048	.032	.012	.004						
15	.837	.659	.556	.446	.363	.252	.159	.123	.089	.073	.056	.040	.016	.008	.000					
16	.859	.679	.579	.466	.391	.274	.171	.135	.097	.081	.065	.048	.020	.012	.000	.000				
17	.879	.700	.601	.482	.417	.296	.185	.145	.105	.089	.073	.056	.024	.016	.000	.000	.000			
18	.897	.718	.619	.500	.440	.319	.200	.157	.117	.097	.081	.065	.028	.020	.000	.000	.000	.000		
19	.913	.734	.637	.518	.462	.339	.216	.169	.123	.105	.089	.073	.032	.024	.000	.000	.000	.000	.000	.000
20	.923	.750	.653	.536	.484	.357	.232	.183	.133	.115	.097	.081	.036	.028	.000	.000	.000	.000	.000	.000
21	.931	.766	.669	.552	.504	.375	.246	.198	.145	.125	.107	.089	.040	.032	.000	.000	.000	.000	.000	.000
22	.940	.780	.685	.569	.522	.393	.260	.212	.157	.137	.117	.099	.044	.036	.000	.000	.000	.000	.000	.000
23	.948	.794	.702	.585	.540	.411	.274	.224	.169	.140	.129	.109	.050	.040	.000	.000	.000	.000	.000	.000
24	.956	.808	.718	.601	.558	.427	.290	.236	.181	.161	.141	.121	.056	.046	.000	.000	.000	.000	.000	.030
25	.964	.823	.734	.617	.577	.444	.304	.250	.192	.173	.153	.133	.065	.052	.002	.000	.000	.000	.000	.000
26	.970	.837	.750	.635	.595	.460	.317	.264	.204	.185	.165	.145	.073	.060	.004	.002	.000	.000	.000	.000
27	.974	.851	.766	.653	.615	.478	.329	.276	.216	.198	.177	.157	.081	.069	.006	.004	.002	.000	.000	.000
28	.978	.865	.782	.671	.635	.498	.341	.288	.228	.210	.190	.169	.089	.077	.008	.006	.004	.002	.000	.000
29	.982	.879	.796	.690	.655	.518	.355	.300	.238	.222	.200	.181	.097	.085	.010	.008	.006	.004	.002	.000
30	.984	.893	.808	.706	.675	.538	.367	.315	.248	.234	.210	.194	.105	.093	.012	.010	.008	.006	.004	.002
31	.986	.907	.821	.720	.696	.558	.379	.329	.260	.244	.220	.204	.113	.101	.014	.012	.010	.008	.006	.004
32	.988	.917	.833	.734	.712	.579	.391	.341	.272	.256	.230	.214	.121	.109	.016	.014	.012	.010	.008	.006
33	.990	.925	.845	.748	.728	.597	.403	.353	.284	.268	.240	.224	.127	.117	.018	.016	.014	.012	.010	.008
34	.992	.933	.855	.762	.744	.613	.413	.365	.294	.280	.250	.236	.133	.125	.020	.018	.016	.014	.012	.010
35	.994	.942	.865	.774	.758	.627	.423	.375	.304	.292	.260	.244	.141	.131	.022	.020	.018	.016	.014	.012
36	.996	.950	.873	.786	.770	.641	.433	.385	.313	.302	.270	.256	.149	.139	.024	.022	.020	.018	.016	.014
37	.998	.956	.881	.798	.782	.653	.444	.395	.321	.310	.280	.266	.157	.147	.026	.024	.022	.020	.018	.016
38	1.00	.960	.889	.810	.794	.665	.454	.405	.329	.319	.286	.276	.165	.155	.028	.026	.024	.022	.020	.018
39	1.00	.964	.897	.823	.806	.677	.464	.415	.337	.327	.292	.284	.173	.163	.030	.028	.026	.024	.022	.020
40	1.00	.968	.903	.835	.819	.690	.474	.425	.345	.335	.298	.290	.179	.171	.032	.030	.028	.026	.024	.022

TOTAL OBSERVATIONS 496

TABLE 10. G. a.  $P(W \geq W^*)$  I CONSECUTIVE LAUNCH OPPORTUNITIES IN J PERIODS ( $W^* = 35$  M/SEC).  
BASED ON MAXIMUM WIND SPEEDS IN THE 10-15 KM LAYER OVER CAPE KENNEDY, FLORIDA.  
PERIOD OF RECORD JANUARY 1956 - DECEMBER 1963.

CAPE KENNEDY, FLORIDA OCTOBER  
SPEFDS GREATER THAN OR EQUAL TO 035 MPS

P ( I SUCCESSES IN J PERIODS )

J	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
1	.280																			
2	.357	.210																		
3	.419	.278	.163																	
4	.472	.341	.226	.129																
5	.514	.393	.294	.185	.099															
6	.554	.431	.347	.267	.145	.075														
7	.593	.466	.383	.315	.222	.111	.058													
8	.629	.500	.415	.347	.282	.173	.091	.048												
9	.663	.532	.448	.377	.321	.228	.141	.081	.040											
10	.696	.565	.476	.409	.353	.272	.185	.121	.073	.032										
11	.728	.591	.508	.435	.389	.306	.230	.159	.103	.065	.024									
12	.758	.617	.532	.466	.419	.343	.268	.206	.133	.087	.056	.016								
13	.788	.641	.556	.486	.452	.375	.302	.250	.183	.109	.073	.048	.008							
14	.813	.669	.581	.506	.472	.409	.339	.280	.238	.155	.091	.060	.036	.004						
15	.837	.690	.613	.526	.492	.429	.373	.319	.266	.214	.133	.075	.046	.030	.000					
16	.859	.712	.633	.558	.512	.450	.393	.351	.308	.244	.190	.113	.058	.040	.020	.000				
17	.879	.732	.657	.581	.542	.470	.413	.369	.345	.290	.220	.163	.093	.050	.028	.016	.000			
18	.897	.750	.679	.605	.567	.498	.433	.387	.365	.329	.274	.192	.137	.081	.038	.022	.012	.000		
19	.913	.768	.702	.625	.593	.522	.460	.403	.395	.353	.315	.252	.161	.123	.065	.030	.014	.010	.000	
20	.923	.788	.722	.649	.615	.548	.482	.425	.401	.375	.345	.290	.222	.147	.105	.054	.016	.012	.008	.000
21	.931	.804	.744	.671	.641	.571	.508	.444	.421	.391	.373	.323	.256	.212	.125	.097	.032	.014	.010	.006
22	.940	.819	.764	.696	.665	.595	.530	.466	.438	.411	.389	.355	.292	.242	.140	.115	.071	.028	.012	.008
23	.948	.833	.782	.720	.688	.621	.556	.482	.460	.427	.409	.373	.331	.276	.220	.175	.087	.063	.026	.010
24	.956	.847	.800	.744	.710	.643	.583	.504	.474	.452	.425	.395	.351	.319	.254	.200	.143	.081	.056	.024
25	.964	.861	.819	.766	.734	.665	.607	.522	.494	.466	.452	.413	.371	.345	.300	.232	.163	.131	.077	.050
26	.970	.875	.837	.788	.756	.688	.631	.540	.510	.486	.466	.442	.389	.365	.337	.280	.192	.149	.121	.073
27	.974	.891	.853	.810	.778	.710	.653	.560	.526	.500	.486	.458	.417	.383	.359	.325	.236	.177	.137	.111
28	.978	.903	.871	.831	.800	.732	.671	.581	.544	.514	.500	.480	.433	.411	.377	.347	.284	.222	.161	.125
29	.982	.915	.885	.853	.821	.754	.690	.599	.563	.530	.514	.494	.458	.427	.405	.367	.306	.270	.204	.149
30	.984	.929	.897	.871	.845	.776	.708	.617	.579	.546	.530	.508	.472	.454	.423	.395	.329	.288	.252	.190
31	.986	.940	.911	.885	.865	.804	.726	.635	.597	.563	.544	.524	.486	.468	.454	.415	.353	.313	.270	.238
32	.988	.946	.923	.901	.881	.829	.750	.653	.615	.581	.558	.540	.500	.482	.468	.450	.373	.333	.300	.254
33	.990	.952	.931	.917	.897	.849	.772	.677	.633	.599	.573	.556	.514	.496	.482	.464	.411	.349	.323	.282
34	.992	.958	.940	.927	.913	.867	.790	.702	.657	.617	.587	.573	.528	.510	.494	.478	.431	.381	.339	.306
35	.994	.964	.948	.935	.925	.885	.806	.722	.683	.639	.601	.587	.544	.524	.510	.492	.450	.403	.365	.323
36	.996	.968	.954	.944	.933	.901	.823	.734	.708	.667	.615	.601	.558	.540	.524	.506	.468	.421	.385	.349
37	.998	.972	.958	.952	.946	.913	.843	.752	.726	.692	.637	.615	.573	.554	.540	.520	.482	.444	.399	.373
38	1.00	.976	.962	.958	.952	.931	.859	.770	.744	.710	.659	.633	.587	.569	.554	.536	.494	.460	.421	.389
39	1.00	.980	.966	.962	.958	.942	.879	.792	.762	.728	.675	.657	.603	.581	.569	.550	.512	.476	.435	.415
40	1.00	.984	.970	.966	.962	.952	.889	.819	.782	.748	.692	.673	.627	.595	.581	.567	.528	.490	.452	.427

TOTAL OBSERVATIONS 496

TABLE 10. 8.b. P(W ≥ W\*) I LAUNCH OPPORTUNITIES IN J PERIODS (W\* = 35 M/SEC).  
BASED ON MAXIMUM WIND SPEEDS IN THE 10-15 KM LAYER OVER CAPE KENNEDY, FLORIDA.  
PERIOD OF RECORD JANUARY 1956 - DECEMBER 1963.

CAPE KENNEDY , FLORIDA OCTOBER

SPEFDS GREATER THAN OR EQUAL TO 040 MPS

PC ( I CONSECUTIVF SUCCESSES IN J PERIODS )

	I																			
J	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
1	.181																			
2	.244	.121																		
3	.296	.163	.081																	
4	.343	.208	.109	.054																
5	.381	.246	.137	.071	.038															
6	.419	.282	.167	.087	.050	.026														
7	.456	.313	.192	.105	.063	.034	.018													
8	.488	.343	.218	.123	.077	.042	.024	.012												
9	.516	.373	.242	.143	.091	.050	.030	.018	.006											
10	.544	.401	.266	.165	.107	.058	.036	.024	.010	.002										
11	.571	.427	.290	.183	.125	.067	.042	.030	.014	.004	.000									
12	.593	.452	.315	.202	.143	.077	.048	.036	.018	.006	.000	.000								
13	.615	.474	.341	.220	.159	.087	.056	.042	.022	.008	.000	.000	.000							
14	.635	.496	.365	.240	.175	.097	.065	.050	.026	.010	.000	.000	.000	.000						
15	.655	.518	.389	.260	.194	.107	.073	.058	.030	.012	.000	.000	.000	.000	.000					
16	.675	.538	.411	.282	.212	.119	.081	.067	.034	.014	.000	.000	.000	.000	.000	.000				
17	.696	.558	.431	.302	.230	.131	.091	.075	.038	.016	.000	.000	.000	.000	.000	.000	.000			
18	.714	.581	.452	.321	.248	.145	.101	.085	.042	.018	.000	.000	.000	.000	.000	.000	.000	.000		
19	.732	.603	.474	.339	.264	.159	.113	.095	.048	.020	.000	.000	.000	.000	.000	.000	.000	.000	.000	
20	.748	.625	.496	.355	.280	.173	.125	.107	.054	.024	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
21	.764	.645	.518	.371	.296	.188	.137	.119	.063	.028	.002	.000	.000	.000	.000	.000	.000	.000	.000	.000
22	.780	.661	.540	.387	.313	.202	.149	.131	.071	.034	.004	.002	.000	.000	.000	.000	.000	.000	.000	.000
23	.796	.677	.563	.401	.327	.218	.161	.143	.079	.040	.006	.004	.000	.000	.000	.000	.000	.000	.000	.000
24	.813	.694	.583	.415	.341	.232	.175	.155	.087	.046	.008	.006	.000	.000	.000	.000	.000	.000	.000	.000
25	.829	.710	.603	.429	.353	.246	.190	.169	.095	.052	.010	.008	.000	.000	.000	.000	.000	.000	.000	.000
26	.843	.724	.621	.446	.365	.260	.204	.183	.105	.058	.012	.010	.000	.000	.000	.000	.000	.000	.000	.000
27	.857	.738	.639	.462	.377	.272	.218	.198	.115	.065	.014	.012	.000	.000	.000	.000	.000	.000	.000	.000
28	.871	.752	.657	.478	.389	.284	.232	.212	.125	.071	.016	.014	.000	.000	.000	.000	.000	.000	.000	.000
29	.885	.766	.673	.494	.401	.296	.246	.226	.135	.077	.018	.016	.000	.000	.000	.000	.000	.000	.000	.000
30	.899	.780	.690	.510	.413	.308	.258	.242	.145	.083	.020	.018	.000	.000	.000	.000	.000	.000	.000	.000
31	.909	.794	.706	.526	.425	.321	.270	.256	.157	.089	.022	.020	.000	.000	.000	.000	.000	.000	.000	.000
32	.919	.808	.722	.542	.438	.333	.282	.268	.169	.097	.024	.022	.000	.000	.000	.000	.000	.000	.000	.000
33	.927	.821	.736	.558	.450	.345	.294	.280	.181	.105	.028	.024	.000	.000	.000	.000	.000	.000	.000	.000
34	.935	.831	.748	.575	.462	.357	.306	.292	.192	.113	.032	.028	.000	.000	.000	.000	.000	.000	.000	.000
35	.944	.841	.760	.589	.474	.369	.319	.304	.202	.121	.036	.032	.000	.000	.000	.000	.000	.000	.000	.000
36	.952	.849	.772	.603	.486	.381	.331	.317	.212	.127	.040	.036	.000	.000	.000	.000	.000	.000	.000	.000
37	.958	.857	.784	.617	.498	.393	.343	.329	.222	.133	.044	.040	.000	.000	.000	.000	.000	.000	.000	.000
38	.962	.865	.796	.631	.510	.405	.355	.341	.232	.139	.048	.044	.000	.000	.000	.000	.000	.000	.000	.000
39	.964	.873	.808	.643	.522	.417	.367	.353	.242	.145	.052	.048	.000	.000	.000	.000	.000	.000	.000	.000
40	.970	.879	.821	.655	.532	.429	.379	.365	.252	.151	.056	.052	.000	.000	.000	.000	.000	.000	.000	.000

TOTAL OBSERVATIONS 496

TABLE 10. 7. a. P(W ≥ W\*) I CONSECUTIVE LAUNCH OPPORTUNITIES IN J PERIODS (W\* = 40 M/SEC).

BASED ON MAXIMUM WIND SPEEDS IN THE 10-15 KM LAYER OVER CAPE KENNEDY, FLORIDA.

PERIOD OF RECORD JANUARY 1956 - DECEMBER 1963.

CAPE KENNEDY, FLORIDA OCTOBER  
SPEEDS GREATER THAN OR EQUAL TO 040 MPS

P ( I SUCCESSES IN J PERIODS )

	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
1	.01																			
2	.244	.121																		
3	.296	.177	.081																	
4	.343	.224	.129	.054																
5	.381	.272	.165	.093	.038															
6	.419	.304	.212	.121	.071	.026														
7	.456	.341	.236	.165	.091	.054	.018													
8	.488	.381	.262	.183	.135	.069	.044	.012												
9	.516	.419	.294	.202	.157	.105	.056	.036	.006											
10	.544	.450	.331	.228	.175	.125	.091	.044	.026	.002										
11	.571	.482	.357	.260	.200	.141	.109	.075	.034	.016	.000									
12	.593	.510	.389	.282	.230	.163	.125	.091	.060	.022	.008	.000								
13	.615	.536	.413	.317	.252	.192	.147	.105	.077	.042	.014	.002	.000							
14	.635	.563	.435	.339	.290	.218	.171	.125	.091	.058	.028	.004	.000	.000						
15	.655	.585	.460	.359	.310	.266	.196	.147	.109	.071	.042	.012	.000	.000	.000					
16	.675	.607	.480	.383	.327	.292	.242	.173	.131	.085	.050	.024	.004	.000	.000	.000				
17	.696	.627	.504	.405	.345	.310	.270	.216	.161	.105	.060	.028	.014	.002	.000	.000	.000			
18	.714	.649	.528	.429	.365	.327	.296	.242	.200	.137	.077	.034	.018	.010	.000	.000	.000	.000		
19	.732	.671	.550	.452	.389	.345	.317	.268	.226	.171	.109	.046	.024	.012	.006	.000	.000	.000	.000	
20	.748	.696	.571	.474	.411	.365	.339	.286	.254	.198	.143	.075	.036	.014	.008	.004	.000	.000	.000	.000
21	.764	.712	.597	.492	.438	.381	.359	.306	.276	.226	.169	.107	.065	.020	.010	.006	.002	.000	.000	.000
22	.780	.728	.613	.520	.458	.403	.375	.325	.296	.250	.194	.137	.099	.040	.016	.008	.004	.000	.000	.000
23	.796	.744	.629	.538	.488	.421	.397	.345	.313	.266	.218	.161	.133	.071	.032	.010	.006	.000	.000	.000
24	.813	.762	.645	.554	.510	.450	.415	.371	.329	.280	.236	.183	.157	.107	.058	.022	.008	.000	.000	.000
25	.829	.780	.661	.571	.526	.474	.444	.393	.351	.296	.250	.202	.175	.139	.095	.040	.018	.000	.000	.000
26	.843	.798	.677	.587	.542	.490	.472	.421	.369	.321	.264	.218	.194	.155	.133	.073	.034	.004	.000	.000
27	.857	.817	.692	.603	.558	.506	.488	.454	.393	.341	.286	.230	.212	.173	.145	.115	.063	.014	.002	.000
28	.871	.835	.706	.617	.575	.522	.504	.476	.421	.367	.302	.250	.226	.194	.159	.127	.103	.036	.010	.000
29	.885	.851	.720	.631	.589	.536	.522	.496	.444	.391	.329	.264	.246	.212	.175	.137	.115	.079	.026	.004
30	.899	.867	.734	.645	.603	.550	.536	.518	.466	.409	.357	.284	.260	.234	.192	.151	.121	.099	.063	.020
31	.909	.885	.748	.659	.617	.565	.550	.534	.492	.429	.377	.308	.278	.248	.214	.165	.131	.109	.083	.052
32	.919	.899	.764	.673	.631	.579	.565	.548	.512	.458	.397	.323	.304	.264	.228	.185	.143	.121	.089	.079
33	.927	.911	.778	.690	.645	.593	.579	.563	.530	.482	.421	.339	.319	.290	.244	.200	.159	.135	.097	.085
34	.935	.921	.790	.706	.659	.607	.593	.577	.546	.504	.444	.359	.333	.306	.268	.216	.171	.151	.109	.091
35	.944	.929	.802	.718	.675	.623	.607	.591	.560	.522	.472	.381	.359	.323	.284	.238	.185	.161	.117	.097
36	.952	.938	.810	.730	.685	.641	.623	.605	.575	.538	.496	.405	.387	.339	.300	.254	.204	.173	.139	.109
37	.958	.946	.819	.738	.698	.655	.639	.621	.589	.554	.518	.427	.387	.359	.319	.270	.216	.190	.151	.117
38	.962	.956	.827	.746	.710	.669	.653	.635	.605	.571	.540	.446	.409	.373	.333	.290	.230	.202	.167	.123
39	.966	.960	.841	.754	.722	.683	.667	.647	.621	.587	.560	.466	.427	.397	.347	.306	.248	.216	.179	.133
40	.970	.964	.851	.766	.732	.698	.681	.659	.633	.603	.579	.486	.450	.415	.369	.323	.264	.232	.192	.143

TOTAL OBSERVATIONS 496

TABLE 10. 7.b. P(N ≥ W) I LAUNCH OPPORTUNITIES IN J PERIODS (W = 40 M/SEC).  
BASED ON MAXIMUM WIND SPEEDS IN THE 10-15 KM LAYER OVER CAPE KENNEDY, FLORIDA.  
PERIOD OF RECORD JANUARY 1956 - DECEMBER 1963.

CAPE KENNEDY, FLORIDA OCTOBER  
SPEEDS GREATER THAN OR EQUAL TO 045 MPS

PC ( I CONSECUTIVE SUCCESSES IN J PERIODS )

J	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
1	.103																			
2	.143	.065																		
3	.181	.091	.038																	
4	.214	.117	.054	.022																
5	.250	.141	.071	.030	.014															
6	.286	.167	.087	.038	.020	.008														
7	.321	.196	.103	.044	.026	.014	.002													
8	.351	.224	.121	.056	.032	.020	.004	.000												
9	.381	.248	.139	.069	.038	.026	.006	.000	.000											
10	.405	.272	.157	.081	.046	.032	.008	.000	.000	.000										
11	.429	.296	.173	.093	.054	.038	.010	.000	.000	.000	.000									
12	.450	.319	.190	.105	.063	.044	.012	.000	.000	.000	.000	.000								
13	.472	.341	.206	.115	.071	.050	.014	.000	.000	.000	.000	.000	.000							
14	.494	.365	.222	.125	.079	.056	.016	.000	.000	.000	.000	.000	.000	.000						
15	.512	.387	.242	.135	.087	.063	.018	.000	.000	.000	.000	.000	.000	.000	.000					
16	.530	.409	.260	.149	.095	.069	.020	.000	.000	.000	.000	.000	.000	.000	.000	.000				
17	.546	.429	.276	.163	.105	.075	.022	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000			
18	.567	.450	.294	.177	.115	.081	.024	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000		
19	.585	.472	.310	.192	.125	.087	.026	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	
20	.603	.494	.329	.206	.137	.093	.028	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
21	.621	.516	.347	.222	.147	.101	.030	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
22	.639	.538	.365	.238	.159	.109	.034	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
23	.657	.560	.383	.254	.171	.119	.038	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
24	.675	.585	.401	.270	.183	.129	.044	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
25	.692	.609	.419	.284	.196	.139	.050	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
26	.706	.629	.438	.298	.208	.149	.056	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
27	.720	.649	.456	.313	.218	.159	.063	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
28	.734	.665	.470	.327	.228	.169	.069	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
29	.748	.681	.484	.341	.238	.179	.075	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
30	.762	.698	.498	.357	.248	.190	.081	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
31	.774	.714	.512	.373	.260	.200	.087	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
32	.786	.728	.526	.389	.272	.212	.093	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
33	.796	.742	.540	.405	.284	.224	.101	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
34	.806	.754	.554	.421	.296	.236	.109	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
35	.817	.766	.569	.438	.308	.248	.117	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
36	.827	.776	.583	.454	.321	.260	.125	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
37	.837	.786	.597	.470	.333	.272	.133	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
38	.847	.796	.611	.486	.345	.284	.141	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
39	.857	.806	.625	.502	.357	.296	.149	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
40	.867	.817	.639	.518	.369	.308	.157	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000

TOTAL OBSERVATIONS 496

TABLE 10, &c. P(W ≥ W<sub>0</sub>) I CONSECUTIVE LAUNCH OPPORTUNITIES IN J PERIODS (W<sub>0</sub> = 45 M/SEC).  
BASED ON MAXIMUM WIND SPEEDS IN THE 10-15 KM LAYER OVER CAPE KENNEDY, FLORIDA.  
PERIOD OF RECORD JANUARY 1956 - DECEMBER 1963.

CAPE KENNEDY, FLORIDA OCTOBER  
SPEEDS GREATER THAN OR EQUAL TO 045 MPS

P ( I SUCCESSSES IN J PERIODS )

	I																			
J	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
1	.103																			
2	.143	.065																		
3	.181	.093	.038																	
4	.214	.125	.058	.022																
5	.250	.151	.079	.030	.014															
6	.286	.181	.099	.044	.026	.008														
7	.321	.212	.125	.052	.032	.020	.002													
8	.351	.242	.151	.069	.038	.026	.010	.000												
9	.381	.268	.175	.091	.044	.032	.014	.004	.000											
10	.405	.298	.200	.107	.065	.038	.018	.006	.002	.000										
11	.429	.321	.230	.123	.077	.052	.022	.008	.004	.000	.000									
12	.450	.347	.256	.141	.089	.060	.034	.010	.006	.000	.000	.000								
13	.472	.369	.288	.157	.103	.069	.038	.020	.008	.000	.000	.000	.000							
14	.494	.391	.317	.181	.115	.079	.042	.024	.016	.000	.000	.000	.000	.000						
15	.512	.415	.345	.204	.135	.087	.048	.028	.020	.004	.000	.000	.000	.000	.000					
16	.530	.435	.373	.228	.157	.101	.054	.032	.024	.006	.002	.000	.000	.000	.000	.000				
17	.548	.458	.395	.254	.177	.123	.063	.038	.028	.008	.004	.000	.000	.000	.000	.000	.000			
18	.567	.480	.419	.276	.200	.139	.081	.044	.034	.010	.006	.000	.000	.000	.000	.000	.000	.000		
19	.585	.502	.444	.296	.222	.159	.095	.058	.038	.014	.008	.000	.000	.000	.000	.000	.000	.000	.000	
20	.603	.524	.468	.319	.240	.183	.111	.073	.048	.014	.010	.000	.000	.000	.000	.000	.000	.000	.000	.000
21	.621	.544	.492	.339	.262	.200	.137	.087	.060	.026	.012	.000	.000	.000	.000	.000	.000	.000	.000	.000
22	.639	.565	.514	.361	.280	.220	.151	.117	.073	.034	.016	.000	.000	.000	.000	.000	.000	.000	.000	.000
23	.657	.585	.538	.383	.296	.236	.171	.131	.103	.042	.020	.000	.000	.000	.000	.000	.000	.000	.000	.000
24	.675	.605	.563	.409	.313	.248	.190	.149	.119	.069	.024	.000	.000	.000	.000	.000	.000	.000	.000	.000
25	.692	.627	.583	.435	.335	.260	.202	.169	.135	.087	.042	.000	.000	.000	.000	.000	.000	.000	.000	.000
26	.706	.647	.603	.458	.355	.282	.214	.183	.153	.103	.058	.008	.000	.000	.000	.000	.000	.000	.000	.000
27	.720	.665	.621	.478	.375	.304	.232	.196	.167	.121	.071	.020	.004	.000	.000	.000	.000	.000	.000	.000
28	.734	.683	.637	.496	.395	.325	.250	.214	.177	.135	.087	.028	.014	.002	.000	.000	.000	.000	.000	.000
29	.748	.702	.653	.512	.415	.345	.264	.232	.194	.147	.099	.042	.018	.012	.000	.000	.000	.000	.000	.000
30	.762	.718	.671	.528	.433	.367	.278	.248	.208	.165	.109	.054	.028	.014	.008	.000	.000	.000	.000	.000
31	.774	.736	.685	.548	.452	.385	.296	.262	.224	.179	.123	.067	.040	.018	.010	.006	.000	.000	.000	.000
32	.786	.752	.702	.565	.474	.403	.310	.280	.236	.198	.133	.083	.050	.026	.012	.008	.004	.000	.000	.000
33	.796	.768	.716	.583	.492	.425	.325	.294	.252	.208	.151	.095	.065	.034	.016	.010	.006	.002	.000	.000
34	.806	.782	.730	.601	.510	.446	.341	.308	.264	.222	.163	.109	.079	.044	.022	.012	.008	.004	.000	.000
35	.817	.792	.746	.619	.528	.466	.357	.323	.276	.232	.179	.119	.089	.060	.030	.014	.010	.006	.000	.000
36	.827	.802	.758	.637	.548	.486	.373	.337	.288	.242	.192	.133	.097	.069	.048	.016	.012	.008	.000	.000
37	.837	.813	.768	.653	.569	.506	.391	.351	.300	.252	.204	.145	.107	.075	.056	.030	.014	.010	.000	.000
38	.847	.823	.778	.669	.589	.524	.407	.369	.315	.262	.216	.157	.117	.081	.065	.036	.024	.012	.000	.000
39	.857	.833	.788	.685	.609	.542	.423	.381	.335	.272	.228	.169	.127	.087	.071	.044	.028	.020	.000	.000
40	.867	.843	.798	.698	.631	.560	.440	.393	.347	.290	.240	.181	.137	.093	.077	.050	.034	.022	.004	.000

TOTAL OBSERVATIONS 496

TABLE 10. S.b. P(N ≥ W) I LAUNCH OPPORTUNITIES IN J PERIODS (W = 45 M/SEC).  
BASED ON MAXIMUM WIND SPEEDS IN THE 10-15 KM LAYER OVER CAPE KENNEDY, FLORIDA.  
PERIOD OF RECORD JANUARY 1956 - DECEMBER 1963.

CAPE KENNEDY, FLORIDA OCTOBER

SPEEDS GREATER THAN OR EQUAL TO 50 MPH

PC ( I CONSECUTIVE SUCCESSES IN J PERIODS )

J	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
1	.069																			
2	.097	.040																		
3	.123	.056	.024																	
4	.147	.073	.034	.014																
5	.173	.087	.044	.018	.010															
6	.202	.103	.054	.022	.014	.006														
7	.228	.121	.063	.026	.018	.010	.002													
8	.252	.139	.073	.030	.022	.014	.004	.000												
9	.276	.155	.083	.036	.026	.018	.006	.000	.000											
10	.298	.171	.093	.042	.032	.022	.008	.000	.000	.000										
11	.321	.188	.103	.048	.038	.026	.010	.000	.000	.000	.000									
12	.341	.204	.113	.054	.044	.030	.012	.000	.000	.000	.000	.000								
13	.361	.220	.123	.060	.050	.034	.014	.000	.000	.000	.000	.000	.000							
14	.383	.236	.133	.067	.054	.038	.016	.000	.000	.000	.000	.000	.000	.000						
15	.403	.252	.143	.073	.063	.042	.018	.000	.000	.000	.000	.000	.000	.000	.000					
16	.421	.266	.153	.079	.069	.046	.020	.000	.000	.000	.000	.000	.000	.000	.000	.000				
17	.440	.280	.163	.085	.075	.050	.022	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000			
18	.458	.294	.175	.091	.081	.054	.024	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000		
19	.478	.308	.185	.099	.087	.058	.026	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	
20	.498	.325	.196	.107	.095	.063	.028	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
21	.518	.341	.206	.115	.103	.069	.030	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
22	.538	.357	.216	.123	.111	.075	.034	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
23	.558	.373	.226	.131	.119	.081	.038	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
24	.579	.389	.236	.139	.127	.087	.042	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
25	.597	.405	.246	.147	.135	.093	.046	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
26	.615	.421	.256	.155	.143	.099	.050	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
27	.633	.435	.266	.163	.151	.105	.054	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
28	.649	.452	.276	.171	.159	.111	.058	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
29	.665	.468	.286	.179	.167	.117	.063	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
30	.681	.484	.300	.190	.175	.123	.067	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
31	.698	.504	.313	.200	.185	.129	.071	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
32	.712	.520	.325	.210	.196	.137	.075	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
33	.726	.536	.337	.220	.204	.145	.079	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
34	.740	.548	.349	.230	.216	.153	.083	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
35	.754	.563	.361	.240	.226	.161	.087	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
36	.768	.577	.373	.250	.236	.169	.091	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
37	.780	.591	.385	.260	.246	.177	.095	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
38	.792	.605	.397	.270	.256	.185	.099	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
39	.804	.619	.409	.280	.266	.194	.103	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
40	.817	.633	.421	.290	.276	.202	.107	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000

TOTAL OBSERVATIONS 496

TABLE 10. S. S. P(W ≥ W<sub>0</sub>) I CONSECUTIVE LAUNCH OPPORTUNITIES IN J PERIODS (W<sub>0</sub> = 50 M/SEC).  
 BASED ON MAXIMUM WIND SPEEDS IN THE 0-15 KM LAYER OVER CAPE KENNEDY, FLORIDA.  
 PERIOD OF RECORD JANUARY 1956 - DECEMBER 1963.

CAPE KENNEDY, FLORIDA OCTOBER  
SPEEDS GREATER THAN OR EQUAL TO 050 MPS

P ( I SUCCESSES IN J PERIODS )

J	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
1	.069																			
2	.097	.040																		
3	.123	.058	.024																	
4	.147	.075	.038	.014																
5	.173	.093	.046	.024	.010															
6	.202	.113	.054	.028	.020	.006														
7	.228	.137	.063	.032	.024	.016	.002													
8	.252	.157	.079	.036	.028	.020	.010	.000												
9	.276	.175	.093	.046	.032	.024	.014	.004	.000											
10	.298	.196	.107	.052	.042	.028	.018	.006	.002	.000										
11	.321	.214	.123	.058	.048	.036	.022	.008	.004	.000	.000									
12	.341	.234	.137	.067	.054	.040	.030	.010	.006	.000	.000	.000								
13	.361	.252	.153	.073	.063	.044	.034	.016	.008	.000	.000	.000	.000							
14	.383	.272	.167	.081	.069	.050	.038	.020	.012	.000	.000	.000	.000	.000						
15	.403	.290	.185	.087	.077	.054	.044	.024	.016	.000	.000	.000	.000	.000	.000					
16	.421	.306	.208	.095	.083	.060	.050	.028	.020	.000	.000	.000	.000	.000	.000	.000				
17	.440	.323	.224	.111	.089	.067	.056	.034	.024	.000	.000	.000	.000	.000	.000	.000	.000			
18	.458	.339	.240	.121	.103	.073	.063	.040	.030	.000	.000	.000	.000	.000	.000	.000	.000	.000		
19	.478	.355	.254	.135	.109	.087	.069	.046	.034	.002	.000	.000	.000	.000	.000	.000	.000	.000	.000	
20	.498	.375	.268	.145	.121	.095	.081	.054	.038	.004	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
21	.518	.395	.282	.155	.129	.109	.089	.067	.042	.006	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
22	.538	.413	.300	.165	.137	.119	.103	.077	.048	.008	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
23	.558	.431	.317	.179	.145	.129	.113	.091	.054	.010	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
24	.579	.450	.333	.192	.155	.139	.123	.099	.067	.012	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
25	.597	.470	.351	.204	.165	.149	.133	.107	.073	.020	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
26	.615	.486	.371	.218	.173	.159	.145	.115	.079	.028	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
27	.633	.504	.389	.232	.183	.167	.155	.127	.085	.036	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
28	.649	.522	.407	.248	.192	.177	.163	.137	.093	.046	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
29	.665	.540	.427	.262	.204	.185	.173	.143	.103	.056	.002	.000	.000	.000	.000	.000	.000	.000	.000	.000
30	.681	.556	.450	.278	.216	.196	.181	.151	.109	.071	.004	.000	.000	.000	.000	.000	.000	.000	.000	.000
31	.698	.573	.466	.300	.228	.208	.190	.159	.115	.079	.012	.000	.000	.000	.000	.000	.000	.000	.000	.000
32	.712	.591	.482	.315	.248	.220	.200	.165	.123	.087	.018	.002	.000	.000	.000	.000	.000	.000	.000	.000
33	.726	.609	.498	.329	.260	.240	.210	.171	.129	.097	.024	.004	.000	.000	.000	.000	.000	.000	.000	.000
34	.740	.627	.514	.343	.272	.254	.226	.177	.135	.103	.034	.006	.000	.000	.000	.000	.000	.000	.000	.000
35	.754	.645	.530	.357	.284	.266	.240	.188	.141	.109	.044	.008	.000	.000	.000	.000	.000	.000	.000	.000
36	.768	.663	.546	.371	.296	.278	.250	.200	.149	.115	.054	.010	.000	.000	.000	.000	.000	.000	.000	.000
37	.780	.681	.563	.385	.308	.290	.260	.208	.161	.121	.065	.012	.000	.000	.000	.000	.000	.000	.000	.000
38	.792	.700	.579	.399	.321	.302	.270	.216	.169	.131	.075	.014	.000	.000	.000	.000	.000	.000	.000	.000
39	.804	.718	.593	.415	.333	.315	.280	.224	.177	.137	.089	.016	.000	.000	.000	.000	.000	.000	.000	.000
40	.817	.734	.607	.427	.349	.327	.290	.232	.185	.143	.097	.024	.000	.000	.000	.000	.000	.000	.000	.000

TOTAL OBSERVATIONS 496

TABLE 10. 9.b. P(W ≥ W\*) I LAUNCH OPPORTUNITIES IN J PERIODS (W\* = 50 M/SEC).  
BASED ON MAXIMUM WIND SPEEDS IN THE 10-15 KM LAYER OVER CAPE KENNEDY, FLORIDA.

PERIOD OF RECORD JANUARY 1956 - DECEMBER 1963.



CAPE KENNEDY, FLORIDA OCTOBER

SPEEDS GREATER THAN OR EQUAL TO 055 MPS

PC ( I CONSECUTIVE SUCCESSES IN J PERIODS )

J	I																			
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
1	.034																			
2	.052	.016																		
3	.067	.028	.004																	
4	.079	.040	.008	.000																
5	.093	.048	.012	.000	.000															
6	.107	.056	.016	.000	.000	.000														
7	.121	.065	.020	.000	.000	.000	.000													
8	.135	.075	.024	.000	.000	.000	.000	.000												
9	.149	.083	.030	.000	.000	.000	.000	.000	.000											
10	.163	.091	.036	.000	.000	.000	.000	.000	.000	.000										
11	.177	.099	.042	.000	.000	.000	.000	.000	.000	.000	.000									
12	.192	.107	.048	.000	.000	.000	.000	.000	.000	.000	.000	.000								
13	.206	.115	.054	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000							
14	.222	.123	.060	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000						
15	.238	.131	.067	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000					
16	.252	.139	.073	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000				
17	.268	.147	.079	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000			
18	.284	.157	.085	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000		
19	.300	.167	.093	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	
20	.317	.177	.101	.002	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
21	.333	.188	.109	.004	.002	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
22	.349	.198	.117	.006	.004	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
23	.365	.208	.125	.008	.006	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
24	.381	.218	.133	.010	.008	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
25	.395	.228	.141	.012	.010	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
26	.409	.238	.149	.014	.012	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
27	.425	.248	.157	.016	.014	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
28	.440	.260	.165	.018	.016	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
29	.454	.272	.175	.020	.018	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
30	.468	.284	.185	.024	.020	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
31	.480	.296	.196	.028	.024	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
32	.492	.308	.206	.032	.028	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
33	.504	.321	.216	.036	.032	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
34	.516	.333	.226	.040	.036	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
35	.528	.345	.236	.044	.040	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
36	.540	.357	.246	.048	.044	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
37	.552	.369	.256	.052	.048	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
38	.565	.381	.266	.056	.052	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
39	.577	.393	.276	.060	.056	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
40	.589	.405	.286	.065	.060	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000

TOTAL OBSERVATIONS 496

TABLE 10.10.a. P(W ≥ W\*) I CONSECUTIVE LAUNCH OPPORTUNITIES IN J PERIODS (W\* = 55 M/SEC).  
 BASED ON MAXIMUM WIND SPEEDS IN THE 10-15 KM LAYER OVER CAPE KENNEDY, FLORIDA.  
 PERIOD OF RECORD JANUARY 1956 - DECEMBER 1963.

CAPF KENNEDY . FLORIDA OCTOBER  
 SPEEDS GREATER THAN OR EQUAL TO 055 MPS

P ( I SUCCESSES IN J PERIODS )

	I																			
J	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
1	.034																			
2	.052	.016																		
3	.067	.032	.004																	
4	.079	.042	.016	.000																
5	.093	.048	.024	.008	.000															
6	.107	.056	.030	.014	.004	.000														
7	.121	.067	.034	.022	.008	.000	.000													
8	.135	.075	.042	.026	.016	.000	.000	.000												
9	.149	.083	.050	.032	.020	.004	.000	.000	.000											
10	.163	.091	.056	.040	.024	.006	.002	.000	.000	.000										
11	.177	.099	.063	.044	.032	.008	.004	.000	.000	.000	.000									
12	.192	.107	.069	.048	.036	.014	.006	.000	.000	.000	.000	.000								
13	.206	.115	.075	.052	.040	.018	.010	.000	.000	.000	.000	.000	.000							
14	.222	.125	.081	.056	.044	.022	.014	.000	.000	.000	.000	.000	.000	.000						
15	.238	.133	.089	.060	.048	.026	.018	.000	.000	.000	.000	.000	.000	.000	.000					
16	.252	.143	.097	.065	.052	.030	.022	.000	.000	.000	.000	.000	.000	.000	.000	.000				
17	.268	.151	.107	.069	.056	.034	.026	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000			
18	.284	.161	.117	.075	.060	.038	.030	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000		
19	.300	.171	.129	.081	.065	.042	.034	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	
20	.317	.181	.139	.091	.069	.046	.038	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
21	.333	.192	.149	.099	.077	.050	.042	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
22	.349	.202	.159	.107	.085	.054	.046	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
23	.365	.212	.169	.115	.091	.060	.050	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
24	.381	.222	.179	.123	.097	.065	.056	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
25	.395	.234	.190	.131	.103	.069	.060	.002	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
26	.409	.244	.202	.139	.109	.073	.065	.004	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
27	.425	.254	.212	.149	.115	.077	.069	.006	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
28	.440	.266	.222	.159	.121	.081	.073	.008	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
29	.454	.278	.234	.167	.129	.085	.077	.010	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
30	.468	.290	.246	.177	.135	.091	.081	.012	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
31	.480	.304	.258	.188	.143	.097	.085	.014	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
32	.492	.317	.272	.198	.151	.103	.089	.016	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
33	.504	.329	.284	.210	.159	.107	.095	.018	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
34	.516	.341	.296	.220	.169	.111	.099	.022	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
35	.528	.353	.308	.230	.177	.117	.103	.026	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
36	.540	.365	.321	.240	.185	.123	.107	.030	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
37	.552	.377	.333	.250	.194	.129	.111	.034	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
38	.565	.389	.345	.260	.202	.139	.115	.038	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
39	.577	.401	.357	.270	.210	.141	.119	.042	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
40	.589	.413	.369	.280	.218	.147	.123	.046	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000

TOTAL OBSERVATIONS 496

TABLE 10.10.b. P(W ≥ W\*) I LAUNCH OPPORTUNITIES IN J PERIODS (W\* = 55 M/SEC).  
 BASED ON MAXIMUM WIND SPEEDS IN THE 10-15 KM LAYER OVER CAPE KENNEDY, FLORIDA.  
 PERIOD OF RECORD JANUARY 1956 - DECEMBER 1963.

CAPE KENNEDY . FLORIDA OCTOBER

SPEEDS GREATER THAN OR EQUAL TO 060 MPS

PC ( I CONSECUTIVE SUCCESSES IN J PERIODS )

	I																			
J	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
1	.014																			
2	.022	.006																		
3	.028	.010	.002																	
4	.034	.014	.004	.000																
5	.040	.018	.006	.000	.000															
6	.046	.022	.008	.000	.000	.000														
7	.054	.026	.010	.000	.000	.000	.000													
8	.063	.032	.012	.000	.000	.000	.000	.000												
9	.071	.038	.016	.000	.000	.000	.000	.000	.000											
10	.077	.044	.020	.000	.000	.000	.000	.000	.000	.000										
11	.083	.050	.024	.000	.000	.000	.000	.000	.000	.000	.000									
12	.089	.056	.028	.000	.000	.000	.000	.000	.000	.000	.000	.000								
13	.095	.063	.032	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000							
14	.103	.069	.036	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000						
15	.111	.075	.040	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000					
16	.119	.081	.044	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000				
17	.129	.087	.048	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000			
18	.139	.095	.052	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000		
19	.149	.103	.058	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	
20	.159	.111	.065	.002	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
21	.169	.119	.071	.004	.002	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
22	.179	.127	.077	.006	.004	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
23	.190	.135	.083	.008	.006	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
24	.200	.143	.089	.010	.008	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
25	.210	.151	.095	.012	.010	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
26	.220	.159	.101	.014	.012	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
27	.232	.167	.107	.016	.014	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
28	.244	.177	.113	.018	.016	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
29	.256	.188	.121	.020	.018	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
30	.268	.198	.129	.024	.020	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
31	.280	.208	.137	.028	.022	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
32	.292	.218	.145	.032	.024	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
33	.304	.228	.153	.036	.026	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
34	.317	.238	.161	.040	.028	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
35	.329	.248	.169	.044	.030	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
36	.341	.258	.177	.048	.032	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
37	.353	.268	.185	.052	.034	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
38	.365	.278	.194	.056	.036	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
39	.377	.288	.202	.060	.038	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
40	.389	.298	.210	.064	.040	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000

TOTAL OBSERVATIONS 496

TABLE 10.11 . P(W ≥ W\*) I CONSECUTIVE LAUNCH OPPORTUNITIES IN J PERIODS (W\* = 60 M/SEC).  
 BASED ON MAXIMUM WIND SPEEDS IN THE 10-15 KM LAYER OVER CAPE KENNEDY, FLORIDA.  
 PERIOD OF RECORD JANUARY 1956 - DECEMBER 1963.

CAPE KENNEDY , FLORIDA OCTOBER  
 SPEFDS GREATER THAN OR EQUAL TO 060 MPS

P ( I SUCCESSES IN J PERIODS )

	I																			
J	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
1	.014																			
2	.022	.006																		
3	.028	.012	.002																	
4	.034	.016	.006	.000																
5	.040	.022	.010	.000	.000															
6	.046	.028	.014	.000	.000	.000														
7	.054	.032	.020	.000	.000	.000	.000													
8	.063	.038	.024	.002	.000	.000	.000	.000												
9	.071	.044	.030	.004	.000	.000	.000	.000	.000											
10	.077	.052	.036	.006	.000	.000	.000	.000	.000	.000										
11	.083	.058	.044	.008	.000	.000	.000	.000	.000	.000	.000									
12	.089	.065	.050	.012	.000	.000	.000	.000	.000	.000	.000	.000								
13	.095	.071	.056	.016	.000	.000	.000	.000	.000	.000	.000	.000	.000							
14	.103	.077	.063	.020	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000						
15	.111	.083	.069	.024	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000					
16	.119	.089	.075	.028	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000				
17	.129	.095	.081	.032	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000			
18	.139	.103	.087	.038	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000		
19	.149	.111	.095	.044	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	
20	.159	.119	.103	.052	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
21	.169	.127	.111	.060	.002	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
22	.179	.135	.119	.069	.004	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
23	.190	.143	.127	.077	.006	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
24	.200	.151	.135	.085	.008	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
25	.210	.159	.143	.093	.010	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
26	.220	.167	.151	.101	.012	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
27	.232	.175	.159	.109	.014	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
28	.244	.185	.167	.117	.016	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
29	.256	.196	.177	.125	.018	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
30	.268	.206	.188	.135	.020	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
31	.280	.216	.198	.143	.022	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
32	.292	.226	.208	.155	.024	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
33	.304	.236	.218	.165	.026	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
34	.317	.246	.228	.175	.028	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
35	.329	.256	.238	.185	.030	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
36	.341	.266	.248	.196	.032	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
37	.353	.276	.258	.206	.034	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
38	.365	.286	.268	.216	.036	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
39	.377	.296	.278	.226	.038	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
40	.389	.306	.288	.236	.040	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000

TOTAL OBSERVATIONS 496

TABLE 10.11.b. P(M ≥ W) I LAUNCH OPPORTUNITIES IN J PERIODS (W = 60 M/SEC).  
 BASED ON MAXIMUM WIND SPEEDS IN THE 10-15 KM LAYER OVER CAPE KENNEDY, FLORIDA.  
 PERIOD OF RECORD JANUARY 1956 - DECEMBER 1963.

CAPE KENNEDY, FLORIDA OCTOBER

SPEEDS GREATER THAN OR EQUAL TO 065 MPS

PC ( I CONSECUTIVE SUCCESSES IN J PERIODS )

	I																			
J	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
1	.008																			
2	.014	.002																		
3	.018	.004	.000																	
4	.022	.006	.000	.000																
5	.026	.008	.000	.000	.000															
6	.030	.010	.000	.000	.000	.000														
7	.034	.012	.000	.000	.000	.000	.000													
8	.040	.014	.000	.000	.000	.000	.000	.000												
9	.046	.018	.000	.000	.000	.000	.000	.000	.000											
10	.052	.022	.000	.000	.000	.000	.000	.000	.000	.000										
11	.058	.026	.000	.000	.000	.000	.000	.000	.000	.000	.000									
12	.065	.030	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000								
13	.071	.034	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000							
14	.077	.038	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000						
15	.083	.042	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000					
16	.089	.046	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000				
17	.097	.050	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000			
18	.105	.056	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000		
19	.113	.063	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	
20	.121	.069	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
21	.129	.075	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
22	.137	.081	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
23	.145	.087	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
24	.153	.093	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
25	.161	.099	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
26	.169	.105	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
27	.179	.111	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
28	.190	.119	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
29	.200	.127	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
30	.210	.135	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
31	.220	.143	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
32	.230	.151	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
33	.240	.159	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
34	.250	.167	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
35	.260	.175	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
36	.270	.183	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
37	.280	.192	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
38	.290	.200	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
39	.300	.208	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
40	.310	.216	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000

TOTAL OBSERVATIONS 496

TABLE 10, 12, a, P(W ≥ W\*) I CONSECUTIVE LAUNCH OPPORTUNITIES IN J PERIODS (W\* = 65 M/SEC).  
 BASED ON MAXIMUM WIND SPEEDS IN THE 10-15 KM LAYER OVER CAPE KENNEDY, FLORIDA.  
 PERIOD OF RECORD JANUARY 1956 - DECEMBER 1963.

CAPF KENNEDY , FLORIDA OCTOBER  
 SPEEDS GREATER THAN OR EQUAL TO 065 MPS

P ( I SUCCESSES IN J PERIODS )

J	I																			
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
1	.008																			
2	.014	.002																		
3	.018	.006	.000																	
4	.022	.008	.002	.000																
5	.026	.010	.004	.000	.000															
6	.030	.012	.006	.000	.000	.000														
7	.034	.014	.008	.000	.000	.000	.000													
8	.040	.016	.010	.000	.000	.000	.000	.000												
9	.046	.020	.012	.000	.000	.000	.000	.000	.000											
10	.052	.024	.014	.000	.000	.000	.000	.000	.000	.000										
11	.058	.028	.016	.000	.000	.000	.000	.000	.000	.000	.000									
12	.065	.032	.018	.000	.000	.000	.000	.000	.000	.000	.000	.000								
13	.071	.036	.020	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000							
14	.077	.040	.022	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000						
15	.083	.044	.024	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000					
16	.089	.048	.026	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000				
17	.097	.052	.028	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000			
18	.105	.058	.030	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000		
19	.113	.065	.032	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	
20	.121	.071	.034	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
21	.129	.077	.038	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
22	.137	.083	.042	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
23	.145	.089	.046	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
24	.153	.095	.050	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
25	.161	.101	.054	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
26	.169	.107	.058	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
27	.179	.113	.063	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
28	.190	.121	.067	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
29	.200	.129	.071	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
30	.210	.137	.077	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
31	.220	.145	.083	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
32	.230	.153	.089	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
33	.240	.161	.095	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
34	.250	.169	.101	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
35	.260	.177	.107	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
36	.270	.185	.113	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
37	.280	.194	.119	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
38	.290	.202	.125	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
39	.300	.210	.131	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
40	.310	.218	.137	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000

TOTAL OBSERVATIONS 496

TABLE 10.12.b. P(W ≥ W\*) I LAUNCH OPPORTUNITIES IN J PERIODS (W\* = 65 M/SEC).  
 BASED ON MAXIMUM WIND SPEEDS IN THE 10-15 KM LAYER OVER CAPE KENNEDY, FLORIDA.  
 PERIOD OF RECORD JANUARY 1956 - DECEMBER 1963.

CAPF KENNEDY . FLORIDA NOVEMBER  
SPEEDS GREATER THAN OR EQUAL TO 015 MPS

PC ( I CONSECUTIVE SUCCESSES IN J PERIODS )

	I																			
J	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
1	.969																			
2	.988	.950																		
3	.998	.969	.933																	
4	1.00	.988	.950	.919																
5	1.00	.998	.967	.935	.904															
6	1.00	1.00	.983	.952	.921	.890														
7	1.00	1.00	.992	.969	.938	.906	.875													
8	1.00	1.00	.996	.983	.954	.923	.892	.860												
9	1.00	1.00	.998	.992	.969	.940	.908	.877	.846											
10	1.00	1.00	1.00	.996	.983	.954	.925	.894	.860	.835										
11	1.00	1.00	1.00	.998	.992	.969	.940	.910	.875	.850	.827									
12	1.00	1.00	1.00	1.00	.996	.973	.954	.925	.890	.865	.842	.819								
13	1.00	1.00	1.00	1.00	.998	.992	.969	.940	.902	.879	.856	.833	.810							
14	1.00	1.00	1.00	1.00	1.00	.996	.983	.954	.915	.892	.871	.848	.825	.802						
15	1.00	1.00	1.00	1.00	1.00	.998	.992	.969	.927	.904	.883	.863	.840	.817	.794					
16	1.00	1.00	1.00	1.00	1.00	1.00	.996	.983	.940	.917	.896	.875	.854	.831	.808	.785				
17	1.00	1.00	1.00	1.00	1.00	1.00	.998	.992	.952	.929	.908	.888	.867	.846	.823	.800	.777			
18	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.996	.965	.942	.921	.900	.879	.858	.838	.815	.792	.767		
19	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.998	.973	.954	.933	.913	.892	.871	.850	.829	.806	.781	.756	
20	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.977	.967	.946	.925	.904	.883	.863	.842	.821	.796	.769	.748
21	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.979	.975	.958	.938	.917	.896	.875	.854	.833	.810	.781	.760
22	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.981	.977	.969	.950	.929	.908	.888	.867	.846	.823	.794	.773
23	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.983	.979	.975	.960	.942	.921	.900	.879	.858	.835	.804	.785
24	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.985	.981	.977	.969	.952	.933	.913	.892	.871	.848	.815	.796
25	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.988	.983	.979	.975	.960	.944	.925	.904	.883	.860	.825	.806
26	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.990	.985	.981	.977	.969	.952	.935	.917	.896	.873	.835	.817
27	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.992	.988	.983	.979	.975	.960	.944	.927	.908	.885	.846	.827
28	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.994	.990	.985	.981	.977	.969	.952	.935	.919	.898	.856	.838
29	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.996	.992	.988	.983	.979	.975	.960	.944	.927	.908	.867	.848
30	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.998	.994	.990	.985	.981	.977	.969	.952	.935	.917	.875	.858
31	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.996	.992	.988	.983	.979	.975	.960	.944	.925	.881	.867	
32	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.998	.994	.990	.985	.981	.977	.969	.952	.933	.888	.873	
33	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.996	.992	.988	.983	.979	.975	.960	.942	.894	.879	
34	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.998	.994	.990	.985	.981	.977	.969	.950	.900	.885	
35	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.996	.992	.988	.983	.979	.975	.958	.904	.892	
36	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.998	.994	.990	.985	.981	.977	.969	.913	.898	
37	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.996	.992	.988	.983	.979	.975	.921	.904	
38	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.998	.994	.990	.985	.981	.977	.929	.913
39	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.996	.992	.988	.983	.979	.933	.921
40	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.998	.994	.990	.985	.981	.938	.929

TOTAL OBSERVATIONS 480

TABLE 11. 1, a, P(W ≥ W<sub>0</sub>) I CONSECUTIVE LAUNCH OPPORTUNITIES IN J PERIODS (W<sub>0</sub> = 15 M/SEC).  
BASED ON MAXIMUM WIND SPEEDS IN THE 10-15 KM LAYER OVER CAPE KENNEDY, FLORIDA.

PERIOD OF RECORD JANUARY 1956 - DECEMBER 1963.

CAPE KENNEDY, FLORIDA NOVEMBER  
SPEEDS GREATER THAN OR EQUAL TO 015 MPS

P ( I SUCCESSES IN J PERIODS )

	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
1	.969																			
2	.988	.950																		
3	.998	.977	.933																	
4	1.00	.996	.967	.919																
5	1.00	1.00	.992	.958	.904															
6	1.00	1.00	1.00	.988	.950	.890														
7	1.00	1.00	1.00	1.00	.983	.942	.875													
8	1.00	1.00	1.00	1.00	1.00	.979	.933	.860												
9	1.00	1.00	1.00	1.00	1.00	1.00	.975	.925	.846											
10	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.971	.915	.835										
11	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.965	.908	.827									
12	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.960	.902	.819								
13	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.956	.896	.810							
14	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.954	.890	.802							
15	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.952	.883	.794							
16	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.950	.877	.785							
17	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.948	.871	.777							
18	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.946	.865	.767							
19	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.944	.858	.756							
20	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.942	.850	.748							
21	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.935	.846								
22	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.931									
23	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.925									
24	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.919									
25	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.915									
26	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.910									
27	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.908									
28	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.902									
29	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.900									
30	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.896									
31	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.890									
32	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.883									
33	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.877									
34	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.871									
35	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.865									
36	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.858									
37	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.850									
38	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.846									
39	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.840									
40	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.835									

TOTAL OBSERVATIONS 480

TABLE 11. 1.6. P(W ≥ W0) I LAUNCH OPPORTUNITIES IN J PERIODS (W0 = 15 M/SEC).  
BASED ON MAXIMUM WIND SPEEDS IN THE 10-15 KM LAYER OVER CAPE KENNEDY, FLORIDA.  
PERIOD OF RECORD JANUARY 1956 - DECEMBER 1963.



CAPE KENNEDY, FLORIDA NOVEMBER  
SPEEDS GREATER THAN OR EQUAL TO 020 MPS

PC ( I CONSECUTIVE SUCCESSES IN J PERIODS )

	I																			
J	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
1	.900																			
2	.935	.867																		
3	.954	.896	.840																	
4	.963	.925	.865	.817																
5	.967	.944	.890	.842	.794															
6	.971	.956	.915	.867	.819	.771														
7	.975	.965	.931	.892	.844	.794	.750													
8	.977	.971	.946	.915	.869	.817	.773	.727												
9	.979	.975	.958	.931	.892	.840	.796	.750	.706											
10	.981	.977	.969	.946	.915	.860	.819	.773	.729	.685										
11	.983	.979	.975	.958	.931	.881	.840	.796	.752	.708	.667									
12	.985	.981	.977	.969	.946	.902	.860	.817	.775	.731	.688	.650								
13	.988	.983	.979	.975	.958	.919	.881	.838	.796	.754	.708	.671	.633							
14	.990	.985	.981	.977	.969	.935	.902	.858	.817	.775	.729	.692	.654	.617						
15	.992	.988	.983	.979	.975	.950	.919	.879	.838	.796	.748	.713	.675	.635	.600					
16	.994	.990	.985	.981	.977	.963	.935	.900	.858	.817	.767	.731	.696	.654	.619	.583				
17	.996	.992	.988	.983	.979	.971	.950	.919	.879	.838	.785	.750	.715	.673	.638	.602	.567			
18	.998	.994	.990	.985	.981	.975	.963	.935	.902	.858	.804	.769	.733	.690	.656	.621	.585	.550		
19	1.00	.996	.992	.988	.983	.979	.971	.950	.921	.881	.823	.788	.752	.706	.673	.640	.604	.567	.535	
20	1.00	.998	.994	.990	.985	.981	.975	.963	.938	.904	.844	.806	.771	.723	.690	.656	.623	.583	.552	.521
21	1.00	1.00	.996	.992	.988	.983	.979	.971	.952	.923	.865	.827	.790	.740	.706	.673	.640	.600	.569	.538
22	1.00	1.00	.998	.994	.990	.985	.981	.975	.965	.940	.885	.848	.810	.756	.723	.690	.656	.615	.585	.554
23	1.00	1.00	1.00	.996	.992	.988	.983	.979	.971	.954	.904	.869	.831	.775	.740	.706	.673	.629	.600	.571
24	1.00	1.00	1.00	.998	.994	.990	.985	.981	.975	.965	.921	.890	.852	.794	.758	.723	.690	.644	.615	.585
25	1.00	1.00	1.00	1.00	.996	.992	.988	.983	.979	.971	.933	.908	.873	.813	.777	.742	.706	.658	.629	.600
26	1.00	1.00	1.00	1.00	.998	.994	.990	.985	.981	.975	.946	.921	.894	.831	.796	.760	.725	.673	.644	.615
27	1.00	1.00	1.00	1.00	1.00	.996	.992	.988	.983	.979	.954	.933	.908	.850	.815	.779	.744	.690	.658	.629
28	1.00	1.00	1.00	1.00	1.00	.998	.994	.990	.985	.981	.960	.944	.921	.867	.833	.798	.763	.706	.675	.644
29	1.00	1.00	1.00	1.00	1.00	1.00	.996	.992	.988	.983	.967	.954	.933	.881	.850	.817	.781	.723	.692	.660
30	1.00	1.00	1.00	1.00	1.00	1.00	.998	.994	.990	.985	.971	.960	.946	.894	.867	.833	.800	.740	.708	.677
31	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.996	.992	.988	.975	.967	.954	.906	.881	.850	.817	.756	.725	.694
32	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.998	.994	.990	.979	.971	.960	.919	.894	.867	.833	.771	.742	.710
33	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.996	.992	.983	.975	.967	.927	.906	.881	.850	.785	.756	.727
34	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.998	.994	.988	.979	.971	.933	.919	.894	.867	.800	.771	.742
35	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.996	.992	.983	.975	.940	.929	.906	.881	.815	.785	.756
36	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.998	.994	.988	.979	.946	.935	.921	.894	.829	.800	.771
37	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.996	.992	.983	.952	.942	.931	.908	.842	.815	.785
38	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.998	.994	.988	.958	.948	.938	.923	.854	.829	.800
39	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.996	.992	.965	.954	.944	.933	.867	.844	.815
40	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.998	.994	.971	.960	.950	.940	.879	.856	.831

TOTAL OBSERVATIONS 480

TABLE 11. 2. P(W ≥ W<sub>0</sub>) I CONSECUTIVE LAUNCH OPPORTUNITIES IN J PERIODS (W<sub>0</sub> = 20 M/SEC).  
BASED ON MAXIMUM WIND SPEEDS IN THE 10-15 KM LAYER OVER CAPE KENNEDY, FLORIDA.  
PERIOD OF RECORD JANUARY 1956 - DECEMBER 1963.

CAPE KENNEDY, FLORIDA NOVEMBER  
SPEEDS GREATER THAN OR EQUAL TO 20 MPS

P ( I SUCCESSES IN J PERIODS )

	I																			
J	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
1	.900																			
2	.935	.867																		
3	.954	.913	.840																	
4	.963	.942	.892	.817																
5	.967	.956	.927	.875	.794															
6	.971	.963	.948	.915	.858	.771														
7	.975	.967	.958	.940	.902	.840	.750													
8	.977	.973	.963	.954	.931	.888	.823	.727												
9	.979	.975	.971	.958	.950	.923	.873	.804	.706											
10	.981	.977	.973	.969	.954	.946	.915	.858	.788	.685										
11	.983	.979	.975	.971	.967	.950	.942	.906	.846	.771	.667									
12	.985	.981	.977	.973	.969	.965	.946	.938	.900	.833	.754	.650								
13	.988	.983	.979	.975	.971	.967	.963	.942	.935	.894	.821	.738	.633							
14	.990	.985	.981	.977	.973	.969	.965	.960	.940	.933	.888	.808	.723	.617						
15	.992	.988	.983	.979	.975	.971	.967	.963	.958	.938	.931	.881	.796	.706	.600					
16	.994	.990	.985	.981	.977	.973	.969	.965	.960	.956	.935	.929	.875	.781	.690	.583				
17	.996	.992	.988	.983	.979	.975	.971	.967	.963	.958	.954	.933	.927	.867	.767	.673	.567			
18	.998	.994	.990	.985	.981	.977	.973	.969	.965	.960	.956	.952	.931	.923	.858	.752	.656	.550		
19	1.00	.996	.992	.988	.983	.979	.975	.971	.967	.963	.958	.954	.950	.927	.919	.850	.738	.638	.535	
20	1.00	1.00	.994	.990	.985	.981	.977	.973	.969	.965	.960	.956	.952	.946	.923	.915	.842	.719	.623	.521
21	1.00	1.00	1.00	.992	.988	.983	.979	.975	.971	.967	.963	.958	.954	.950	.942	.919	.910	.829	.702	.610
22	1.00	1.00	1.00	1.00	.990	.985	.981	.977	.973	.969	.965	.960	.956	.952	.948	.938	.915	.904	.813	.692
23	1.00	1.00	1.00	1.00	1.00	.988	.983	.979	.975	.971	.967	.963	.958	.954	.950	.946	.933	.910	.890	.804
24	1.00	1.00	1.00	1.00	1.00	1.00	.985	.981	.977	.973	.969	.965	.960	.956	.952	.948	.944	.929	.898	.881
25	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.983	.979	.975	.971	.967	.963	.958	.954	.950	.946	.942	.919	.890
26	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.981	.977	.973	.969	.965	.960	.956	.952	.948	.944	.935	.913
27	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.979	.975	.971	.967	.963	.958	.954	.950	.946	.940	.931
28	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.977	.973	.969	.965	.960	.956	.952	.948	.944	.935
29	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.975	.971	.967	.963	.958	.954	.950	.946	.942
30	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.973	.969	.965	.960	.956	.952	.948	.944
31	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.971	.967	.963	.958	.954	.950	.946
32	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.969	.965	.960	.956	.952	.948
33	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.967	.963	.958	.954	.950
34	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.965	.960	.956	.952
35	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.963	.958	.954
36	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.960	.956
37	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.958
38	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
39	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
40	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00

TOTAL OBSERVATIONS 480

TABLE 11. 2b. P(W ≥ W<sub>0</sub>) I LAUNCH OPPORTUNITIES IN J PERIODS (W<sub>0</sub> = 20 M/SEC).  
BASED ON MAXIMUM WIND SPEEDS IN THE 10-15 KM LAYER OVER CAPE KENNEDY, FLORIDA.  
PERIOD OF RECORD JANUARY 1956 - DECEMBER 1963.

CAPE KENNEDY, FLORIDA NOVEMBER

SPEEDS GREATER THAN OR EQUAL TO 025 MPS

PC ( I CONSECUTIVE SUCCESSES IN J PERIODS )

	I																			
J	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
1	.840																			
2	.883	.796																		
3	.910	.833	.760																	
4	.931	.871	.796	.725																
5	.946	.902	.831	.760	.690															
6	.956	.925	.867	.796	.725	.656														
7	.967	.940	.896	.831	.760	.690	.625													
8	.973	.954	.917	.867	.796	.723	.658	.594												
9	.975	.967	.933	.894	.831	.756	.692	.623	.567											
10	.977	.973	.950	.915	.865	.790	.725	.652	.594	.544										
11	.979	.975	.965	.931	.892	.821	.758	.681	.621	.571	.521									
12	.981	.977	.973	.948	.913	.852	.790	.710	.648	.598	.546	.500								
13	.983	.979	.975	.963	.929	.875	.821	.738	.675	.625	.571	.523	.481							
14	.985	.981	.977	.973	.946	.896	.850	.765	.700	.652	.596	.546	.502	.460						
15	.988	.983	.979	.975	.963	.915	.873	.790	.725	.677	.621	.569	.523	.481	.440					
16	.990	.985	.981	.977	.973	.935	.894	.815	.748	.702	.644	.592	.544	.502	.458	.421				
17	.992	.988	.983	.979	.975	.954	.915	.838	.771	.725	.667	.613	.565	.523	.477	.440	.402			
18	.994	.990	.985	.981	.977	.967	.935	.858	.794	.748	.688	.633	.583	.544	.496	.458	.421	.383		
19	.996	.992	.988	.983	.979	.971	.954	.877	.817	.771	.708	.652	.602	.563	.515	.477	.440	.400	.367	
20	.998	.994	.990	.985	.981	.975	.967	.896	.838	.794	.729	.671	.619	.581	.531	.496	.458	.417	.383	.350
21	1.00	.996	.992	.988	.983	.979	.971	.913	.856	.817	.750	.690	.635	.598	.548	.513	.477	.433	.400	.367
22	1.00	.998	.994	.990	.985	.981	.975	.923	.875	.838	.771	.708	.652	.615	.563	.529	.494	.450	.417	.383
23	1.00	1.00	.996	.992	.988	.983	.979	.927	.892	.856	.792	.727	.669	.631	.577	.544	.510	.465	.433	.400
24	1.00	1.00	.998	.994	.990	.985	.981	.931	.902	.875	.813	.746	.685	.648	.592	.558	.525	.479	.448	.417
25	1.00	1.00	1.00	.996	.992	.988	.983	.935	.908	.888	.833	.765	.702	.665	.606	.573	.540	.492	.463	.431
26	1.00	1.00	1.00	.998	.994	.990	.985	.940	.915	.898	.850	.783	.719	.681	.621	.588	.554	.504	.475	.446
27	1.00	1.00	1.00	1.00	.996	.992	.988	.944	.921	.904	.865	.800	.735	.698	.635	.602	.569	.517	.488	.458
28	1.00	1.00	1.00	1.00	.998	.994	.990	.948	.927	.910	.877	.817	.750	.717	.650	.617	.583	.529	.500	.471
29	1.00	1.00	1.00	1.00	1.00	.996	.992	.952	.933	.917	.885	.831	.765	.733	.667	.631	.598	.542	.513	.483
30	1.00	1.00	1.00	1.00	1.00	.998	.994	.956	.940	.923	.894	.844	.779	.748	.683	.648	.613	.554	.525	.496
31	1.00	1.00	1.00	1.00	1.00	1.00	.996	.960	.946	.929	.902	.852	.792	.763	.698	.665	.629	.567	.538	.508
32	1.00	1.00	1.00	1.00	1.00	1.00	.998	.965	.952	.935	.910	.860	.804	.777	.713	.681	.646	.579	.550	.521
33	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.969	.956	.942	.919	.869	.813	.790	.727	.696	.663	.592	.563	.533
34	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.971	.960	.948	.927	.877	.821	.802	.742	.710	.679	.604	.575	.546
35	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.973	.965	.952	.935	.885	.829	.810	.754	.725	.694	.617	.588	.558
36	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.975	.967	.956	.944	.894	.838	.819	.767	.740	.708	.629	.600	.571
37	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.977	.969	.960	.948	.902	.846	.827	.777	.752	.723	.642	.613	.583
38	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.979	.971	.963	.952	.910	.854	.835	.788	.765	.738	.654	.625	.596
39	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.981	.973	.965	.956	.915	.863	.844	.798	.775	.750	.667	.638	.608
40	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.983	.975	.967	.958	.919	.871	.852	.808	.785	.763	.679	.650	.621

TOTAL OBSERVATIONS 480

TABLE 11. 3, a. P(W ≥ W<sub>0</sub>) I CONSECUTIVE LAUNCH OPPORTUNITIES IN J PERIODS (W<sub>0</sub> = 25 M/SEC).

BASED ON MAXIMUM WIND SPEEDS IN THE 10-15 KM LAYER OVER CAPE KENNEDY, FLORIDA.

PERIOD OF RECORD JANUARY 1956 - DECEMBER 1963.

CAPE KENNEDY . FLORIDA NOVEMBER  
SPEEDS GREATER THAN OR EQUAL TO J25 MPS

P ( I SUCCESSES IN J PERIODS )

	I																			
J	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
1	.840																			
2	.883	.796																		
3	.910	.850	.760																	
4	.931	.888	.819	.725																
5	.946	.915	.865	.790	.690															
6	.956	.933	.896	.846	.760	.656														
7	.967	.946	.919	.879	.825	.731	.625													
8	.973	.960	.935	.904	.860	.800	.706	.594												
9	.975	.971	.954	.925	.888	.838	.779	.677	.567											
10	.977	.973	.969	.948	.913	.869	.817	.754	.650	.544										
11	.979	.975	.971	.967	.942	.900	.850	.792	.733	.627	.521									
12	.981	.977	.973	.969	.965	.935	.888	.829	.769	.715	.602	.500								
13	.983	.979	.975	.971	.967	.963	.929	.873	.810	.748	.694	.577	.481							
14	.985	.981	.977	.973	.969	.965	.960	.921	.863	.792	.727	.667	.556	.460						
15	.988	.983	.979	.975	.971	.967	.963	.956	.917	.850	.775	.700	.644	.535	.440					
16	.990	.985	.981	.977	.973	.969	.965	.958	.954	.910	.838	.754	.675	.621	.515	.421				
17	.992	.988	.983	.979	.975	.971	.967	.960	.956	.950	.904	.821	.733	.650	.598	.498	.402			
18	.994	.990	.985	.981	.977	.973	.969	.963	.958	.952	.946	.892	.804	.710	.627	.579	.481	.383		
19	.996	.992	.988	.983	.979	.975	.971	.965	.960	.954	.948	.935	.881	.781	.692	.608	.560	.463	.367	
20	.998	.994	.990	.985	.981	.977	.973	.967	.963	.956	.950	.942	.927	.863	.763	.677	.588	.540	.448	.350
21	1.00	.996	.992	.988	.983	.979	.975	.969	.965	.958	.952	.946	.935	.910	.848	.748	.658	.565	.525	.433
22	1.00	1.00	.994	.990	.985	.981	.977	.971	.967	.963	.954	.948	.942	.923	.896	.838	.727	.640	.548	.510
23	1.00	1.00	1.00	.992	.988	.983	.979	.973	.969	.965	.960	.950	.944	.933	.910	.883	.821	.706	.627	.531
24	1.00	1.00	1.00	1.00	.990	.985	.981	.975	.971	.967	.963	.956	.946	.938	.925	.898	.865	.804	.692	.613
25	1.00	1.00	1.00	1.00	1.00	.988	.983	.977	.973	.969	.965	.958	.952	.942	.929	.917	.879	.846	.794	.673
26	1.00	1.00	1.00	1.00	1.00	1.00	.985	.979	.975	.971	.967	.963	.954	.948	.935	.921	.902	.863	.831	.779
27	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.981	.977	.973	.969	.965	.960	.950	.944	.929	.908	.890	.848	.815
28	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.998	.979	.975	.971	.967	.963	.956	.946	.940	.921	.898	.877	.831
29	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.996	.977	.973	.969	.965	.958	.952	.942	.933	.913	.888	.860
30	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.994	.975	.971	.967	.963	.954	.948	.935	.927	.904	.873
31	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.992	.973	.969	.965	.958	.950	.942	.929	.921	.894
32	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.990	.971	.967	.960	.954	.946	.935	.923	.915
33	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.988	.969	.963	.956	.950	.940	.929
34	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.985	.967	.958	.952	.946	.933
35	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.983	.965	.954	.948	.942
36	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.981	.963	.950	.944
37	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.979	.958	.946
38	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.977	.954
39	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.975
40	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.971

TOTAL OBSERVATIONS 480

TABLE 11. S.D. P(W ≥ W\*) I LAUNCH OPPORTUNITIES IN J PERIODS (W\* = 25 M/SEC).  
BASED ON MAXIMUM WIND SPEEDS IN THE 10-15 KM LAYER OVER CAPE KENNEDY, FLORIDA.

PERIOD OF RECORD JANUARY 1956 - DECEMBER 1963.

CAPE KENNEDY, FLORIDA NOVEMBER

SPEEDS GREATER THAN OR EQUAL TO 030 MPS

PC ( I CONSECUTIVE SUCCESSES IN J PERIODS )

J	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
1	.704																			
2	.790	.625																		
3	.842	.698	.558																	
4	.879	.769	.627	.494																
5	.913	.815	.694	.556	.438															
6	.935	.850	.758	.617	.490	.392														
7	.946	.883	.804	.675	.542	.435	.356													
8	.956	.910	.842	.733	.594	.479	.392	.327												
9	.965	.931	.875	.777	.646	.523	.427	.360	.300											
10	.971	.950	.904	.810	.698	.567	.463	.394	.329	.279										
11	.975	.965	.925	.842	.733	.610	.498	.427	.358	.308	.256									
12	.977	.971	.944	.869	.763	.652	.533	.460	.388	.338	.283	.235								
13	.979	.975	.958	.888	.792	.679	.567	.494	.417	.367	.310	.260	.213							
14	.981	.977	.965	.906	.817	.704	.598	.525	.446	.396	.338	.285	.233	.194						
15	.983	.979	.971	.921	.838	.729	.625	.554	.473	.425	.365	.310	.254	.213	.177					
16	.985	.981	.975	.931	.856	.756	.650	.583	.498	.452	.392	.335	.275	.231	.196	.160				
17	.988	.983	.979	.942	.871	.777	.675	.608	.523	.477	.417	.360	.296	.250	.215	.177	.146			
18	.990	.985	.981	.950	.881	.798	.700	.631	.548	.502	.440	.383	.317	.269	.233	.194	.163	.131		
19	.992	.988	.983	.958	.892	.815	.723	.654	.571	.527	.463	.404	.335	.288	.252	.210	.179	.144	.121	
20	.994	.990	.985	.965	.900	.829	.746	.677	.592	.552	.485	.425	.352	.304	.271	.227	.196	.156	.133	.110
21	.996	.992	.988	.971	.908	.842	.767	.698	.613	.573	.508	.446	.369	.319	.288	.244	.213	.169	.146	.123
22	.998	.994	.990	.977	.917	.852	.785	.719	.633	.594	.531	.467	.385	.333	.302	.258	.229	.181	.158	.135
23	1.00	.996	.992	.983	.925	.863	.802	.738	.652	.615	.552	.488	.402	.348	.317	.271	.244	.194	.171	.148
24	1.00	.998	.994	.988	.933	.873	.819	.754	.671	.635	.573	.508	.419	.363	.331	.283	.256	.206	.183	.160
25	1.00	1.00	.996	.992	.942	.883	.835	.771	.685	.654	.594	.529	.435	.377	.346	.296	.269	.217	.196	.173
26	1.00	1.00	.998	.994	.950	.894	.848	.788	.700	.671	.615	.550	.452	.392	.360	.308	.281	.227	.206	.185
27	1.00	1.00	1.00	.996	.958	.902	.860	.804	.715	.685	.633	.571	.469	.406	.375	.321	.294	.238	.217	.196
28	1.00	1.00	1.00	.998	.965	.910	.873	.819	.729	.700	.652	.590	.485	.421	.390	.333	.306	.248	.227	.206
29	1.00	1.00	1.00	1.00	.971	.919	.881	.833	.744	.715	.669	.608	.504	.435	.404	.346	.319	.260	.238	.217
30	1.00	1.00	1.00	1.00	.975	.927	.890	.846	.756	.729	.685	.627	.521	.452	.419	.358	.331	.273	.250	.227
31	1.00	1.00	1.00	1.00	.979	.935	.898	.856	.767	.744	.702	.644	.538	.469	.435	.371	.344	.285	.263	.240
32	1.00	1.00	1.00	1.00	.981	.942	.906	.867	.777	.754	.719	.660	.554	.483	.452	.383	.356	.298	.275	.252
33	1.00	1.00	1.00	1.00	.983	.948	.915	.877	.785	.765	.733	.677	.571	.498	.469	.396	.369	.310	.288	.265
34	1.00	1.00	1.00	1.00	.985	.954	.921	.888	.794	.775	.746	.692	.590	.513	.483	.408	.381	.323	.300	.277
35	1.00	1.00	1.00	1.00	.988	.960	.927	.898	.802	.783	.758	.706	.604	.529	.498	.421	.394	.335	.313	.290
36	1.00	1.00	1.00	1.00	.990	.967	.933	.906	.810	.792	.771	.719	.619	.544	.515	.433	.406	.348	.325	.302
37	1.00	1.00	1.00	1.00	.992	.973	.940	.915	.819	.800	.781	.731	.633	.558	.529	.448	.419	.360	.338	.315
38	1.00	1.00	1.00	1.00	.994	.979	.946	.923	.825	.808	.790	.744	.646	.573	.544	.463	.433	.373	.350	.327
39	1.00	1.00	1.00	1.00	.996	.985	.952	.931	.831	.817	.798	.754	.658	.588	.558	.477	.448	.388	.363	.340
40	1.00	1.00	1.00	1.00	.998	.992	.958	.940	.838	.823	.806	.763	.671	.600	.573	.492	.463	.402	.377	.352

TOTAL OBSERVATIONS 490

TABLE 11. 4. P(W ≥ W\*) I CONSECUTIVE LAUNCH OPPORTUNITIES IN J PERIODS (W\* = 30 M/SEC).  
 BASED ON MAXIMUM WIND SPEEDS IN THE 10-15 KM LAYER OVER CAPE KENNEDY, FLORIDA.  
 PERIOD OF RECORD JANUARY 1956 - DECEMBER 1963.

CAPF KENNEDY, FLORIDA NOVEMBER  
 SPEEDS GREATER THAN OR EQUAL TO 030 MPS

P ( I SUCCESSES IN J PERIODS )

	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
1	.704																			
2	.790	.625																		
3	.842	.729	.558																	
4	.879	.790	.681	.494																
5	.913	.829	.752	.529	.438															
6	.935	.873	.796	.708	.575	.392														
7	.946	.915	.842	.754	.658	.531	.356													
8	.956	.931	.894	.802	.708	.613	.496	.327												
9	.965	.948	.915	.863	.760	.665	.575	.465	.300											
10	.971	.958	.938	.988	.829	.715	.633	.542	.431	.279										
11	.975	.967	.950	.919	.860	.790	.679	.608	.504	.406	.256									
12	.977	.973	.960	.933	.904	.825	.754	.656	.575	.475	.379	.235								
13	.979	.975	.971	.946	.921	.879	.794	.731	.627	.544	.446	.354	.213							
14	.981	.977	.973	.963	.933	.902	.856	.773	.702	.598	.513	.421	.323	.194						
15	.983	.979	.975	.967	.956	.915	.888	.838	.750	.673	.569	.485	.390	.294	.177					
16	.985	.981	.977	.971	.960	.944	.902	.871	.819	.725	.644	.544	.452	.352	.275	.160				
17	.988	.983	.979	.975	.965	.952	.931	.888	.856	.794	.700	.619	.515	.404	.333	.254	.146			
18	.990	.985	.981	.977	.971	.956	.948	.915	.875	.833	.771	.679	.592	.467	.377	.317	.233	.131		
19	.992	.988	.983	.979	.975	.963	.952	.938	.900	.857	.817	.750	.656	.538	.446	.354	.300	.208	.121	
20	.994	.990	.985	.981	.977	.969	.958	.944	.927	.873	.840	.800	.727	.604	.513	.425	.335	.277	.190	.110
21	.996	.992	.988	.983	.979	.971	.967	.952	.935	.898	.863	.827	.781	.671	.581	.490	.404	.315	.258	.171
22	.998	.994	.990	.985	.981	.973	.969	.963	.946	.913	.883	.852	.813	.727	.648	.563	.465	.385	.294	.240
23	1.00	.996	.992	.988	.983	.975	.971	.965	.958	.927	.898	.871	.840	.765	.702	.629	.540	.444	.365	.275
24	1.00	1.00	.994	.990	.985	.977	.973	.967	.960	.942	.915	.888	.858	.796	.744	.679	.606	.523	.421	.348
25	1.00	1.00	1.00	.992	.988	.979	.975	.969	.963	.946	.929	.906	.877	.819	.775	.727	.650	.590	.500	.404
26	1.00	1.00	1.00	1.00	.990	.981	.977	.971	.965	.950	.933	.921	.898	.844	.798	.758	.702	.629	.565	.485
27	1.00	1.00	1.00	1.00	1.00	.983	.979	.973	.967	.954	.938	.925	.913	.871	.827	.781	.729	.685	.604	.548
28	1.00	1.00	1.00	1.00	1.00	.996	.981	.975	.969	.958	.942	.929	.917	.892	.854	.815	.752	.713	.660	.588
29	1.00	1.00	1.00	1.00	1.00	.998	.994	.977	.971	.963	.946	.933	.921	.900	.875	.842	.788	.738	.690	.644
30	1.00	1.00	1.00	1.00	1.00	1.00	.996	.990	.973	.965	.952	.938	.925	.906	.885	.863	.813	.777	.715	.673
31	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.992	.985	.967	.956	.944	.929	.913	.894	.873	.838	.796	.758	.700
32	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.998	.988	.979	.960	.948	.935	.919	.900	.883	.850	.819	.777	.746
33	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.998	.996	.981	.973	.954	.940	.925	.908	.890	.865	.831	.802	.763
34	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.998	.996	.992	.975	.967	.948	.929	.915	.900	.873	.848	.817	.785
35	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.998	.996	.992	.988	.969	.960	.940	.919	.906	.888	.856	.838	.798
36	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.998	.996	.994	.988	.983	.963	.952	.931	.910	.894	.875	.846	.823
37	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.998	.996	.994	.992	.983	.979	.954	.944	.925	.898	.885	.865	.831
38	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.998	.996	.994	.992	.990	.979	.973	.946	.938	.915	.890	.877	.850
39	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.996	.994	.992	.990	.988	.975	.965	.940	.927	.908	.881	.869
40	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.998	.994	.992	.990	.988	.985	.969	.958	.929	.921	.902	.873

TOTAL OBSERVATIONS 480

TABLE 11. 4. b. P(W ≥ W\*) I LAUNCH OPPORTUNITIES IN J PERIODS (W\* = 30 M/SEC).  
 BASED ON MAXIMUM WIND SPEEDS IN THE 10-15 KM LAYER OVER CAPE KENNEDY, FLORIDA.  
 PERIOD OF RECORD JANUARY 1956 - DECEMBER 1963.

CAPE KENNEDY, FLORIDA NOVEMBER  
SPEEDS GREATER THAN OR EQUAL TO 035 MPS

PC ( I CONSECUTIVE SUCCESSES IN J PERIODS )

	I																			
J	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
1	.540																			
2	.648	.435																		
3	.731	.517	.356																	
4	.796	.596	.421	.294																
5	.838	.665	.483	.340	.252															
6	.873	.721	.546	.383	.290	.221														
7	.898	.767	.600	.429	.327	.254	.194													
8	.915	.804	.648	.473	.367	.288	.219	.171												
9	.931	.838	.685	.510	.404	.322	.244	.190	.154											
10	.944	.858	.721	.542	.442	.355	.269	.208	.171	.142										
11	.954	.879	.750	.573	.471	.390	.294	.227	.188	.158	.127									
12	.967	.900	.773	.602	.498	.421	.319	.246	.204	.175	.142	.115								
13	.975	.917	.794	.627	.525	.450	.342	.265	.221	.192	.156	.129	.100							
14	.979	.933	.815	.646	.550	.475	.367	.281	.238	.208	.171	.144	.113	.088						
15	.981	.948	.831	.665	.571	.500	.388	.300	.254	.225	.185	.158	.125	.100	.075					
16	.983	.956	.848	.683	.585	.521	.408	.321	.273	.242	.200	.173	.138	.113	.083	.067				
17	.985	.963	.863	.700	.600	.542	.427	.340	.292	.260	.215	.188	.150	.125	.092	.075	.058			
18	.988	.969	.873	.717	.615	.558	.444	.356	.310	.279	.231	.202	.163	.138	.100	.083	.067	.050		
19	.990	.973	.883	.731	.629	.575	.460	.373	.327	.298	.248	.219	.175	.150	.108	.092	.075	.058	.042	
20	.992	.977	.894	.744	.644	.592	.475	.390	.344	.315	.265	.235	.190	.163	.117	.100	.083	.067	.050	.033
21	.994	.981	.904	.756	.656	.608	.490	.406	.360	.331	.279	.252	.204	.177	.125	.108	.092	.075	.058	.042
22	.996	.985	.915	.769	.667	.625	.504	.423	.377	.348	.296	.267	.219	.192	.135	.117	.100	.083	.067	.050
23	.998	.990	.925	.779	.677	.638	.519	.440	.394	.365	.310	.283	.231	.206	.146	.127	.108	.092	.075	.058
24	1.00	.992	.935	.790	.688	.650	.531	.456	.410	.381	.325	.300	.246	.219	.156	.138	.119	.100	.083	.067
25	1.00	.994	.946	.800	.698	.663	.544	.471	.427	.398	.340	.315	.260	.233	.165	.148	.129	.110	.092	.075
26	1.00	.996	.956	.810	.708	.675	.556	.485	.442	.415	.354	.329	.275	.248	.175	.156	.140	.121	.102	.083
27	1.00	.996	.965	.821	.719	.685	.569	.500	.456	.429	.369	.344	.290	.263	.188	.167	.148	.131	.113	.094
28	1.00	.996	.973	.831	.729	.696	.579	.515	.471	.444	.383	.358	.304	.277	.200	.179	.156	.140	.123	.104
29	1.00	.996	.977	.840	.740	.706	.590	.529	.488	.458	.398	.373	.319	.292	.213	.192	.167	.148	.131	.115
30	1.00	.996	.979	.848	.750	.717	.600	.544	.504	.473	.413	.388	.333	.306	.225	.204	.177	.158	.140	.123
31	1.00	.996	.981	.856	.758	.727	.610	.558	.519	.488	.427	.402	.348	.321	.238	.217	.188	.169	.150	.131
32	1.00	.996	.983	.863	.767	.738	.621	.573	.533	.502	.442	.417	.363	.335	.250	.229	.198	.179	.160	.142
33	1.00	.996	.985	.869	.775	.746	.631	.585	.548	.517	.456	.431	.377	.350	.263	.242	.208	.190	.171	.152
34	1.00	.996	.988	.875	.781	.754	.642	.598	.563	.531	.471	.446	.392	.365	.275	.254	.219	.200	.181	.163
35	1.00	.996	.990	.881	.788	.763	.650	.610	.575	.546	.485	.460	.406	.379	.288	.267	.229	.210	.192	.173
36	1.00	.996	.992	.885	.794	.769	.658	.623	.588	.560	.500	.475	.421	.394	.300	.279	.240	.221	.202	.183
37	1.00	.996	.994	.890	.800	.775	.667	.635	.600	.573	.515	.490	.435	.408	.315	.292	.250	.231	.213	.194
38	1.00	.996	.994	.894	.804	.781	.675	.644	.613	.585	.529	.504	.450	.423	.329	.306	.260	.242	.223	.204
39	1.00	.996	.994	.898	.813	.788	.683	.656	.625	.598	.542	.519	.465	.438	.344	.321	.273	.252	.233	.215
40	1.00	.998	.994	.902	.819	.794	.692	.667	.635	.610	.554	.533	.479	.452	.358	.335	.285	.265	.244	.225

TOTAL OBSERVATIONS 480

TABLE 11. 5. a. P(N ≥ W) I CONSECUTIVE LAUNCH OPPORTUNITIES IN J PERIODS (W = 35 M/SEC).  
BASED ON MAXIMUM WIND SPEEDS IN THE 10-15 KM LAYER OVER CAPE KENNEDY, FLORIDA.  
PERIOD OF RECORD JANUARY 1956 - DECEMBER 1963.

CAPE KENNEDY, FLORIDA NOVEMBER  
SPEEDS GREATER THAN OR EQUAL TO 035 MPS

P ( I SUCCESSES IN J PERIODS )

J	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
1	.540																			
2	.648	.435																		
3	.731	.540	.356																	
4	.796	.629	.452	.294																
5	.838	.708	.544	.373	.252															
6	.873	.758	.627	.458	.323	.221														
7	.898	.802	.683	.544	.398	.292	.194													
8	.915	.842	.731	.610	.473	.363	.258	.171												
9	.931	.865	.777	.665	.550	.423	.321	.235	.154											
10	.944	.892	.802	.719	.604	.502	.369	.292	.217	.142										
11	.954	.915	.833	.742	.671	.550	.450	.325	.271	.204	.127									
12	.967	.931	.863	.771	.698	.621	.502	.392	.298	.258	.190	.115								
13	.975	.950	.888	.796	.731	.650	.577	.438	.356	.283	.242	.179	.100							
14	.979	.965	.917	.819	.756	.688	.608	.510	.398	.335	.263	.231	.165	.088						
15	.981	.973	.940	.854	.779	.713	.648	.550	.463	.375	.308	.250	.219	.150	.075					
16	.983	.977	.954	.885	.817	.738	.671	.596	.500	.433	.344	.294	.235	.206	.131	.067				
17	.985	.979	.965	.908	.850	.777	.694	.623	.542	.475	.396	.327	.277	.223	.188	.117	.058			
18	.988	.981	.971	.929	.871	.817	.729	.650	.567	.519	.435	.373	.310	.265	.208	.167	.106	.050		
19	.990	.983	.975	.944	.896	.835	.769	.688	.590	.548	.479	.413	.350	.298	.252	.188	.150	.096	.042	
20	.992	.985	.979	.954	.913	.860	.792	.723	.627	.571	.510	.458	.388	.335	.285	.233	.169	.135	.085	.033
21	.994	.988	.981	.965	.927	.881	.813	.746	.665	.604	.531	.492	.435	.369	.323	.267	.217	.154	.121	.075
22	.996	.990	.983	.969	.946	.902	.833	.765	.683	.644	.560	.513	.471	.415	.356	.304	.248	.206	.138	.106
23	.998	.992	.985	.973	.950	.931	.856	.783	.700	.660	.600	.538	.498	.448	.400	.340	.285	.238	.192	.123
24	1.00	.994	.988	.977	.954	.940	.894	.804	.717	.677	.619	.571	.523	.477	.433	.383	.319	.277	.225	.177
25	1.00	.998	.990	.979	.960	.948	.908	.844	.735	.692	.640	.588	.552	.504	.463	.419	.358	.310	.269	.208
26	1.00	.998	.996	.981	.963	.956	.927	.856	.777	.706	.656	.606	.569	.531	.490	.450	.394	.346	.302	.256
27	1.00	.998	.996	.990	.965	.958	.942	.879	.792	.746	.673	.621	.588	.548	.515	.477	.429	.377	.338	.292
28	1.00	.998	.996	.992	.973	.960	.948	.896	.821	.758	.715	.635	.602	.567	.531	.502	.456	.413	.371	.329
29	1.00	.998	.996	.994	.977	.967	.952	.908	.842	.785	.729	.675	.617	.581	.550	.519	.481	.438	.408	.365
30	1.00	.998	.996	.994	.983	.971	.956	.917	.867	.800	.758	.690	.654	.594	.567	.538	.500	.460	.431	.404
31	1.00	.998	.996	.994	.985	.979	.960	.925	.881	.823	.771	.719	.671	.627	.581	.554	.521	.475	.452	.427
32	1.00	.998	.996	.994	.985	.983	.971	.933	.892	.842	.790	.731	.700	.644	.613	.571	.538	.492	.467	.448
33	1.00	.998	.996	.994	.985	.983	.977	.950	.900	.856	.810	.746	.715	.671	.631	.600	.556	.508	.481	.463
34	1.00	.998	.996	.994	.985	.983	.977	.960	.921	.867	.827	.769	.727	.683	.658	.621	.583	.531	.496	.475
35	1.00	.998	.996	.994	.985	.983	.977	.967	.933	.890	.840	.788	.746	.698	.669	.648	.604	.563	.517	.488
36	1.00	.998	.996	.994	.985	.983	.977	.973	.944	.902	.863	.804	.760	.717	.683	.658	.629	.590	.548	.504
37	1.00	.998	.996	.994	.985	.983	.977	.973	.960	.915	.877	.825	.775	.731	.702	.673	.640	.615	.579	.531
38	1.00	.998	.996	.994	.985	.983	.977	.973	.965	.940	.890	.840	.792	.748	.717	.692	.654	.625	.604	.560
39	1.00	1.00	.996	.994	.985	.983	.977	.973	.967	.946	.921	.892	.804	.765	.733	.706	.673	.640	.613	.585
40	1.00	1.00	1.00	.994	.985	.983	.977	.973	.969	.950	.929	.888	.815	.781	.746	.721	.688	.660	.623	.598

TOTAL OBSERVATIONS 480

TABLE 11. S. b. P(W ≥ W<sub>0</sub>) I LAUNCH OPPORTUNITIES IN J PERIODS (W<sub>0</sub> = 35 M/SEC).  
BASED ON MAXIMUM WIND SPEEDS IN THE 10-15 KM LAYER OVER CAPE KENNEDY, FLORIDA.  
PERIOD OF RECORD JANUARY 1956 - DECEMBER 1963.



CAPE KENNEDY, FLORIDA NOVEMBER

SPEEDS GREATER THAN OR EQUAL TO 040 MPS

PC ( I CONSECUTIVE SUCCESSES IN J PERIODS )

J	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
1	.373																			
2	.477	.275																		
3	.558	.344	.213																	
4	.633	.410	.263	.169																
5	.694	.463	.313	.210	.135															
6	.735	.508	.363	.252	.167	.113														
7	.771	.550	.402	.292	.198	.135	.094													
8	.800	.585	.435	.331	.227	.158	.115	.077												
9	.829	.623	.463	.365	.256	.181	.135	.096	.063											
10	.856	.654	.492	.392	.283	.204	.156	.115	.079	.050										
11	.881	.685	.521	.421	.304	.227	.177	.133	.096	.063	.040									
12	.904	.715	.548	.450	.323	.248	.198	.152	.113	.075	.050	.031								
13	.925	.740	.573	.479	.342	.269	.217	.171	.129	.088	.060	.040	.023							
14	.938	.763	.598	.502	.360	.288	.238	.188	.146	.100	.071	.048	.025	.021						
15	.948	.785	.621	.523	.377	.306	.256	.206	.163	.113	.081	.056	.027	.023	.019					
16	.956	.804	.644	.542	.394	.323	.275	.225	.181	.125	.092	.065	.029	.025	.021	.017				
17	.965	.821	.667	.560	.408	.340	.292	.244	.200	.140	.102	.073	.031	.027	.023	.019	.015			
18	.973	.835	.688	.579	.425	.354	.308	.260	.219	.154	.115	.081	.033	.029	.025	.021	.017	.013		
19	.979	.848	.704	.598	.442	.371	.323	.277	.235	.169	.127	.092	.035	.031	.027	.023	.019	.015	.010	
20	.983	.860	.721	.615	.458	.388	.340	.292	.252	.181	.140	.102	.040	.033	.029	.025	.021	.017	.013	.008
21	.988	.873	.738	.629	.475	.404	.356	.308	.267	.194	.150	.113	.044	.038	.031	.027	.023	.019	.015	.010
22	.992	.883	.754	.644	.490	.421	.373	.325	.283	.204	.160	.121	.048	.042	.035	.029	.025	.021	.017	.013
23	.994	.894	.767	.658	.504	.435	.390	.342	.300	.217	.171	.129	.052	.046	.040	.033	.027	.023	.019	.015
24	.996	.904	.777	.673	.519	.450	.404	.358	.317	.229	.183	.138	.056	.050	.044	.038	.031	.025	.021	.017
25	.998	.913	.788	.683	.533	.465	.419	.373	.333	.242	.196	.148	.060	.054	.048	.042	.035	.029	.023	.019
26	.998	.921	.798	.694	.548	.479	.433	.388	.348	.254	.208	.158	.067	.058	.052	.046	.040	.033	.027	.021
27	.998	.927	.806	.704	.560	.494	.448	.402	.363	.267	.221	.169	.073	.065	.056	.050	.044	.038	.031	.025
28	.998	.933	.815	.715	.573	.508	.463	.417	.377	.279	.233	.179	.079	.071	.063	.054	.048	.042	.035	.029
29	.998	.940	.823	.723	.585	.521	.477	.431	.392	.292	.246	.190	.085	.077	.069	.060	.052	.046	.040	.033
30	.998	.944	.831	.731	.598	.533	.492	.446	.406	.304	.258	.200	.092	.083	.075	.067	.058	.050	.044	.038
31	.998	.948	.840	.740	.608	.546	.506	.460	.421	.317	.271	.210	.098	.090	.081	.073	.065	.056	.048	.042
32	.998	.952	.848	.748	.619	.558	.521	.475	.435	.329	.283	.221	.104	.096	.088	.079	.071	.063	.054	.046
33	.998	.956	.856	.756	.629	.569	.535	.490	.450	.342	.296	.231	.110	.102	.094	.085	.077	.069	.060	.052
34	.998	.960	.865	.765	.640	.579	.550	.504	.465	.354	.308	.242	.117	.108	.100	.092	.083	.075	.067	.058
35	.998	.965	.871	.773	.650	.590	.563	.519	.479	.367	.321	.252	.125	.115	.106	.098	.090	.081	.073	.065
36	.998	.969	.877	.781	.660	.600	.575	.533	.494	.379	.333	.263	.133	.123	.113	.104	.096	.088	.079	.071
37	.998	.973	.883	.788	.671	.610	.588	.548	.508	.392	.346	.273	.142	.131	.121	.110	.102	.094	.085	.077
38	.998	.977	.890	.794	.681	.621	.600	.563	.523	.404	.358	.283	.150	.140	.129	.119	.108	.100	.092	.083
39	1.00	.981	.896	.800	.692	.631	.610	.577	.538	.417	.371	.294	.158	.148	.138	.127	.117	.106	.098	.090
40	1.00	.985	.902	.806	.702	.642	.621	.592	.552	.429	.383	.304	.167	.156	.146	.135	.125	.115	.104	.096

TOTAL OBSERVATIONS 480

TABLE 11. G.S. P(W ≥ W\*) I CONSECUTIVE LAUNCH OPPORTUNITIES IN J PERIODS (W\* = 40 M/SEC).

BASED ON MAXIMUM WIND SPEEDS IN THE 10-15 KM LAYER OVER CAPE KENNEDY, FLORIDA.

PERIOD OF RECORD JANUARY 1956 - DECEMBER 1963.

CAPE KENNEDY, FLORIDA NOVEMBER  
SPEEDS GREATER THAN OR EQUAL TO 040 MPS

P ( I SUCCESSES IN J PERIODS )

I

J	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
1	.373																			
2	.477	.275																		
3	.558	.363	.213																	
4	.633	.423	.294	.169																
5	.694	.483	.348	.250	.135															
6	.735	.548	.398	.306	.210	.113														
7	.771	.600	.448	.354	.265	.179	.094													
8	.800	.648	.492	.398	.308	.233	.154	.077												
9	.829	.685	.533	.440	.350	.277	.210	.131	.063											
10	.856	.723	.565	.477	.392	.310	.258	.188	.110	.050										
11	.881	.754	.602	.506	.421	.352	.292	.235	.167	.090	.040									
12	.904	.783	.633	.544	.442	.383	.329	.275	.210	.142	.075	.031								
13	.925	.808	.663	.579	.469	.406	.358	.308	.254	.170	.120	.070	.023							
14	.938	.840	.690	.606	.504	.431	.377	.340	.285	.223	.165	.113	.042	.021						
15	.948	.860	.729	.629	.529	.469	.394	.358	.321	.252	.206	.150	.083	.035	.011					
16	.956	.879	.758	.667	.552	.488	.431	.375	.340	.290	.231	.194	.117	.071	.030	.017				
17	.965	.896	.781	.696	.590	.504	.458	.406	.356	.306	.273	.215	.158	.102	.056	.023	.015			
18	.973	.910	.802	.719	.623	.531	.481	.433	.381	.319	.294	.254	.181	.142	.088	.044	.019	.013		
19	.979	.927	.819	.740	.648	.560	.510	.458	.406	.338	.308	.277	.223	.163	.125	.065	.038	.015	.010	
20	.983	.940	.840	.754	.675	.579	.542	.485	.433	.350	.325	.292	.258	.196	.146	.096	.054	.029	.013	.008
21	.988	.952	.856	.773	.692	.604	.558	.521	.460	.385	.342	.308	.279	.233	.175	.113	.083	.040	.025	.010
22	.992	.965	.871	.788	.710	.621	.583	.540	.498	.413	.367	.323	.298	.258	.213	.138	.096	.065	.033	.019
23	.994	.977	.885	.802	.727	.638	.598	.567	.521	.444	.394	.346	.313	.281	.238	.179	.117	.073	.058	.025
24	.996	.981	.904	.817	.742	.654	.615	.579	.552	.471	.421	.373	.335	.296	.263	.210	.154	.090	.067	.050
25	.998	.983	.919	.835	.756	.667	.633	.594	.567	.504	.448	.394	.363	.319	.277	.240	.181	.125	.081	.056
26	.998	.988	.927	.856	.773	.679	.646	.615	.581	.510	.481	.423	.379	.346	.300	.256	.213	.152	.113	.067
27	.998	.990	.938	.867	.796	.696	.656	.627	.602	.535	.496	.458	.408	.363	.327	.281	.229	.190	.133	.092
28	.998	.992	.942	.883	.810	.715	.673	.638	.613	.560	.513	.475	.446	.390	.344	.310	.254	.210	.169	.110
29	.998	.994	.946	.894	.831	.727	.688	.656	.621	.573	.540	.492	.465	.431	.367	.329	.281	.238	.190	.142
30	.998	.996	.950	.904	.844	.748	.698	.669	.640	.583	.554	.517	.483	.452	.413	.350	.298	.265	.217	.160
31	.998	.996	.956	.915	.854	.763	.717	.677	.652	.604	.565	.531	.508	.473	.438	.398	.317	.279	.244	.190
32	.998	.996	.960	.927	.865	.773	.735	.690	.660	.619	.585	.542	.523	.498	.463	.425	.367	.292	.260	.219
33	.998	.996	.965	.938	.875	.785	.748	.706	.671	.620	.602	.560	.531	.515	.490	.454	.398	.333	.273	.238
34	.998	.996	.969	.944	.890	.796	.760	.717	.688	.642	.615	.577	.546	.523	.508	.483	.435	.365	.306	.252
35	.998	.996	.973	.950	.900	.810	.771	.729	.696	.660	.629	.588	.560	.538	.517	.504	.471	.405	.335	.283
36	.998	.996	.977	.956	.910	.821	.785	.738	.708	.671	.650	.600	.571	.550	.531	.513	.498	.444	.377	.317
37	.998	.996	.981	.963	.921	.831	.796	.750	.717	.685	.660	.623	.581	.560	.542	.527	.508	.477	.410	.365
38	.998	.996	.983	.971	.931	.842	.806	.758	.729	.696	.675	.635	.602	.571	.552	.535	.523	.492	.444	.400
39	1.00	.996	.983	.973	.946	.852	.819	.767	.738	.710	.685	.650	.613	.590	.563	.546	.531	.510	.460	.431
40	1.00	1.00	.983	.975	.950	.873	.829	.777	.746	.721	.700	.663	.623	.598	.581	.556	.542	.523	.481	.444

TOTAL OBSERVATIONS 480

TABLE 11. 6.b. P(W ≥ W\*) I LAUNCH OPPORTUNITIES IN J PERIODS (W\* = 40 M/SEC).  
BASED ON MAXIMUM WIND SPEEDS IN THE 10-15 KM LAYER OVER CAPE KENNEDY, FLORIDA.

PERIOD OF RECORD JANUARY 1956 - DECEMBER 1963.

CAPE KENNEDY, FLORIDA, WEMBER

SPEEDS GREATER THAN OR EQUAL TO 045 MPS

PC ( I CONSECUTIVE SUCCESSES IN J PERIODS )

J	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
1	.229																			
2	.300	.163																		
3	.367	.213	.119																	
4	.429	.265	.150	.092																
5	.481	.315	.183	.117	.069															
6	.529	.356	.219	.144	.088	.052														
7	.573	.390	.250	.171	.106	.065	.040													
8	.613	.433	.277	.196	.125	.077	.048	.031												
9	.648	.473	.304	.217	.144	.090	.056	.033	.029											
10	.681	.508	.333	.238	.160	.102	.065	.035	.031	.027										
11	.715	.542	.363	.260	.179	.115	.073	.038	.033	.029	.025									
12	.748	.573	.390	.283	.198	.129	.081	.040	.035	.031	.027	.023								
13	.775	.602	.415	.306	.217	.146	.090	.042	.038	.033	.029	.025	.021							
14	.800	.627	.438	.329	.235	.163	.100	.044	.040	.035	.031	.027	.023	.019						
15	.821	.652	.456	.352	.254	.179	.110	.048	.042	.038	.033	.029	.025	.021	.017					
16	.842	.679	.475	.369	.275	.196	.121	.052	.046	.040	.035	.031	.027	.023	.019	.015				
17	.860	.702	.496	.385	.296	.213	.131	.056	.050	.044	.038	.033	.029	.025	.021	.017	.013			
18	.879	.725	.515	.404	.315	.231	.142	.060	.054	.048	.042	.035	.031	.027	.023	.019	.015	.010		
19	.898	.746	.533	.421	.335	.250	.154	.065	.058	.052	.046	.040	.033	.029	.025	.021	.017	.013	.008	
20	.913	.767	.550	.438	.354	.269	.167	.071	.063	.056	.050	.044	.038	.031	.027	.023	.019	.015	.010	.006
21	.925	.788	.567	.452	.373	.285	.179	.077	.067	.060	.054	.048	.042	.035	.029	.025	.021	.017	.013	.008
22	.935	.806	.583	.467	.390	.302	.190	.083	.071	.065	.058	.052	.046	.040	.033	.027	.023	.019	.015	.010
23	.946	.823	.600	.481	.406	.317	.200	.090	.075	.069	.063	.056	.050	.044	.038	.031	.025	.021	.017	.013
24	.956	.838	.615	.496	.423	.331	.208	.096	.079	.073	.067	.060	.054	.048	.042	.035	.029	.023	.019	.015
25	.965	.852	.627	.510	.440	.346	.217	.102	.083	.077	.071	.065	.058	.052	.046	.040	.033	.027	.021	.017
26	.969	.865	.640	.523	.456	.360	.225	.108	.088	.081	.075	.069	.063	.056	.050	.044	.038	.031	.025	.019
27	.973	.875	.652	.538	.471	.375	.233	.115	.092	.085	.079	.073	.067	.060	.054	.048	.042	.035	.029	.023
28	.977	.885	.663	.552	.485	.390	.242	.121	.096	.090	.083	.077	.071	.065	.058	.052	.046	.040	.033	.027
29	.979	.896	.671	.567	.500	.406	.250	.127	.100	.094	.088	.081	.075	.069	.063	.056	.050	.044	.038	.031
30	.981	.906	.679	.577	.515	.421	.260	.133	.104	.098	.092	.085	.079	.073	.067	.060	.054	.048	.042	.035
31	.983	.915	.688	.588	.527	.435	.271	.142	.108	.102	.096	.090	.083	.077	.071	.065	.058	.052	.046	.040
32	.985	.923	.696	.598	.538	.448	.281	.150	.115	.106	.100	.094	.088	.081	.075	.069	.063	.056	.050	.044
33	.988	.931	.704	.608	.548	.460	.290	.158	.121	.113	.104	.098	.092	.085	.079	.073	.067	.060	.054	.048
34	.990	.940	.713	.619	.558	.471	.298	.167	.127	.119	.110	.102	.096	.090	.083	.077	.071	.065	.058	.052
35	.992	.946	.721	.629	.569	.481	.306	.175	.133	.125	.117	.108	.100	.094	.088	.081	.075	.069	.063	.056
36	.994	.952	.729	.640	.579	.492	.313	.183	.140	.131	.123	.115	.106	.098	.092	.085	.079	.073	.067	.060
37	.996	.958	.738	.650	.590	.502	.319	.192	.146	.138	.129	.121	.113	.104	.096	.090	.083	.077	.071	.065
38	.998	.965	.746	.660	.600	.513	.325	.200	.152	.144	.135	.127	.119	.110	.102	.094	.088	.081	.075	.069
39	.998	.971	.754	.671	.610	.523	.331	.208	.158	.150	.142	.133	.125	.117	.106	.100	.092	.085	.079	.073
40	.998	.977	.763	.681	.621	.533	.338	.217	.165	.154	.148	.140	.131	.123	.115	.106	.098	.090	.083	.077

TOTAL OBSERVATIONS 480

TABLE 11. 7.a.  $P(N \geq W)$  I CONSECUTIVE LAUNCH OPPORTUNITIES IN J PERIODS ( $W = 45$  M/SEC).  
 BASED ON MAXIMUM WIND SPEEDS IN THE 10-15 KM LAYER OVER CAPE KENNEDY, FLORIDA.  
 PERIOD OF RECORD JANUARY 1956 - DECEMBER 1963.

CAPF KENNEDY , FLORIDA NOVEMBER

SPEEDS GREATER THAN OR EQUAL TO 045 MPS

P ( I SUCCESSES IN J PERIODS )

		I																				
J		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	
1	.229																					
2	.300	.163																				
3	.367	.219	.119																			
4	.429	.273	.158	.092																		
5	.431	.323	.204	.127	.069																	
6	.529	.369	.242	.171	.098	.052																
7	.573	.413	.281	.198	.135	.077	.040															
8	.613	.458	.317	.229	.156	.113	.058	.031														
9	.648	.500	.363	.252	.183	.133	.088	.042	.029													
10	.681	.538	.402	.290	.206	.156	.106	.063	.035	.027												
11	.715	.569	.435	.325	.244	.177	.125	.079	.052	.029	.025											
12	.748	.600	.460	.356	.279	.215	.144	.092	.071	.038	.027	.027										
13	.775	.633	.485	.379	.310	.250	.181	.104	.083	.052	.031	.025	.021									
14	.800	.665	.510	.402	.338	.277	.219	.133	.094	.063	.044	.027	.023	.019								
15	.821	.700	.533	.425	.363	.304	.244	.165	.121	.071	.052	.038	.025	.021	.017							
16	.842	.727	.563	.446	.385	.329	.273	.185	.148	.094	.058	.046	.033	.023	.019	.015						
17	.860	.752	.585	.475	.406	.350	.296	.215	.167	.115	.077	.052	.042	.029	.021	.017	.013					
18	.879	.775	.606	.498	.435	.371	.315	.238	.194	.131	.094	.069	.048	.038	.025	.019	.015	.010				
19	.898	.796	.627	.519	.458	.398	.333	.256	.217	.156	.108	.083	.063	.044	.033	.021	.017	.013	.006			
20	.913	.819	.646	.540	.479	.419	.356	.273	.233	.179	.131	.098	.071	.060	.040	.027	.019	.015	.010	.006		
21	.925	.840	.669	.560	.498	.438	.373	.294	.248	.196	.154	.119	.079	.067	.058	.031	.023	.017	.013	.008		
22	.935	.858	.690	.588	.517	.454	.390	.310	.265	.213	.169	.144	.092	.073	.065	.050	.027	.019	.015	.010		
23	.946	.875	.704	.610	.546	.471	.404	.327	.279	.233	.183	.158	.115	.079	.071	.056	.046	.021	.017	.013		
24	.956	.888	.721	.629	.567	.500	.419	.344	.294	.250	.202	.173	.127	.096	.077	.063	.052	.038	.019	.015		
25	.965	.902	.733	.652	.585	.517	.448	.360	.308	.267	.217	.192	.140	.106	.092	.069	.058	.044	.033	.017		
26	.969	.917	.750	.669	.610	.533	.463	.392	.323	.283	.233	.206	.156	.115	.102	.081	.065	.050	.040	.029		
27	.973	.927	.767	.690	.625	.558	.479	.410	.350	.300	.248	.225	.169	.127	.110	.092	.075	.056	.046	.035		
28	.977	.938	.781	.704	.644	.571	.504	.433	.367	.327	.263	.240	.185	.135	.123	.100	.085	.065	.052	.042		
29	.979	.948	.798	.725	.660	.588	.515	.463	.392	.344	.285	.254	.198	.148	.131	.113	.094	.075	.058	.048		
30	.981	.954	.813	.746	.677	.602	.529	.475	.421	.373	.302	.273	.210	.158	.142	.121	.106	.083	.067	.054		
31	.983	.960	.825	.760	.698	.619	.542	.490	.435	.404	.333	.288	.225	.169	.152	.129	.115	.096	.075	.060		
32	.985	.967	.838	.773	.710	.640	.560	.502	.452	.419	.365	.319	.242	.179	.163	.138	.123	.104	.088	.067		
33	.988	.971	.852	.785	.721	.650	.585	.521	.469	.433	.379	.350	.273	.194	.173	.146	.131	.113	.096	.077		
34	.990	.975	.863	.800	.733	.658	.604	.544	.490	.448	.394	.365	.306	.223	.188	.154	.142	.121	.104	.083		
35	.992	.979	.873	.813	.746	.669	.619	.565	.515	.465	.408	.379	.321	.260	.213	.167	.150	.133	.113	.090		
36	.994	.983	.881	.823	.763	.677	.631	.588	.535	.485	.425	.394	.335	.277	.252	.188	.160	.144	.125	.096		
37	.996	.988	.890	.831	.773	.694	.642	.604	.563	.502	.446	.410	.350	.292	.271	.227	.177	.156	.135	.106		
38	.998	.992	.898	.840	.781	.706	.658	.619	.579	.529	.460	.433	.367	.308	.285	.248	.215	.171	.148	.115		
39	.998	.996	.908	.848	.790	.717	.673	.638	.594	.546	.468	.448	.392	.327	.300	.265	.233	.208	.158	.127		
40	.998	.996	.919	.860	.798	.727	.685	.652	.613	.563	.504	.475	.408	.354	.317	.281	.248	.227	.192	.135		

TOTAL OBSERVATIONS 480

TABLE 11. 7.b. P(W ≥ W<sub>0</sub>) I LAUNCH OPPORTUNITIES IN J PERIODS (W<sub>0</sub> = 45 M/SEC).  
 BASED ON MAXIMUM WIND SPEEDS IN THE 10-15 KM LAYER OVER CAPE KENNEDY, FLORIDA.  
 PERIOD OF RECORD JANUARY 1956 - DECEMBER 1963.

CAPE KENNEDY , FLORIDA NOVEMBER  
 SPEEDS GREATER THAN OR EQUAL TO 050 MPS

PC ( I CONSECUTIVE SUCCESSES IN J PERIODS )

J	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
1	.127																			
2	.179	.081																		
3	.223	.115	.052																	
4	.267	.148	.065	.044																
5	.310	.175	.077	.056	.033															
6	.350	.202	.090	.069	.046	.021														
7	.385	.227	.100	.061	.058	.029	.013													
8	.421	.250	.108	.094	.071	.038	.017	.008												
9	.456	.273	.119	.102	.083	.046	.021	.010	.006											
10	.484	.296	.129	.113	.094	.054	.025	.013	.008	.004										
11	.519	.317	.142	.123	.104	.063	.029	.015	.010	.006	.002									
12	.548	.338	.154	.135	.115	.071	.033	.017	.013	.008	.004	.000								
13	.577	.358	.167	.148	.127	.077	.038	.019	.015	.010	.006	.000	.000							
14	.602	.379	.181	.160	.140	.085	.042	.021	.017	.013	.008	.000	.000	.000						
15	.627	.400	.196	.175	.152	.094	.048	.023	.019	.015	.010	.000	.000	.000	.000					
16	.648	.421	.210	.190	.165	.102	.054	.027	.021	.017	.013	.000	.000	.000	.000	.000				
17	.669	.442	.225	.204	.179	.110	.060	.031	.025	.019	.015	.000	.000	.000	.000	.000	.000			
18	.690	.460	.240	.219	.192	.121	.067	.035	.029	.023	.017	.000	.000	.000	.000	.000	.000	.000		
19	.708	.479	.254	.233	.204	.131	.075	.040	.033	.027	.021	.000	.000	.000	.000	.000	.000	.000	.000	
20	.727	.496	.269	.248	.215	.142	.083	.046	.038	.031	.025	.002	.000	.000	.000	.000	.000	.000	.000	.000
21	.746	.513	.283	.263	.225	.150	.092	.052	.042	.035	.029	.004	.002	.000	.000	.000	.000	.000	.000	.000
22	.765	.529	.298	.277	.235	.158	.098	.058	.046	.040	.033	.006	.004	.002	.000	.000	.000	.000	.000	.000
23	.775	.546	.313	.292	.246	.167	.104	.065	.050	.044	.038	.008	.006	.004	.000	.000	.000	.000	.000	.000
24	.783	.563	.327	.306	.256	.175	.110	.071	.054	.048	.042	.010	.008	.006	.000	.000	.000	.000	.000	.000
25	.792	.581	.342	.321	.267	.183	.117	.077	.058	.052	.046	.013	.010	.008	.000	.000	.000	.000	.000	.000
26	.800	.598	.358	.335	.277	.192	.123	.083	.063	.056	.050	.015	.013	.010	.000	.000	.000	.000	.000	.000
27	.808	.615	.375	.352	.288	.200	.129	.090	.067	.060	.054	.017	.015	.013	.000	.000	.000	.000	.000	.000
28	.817	.629	.392	.369	.300	.208	.135	.096	.071	.065	.058	.019	.017	.015	.000	.000	.000	.000	.000	.000
29	.825	.644	.406	.385	.313	.219	.142	.102	.075	.069	.063	.021	.019	.017	.000	.000	.000	.000	.000	.000
30	.833	.656	.421	.400	.325	.229	.150	.108	.079	.073	.067	.023	.021	.019	.000	.000	.000	.000	.000	.000
31	.842	.667	.433	.415	.335	.240	.158	.115	.083	.077	.071	.025	.023	.021	.000	.000	.000	.000	.000	.000
32	.850	.677	.446	.429	.346	.248	.167	.121	.088	.081	.075	.027	.025	.023	.000	.000	.000	.000	.000	.000
33	.858	.688	.456	.442	.356	.256	.175	.127	.092	.085	.079	.029	.027	.025	.000	.000	.000	.000	.000	.000
34	.865	.696	.467	.454	.367	.265	.183	.133	.096	.090	.083	.031	.029	.027	.000	.000	.000	.000	.000	.000
35	.871	.704	.477	.465	.375	.273	.192	.140	.100	.094	.088	.033	.031	.029	.000	.000	.000	.000	.000	.000
36	.877	.713	.488	.475	.385	.281	.200	.146	.104	.098	.092	.035	.033	.031	.000	.000	.000	.000	.000	.000
37	.883	.721	.498	.485	.394	.290	.208	.152	.108	.102	.096	.038	.035	.033	.000	.000	.000	.000	.000	.000
38	.890	.727	.508	.496	.402	.298	.217	.158	.113	.106	.100	.040	.038	.035	.000	.000	.000	.000	.000	.000
39	.896	.733	.519	.506	.410	.306	.223	.167	.117	.110	.104	.042	.040	.038	.000	.000	.000	.000	.000	.000
40	.902	.740	.529	.517	.419	.315	.229	.175	.123	.115	.108	.044	.042	.040	.000	.000	.000	.000	.000	.000

TOTAL OBSERVATIONS 480

TABLE 11.  $P(N \geq n)$  I CONSECUTIVE LAUNCH OPPORTUNITIES IN J PERIODS ( $N_0 = 50$  M/SEC).  
 BASED ON MAXIMUM WIND SPEEDS IN THE 10-15 KM LAYER OVER CAPE KENNEDY, FLORIDA.  
 PERIOD OF RECORD JANUARY 1956 - DECEMBER 1963.

CAPE KENNEDY, FLORIDA NOVEMBER  
 SPEEDS GREATER THAN OR EQUAL TO 050 MPS

P ( I SUCCESSES IN J PERIODS )

I

J	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
1	.127																			
2	.179	.081																		
3	.223	.123	.052																	
4	.267	.150	.079	.044																
5	.310	.177	.094	.069	.033															
6	.350	.206	.108	.081	.060	.021														
7	.385	.233	.129	.094	.071	.048	.013													
8	.421	.260	.148	.110	.081	.056	.038	.008												
9	.456	.285	.169	.127	.094	.065	.044	.029	.006											
10	.488	.313	.190	.146	.106	.075	.050	.033	.025	.004										
11	.519	.335	.213	.165	.121	.088	.058	.038	.027	.023	.002									
12	.548	.360	.238	.183	.133	.104	.067	.042	.029	.025	.021	.000								
13	.577	.385	.260	.206	.146	.119	.079	.048	.031	.027	.023	.017								
14	.602	.410	.283	.225	.165	.133	.092	.054	.038	.029	.025	.021	.011							
15	.627	.435	.304	.246	.179	.154	.104	.060	.044	.035	.027	.023	.019	.008	.000					
16	.648	.463	.325	.265	.198	.171	.121	.069	.050	.040	.033	.025	.021	.015	.006	.000				
17	.669	.483	.350	.283	.217	.188	.135	.079	.058	.044	.038	.031	.023	.017	.013	.004	.000			
18	.690	.504	.369	.308	.233	.206	.148	.090	.067	.050	.042	.035	.029	.019	.015	.010	.002	.000		
19	.708	.525	.388	.327	.256	.223	.163	.102	.075	.056	.048	.040	.033	.025	.017	.013	.008	.000	.000	
20	.727	.542	.406	.346	.273	.244	.175	.115	.083	.065	.054	.046	.038	.029	.023	.015	.010	.004	.000	.000
21	.746	.558	.425	.365	.290	.258	.192	.127	.092	.071	.063	.052	.044	.033	.027	.019	.013	.006	.002	.000
22	.765	.575	.442	.383	.304	.275	.202	.144	.100	.077	.069	.060	.050	.040	.031	.023	.015	.008	.004	.000
23	.775	.600	.458	.400	.319	.288	.217	.156	.113	.083	.075	.067	.058	.046	.035	.027	.017	.010	.006	.000
24	.783	.623	.481	.417	.333	.302	.227	.173	.121	.094	.081	.073	.065	.054	.040	.031	.019	.013	.008	.000
25	.792	.640	.506	.438	.348	.317	.240	.185	.133	.102	.092	.079	.071	.060	.048	.035	.021	.015	.010	.000
26	.800	.656	.527	.460	.367	.331	.252	.200	.144	.113	.098	.090	.077	.067	.054	.044	.023	.017	.013	.000
27	.808	.671	.546	.481	.388	.350	.265	.215	.154	.123	.104	.096	.088	.073	.060	.050	.029	.019	.015	.000
28	.817	.685	.563	.498	.408	.371	.281	.227	.167	.133	.110	.102	.094	.083	.067	.056	.035	.021	.017	.000
29	.825	.698	.579	.513	.423	.394	.304	.240	.177	.146	.117	.108	.100	.090	.077	.063	.042	.023	.019	.000
30	.833	.710	.592	.529	.435	.408	.331	.258	.188	.158	.123	.115	.106	.094	.085	.071	.048	.027	.021	.000
31	.842	.721	.606	.540	.454	.421	.348	.285	.200	.171	.129	.121	.113	.102	.094	.079	.054	.031	.025	.000
32	.850	.729	.621	.552	.465	.442	.363	.300	.229	.183	.135	.127	.119	.108	.100	.090	.060	.035	.029	.002
33	.858	.738	.629	.569	.477	.452	.388	.315	.244	.215	.142	.133	.125	.115	.106	.096	.071	.040	.033	.004
34	.865	.748	.638	.583	.490	.465	.402	.340	.256	.229	.169	.140	.131	.121	.113	.102	.077	.048	.038	.006
35	.871	.756	.648	.598	.502	.477	.415	.358	.281	.244	.181	.165	.138	.127	.119	.110	.083	.054	.044	.008
36	.877	.763	.660	.613	.515	.490	.427	.373	.302	.265	.194	.175	.163	.133	.125	.117	.094	.060	.050	.010
37	.883	.769	.669	.631	.527	.502	.440	.388	.317	.288	.210	.185	.173	.158	.131	.123	.102	.067	.058	.013
38	.890	.775	.677	.646	.544	.515	.452	.402	.331	.304	.231	.198	.183	.171	.152	.129	.110	.073	.063	.019
39	.896	.781	.685	.658	.558	.529	.469	.417	.346	.321	.246	.217	.194	.181	.165	.148	.119	.079	.067	.021
40	.902	.788	.694	.671	.573	.540	.485	.435	.360	.338	.260	.229	.210	.192	.173	.163	.138	.088	.071	.023

TOTAL OBSERVATIONS 480

TABLE 11. & b. P(W ≥ W<sub>0</sub>) I LAUNCH OPPORTUNITIES IN J PERIODS (W<sub>0</sub> = 50 M/SEC).  
 BASED ON MAXIMUM WIND SPEEDS IN THE 10-15 KM LAYER OVER CAPE KENNEDY, FLORIDA.  
 PERIOD OF RECORD JANUARY 1956 - DECEMBER 1963.

CAPE KENNEDY, FLORIDA NOVEMBER

SPEEDS GREATER THAN OR EQUAL TO 055 MPS

PC ( 1 CONSECUTIVE SUCCESSSES IN J PERIODS )

J	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
1	.077																			
2	.104	.054																		
3	.127	.071	.042																	
4	.150	.088	.054	.031																
5	.173	.102	.067	.042	.023															
6	.198	.115	.079	.052	.031	.015														
7	.221	.127	.090	.063	.040	.019	.010													
8	.246	.140	.100	.073	.048	.023	.013	.008												
9	.271	.152	.110	.081	.056	.027	.015	.010	.006											
10	.296	.165	.121	.092	.065	.021	.017	.013	.008	.004										
11	.321	.177	.131	.102	.073	.035	.019	.015	.010	.006	.002									
12	.346	.190	.142	.113	.081	.040	.021	.017	.013	.008	.004	.000								
13	.371	.206	.152	.123	.090	.042	.023	.019	.015	.010	.006	.000	.000							
14	.392	.223	.165	.133	.098	.044	.025	.021	.017	.013	.008	.000	.000	.000						
15	.413	.240	.177	.146	.106	.046	.027	.023	.019	.015	.010	.000	.000	.000	.000					
16	.431	.256	.190	.158	.115	.048	.029	.025	.021	.017	.013	.000	.000	.000	.000	.000				
17	.448	.273	.202	.171	.123	.050	.031	.027	.023	.019	.015	.000	.000	.000	.000	.000	.000			
18	.465	.288	.217	.183	.131	.052	.033	.029	.025	.021	.017	.000	.000	.000	.000	.000	.000	.000		
19	.481	.302	.229	.198	.140	.054	.035	.031	.027	.023	.019	.000	.000	.000	.000	.000	.000	.000	.000	
20	.498	.317	.242	.210	.150	.056	.038	.033	.029	.025	.021	.000	.000	.000	.000	.000	.000	.000	.000	.000
21	.515	.331	.254	.223	.158	.060	.040	.035	.031	.027	.023	.000	.000	.000	.000	.000	.000	.000	.000	.000
22	.531	.346	.267	.235	.167	.065	.044	.038	.033	.029	.025	.000	.000	.000	.000	.000	.000	.000	.000	.000
23	.548	.360	.279	.248	.175	.069	.048	.040	.035	.031	.027	.000	.000	.000	.000	.000	.000	.000	.000	.000
24	.563	.373	.292	.260	.183	.073	.052	.042	.038	.033	.029	.000	.000	.000	.000	.000	.000	.000	.000	.000
25	.577	.388	.304	.273	.192	.077	.056	.044	.040	.035	.031	.000	.000	.000	.000	.000	.000	.000	.000	.000
26	.590	.404	.317	.285	.200	.081	.060	.046	.042	.038	.033	.000	.000	.000	.000	.000	.000	.000	.000	.000
27	.600	.421	.331	.298	.208	.085	.065	.048	.044	.040	.035	.000	.000	.000	.000	.000	.000	.000	.000	.000
28	.610	.435	.346	.313	.217	.090	.069	.050	.046	.042	.038	.000	.000	.000	.000	.000	.000	.000	.000	.000
29	.621	.450	.358	.327	.227	.094	.073	.052	.048	.044	.040	.000	.000	.000	.000	.000	.000	.000	.000	.000
30	.631	.463	.371	.340	.238	.098	.077	.054	.050	.044	.042	.000	.000	.000	.000	.000	.000	.000	.000	.000
31	.642	.475	.383	.352	.246	.102	.081	.057	.052	.048	.044	.000	.000	.000	.000	.000	.000	.000	.000	.000
32	.652	.485	.394	.365	.254	.106	.085	.058	.054	.050	.046	.000	.000	.000	.000	.000	.000	.000	.000	.000
33	.663	.496	.404	.377	.263	.110	.090	.060	.056	.052	.048	.000	.000	.000	.000	.000	.000	.000	.000	.000
34	.673	.506	.413	.388	.271	.115	.094	.063	.058	.054	.050	.000	.000	.000	.000	.000	.000	.000	.000	.000
35	.683	.517	.423	.397	.279	.119	.098	.065	.060	.056	.052	.000	.000	.000	.000	.000	.000	.000	.000	.000
36	.694	.527	.433	.408	.285	.123	.102	.067	.063	.058	.054	.000	.000	.000	.000	.000	.000	.000	.000	.000
37	.704	.538	.444	.419	.292	.127	.106	.069	.065	.060	.056	.000	.000	.000	.000	.000	.000	.000	.000	.000
38	.715	.548	.454	.429	.298	.131	.110	.071	.067	.063	.058	.000	.000	.000	.000	.000	.000	.000	.000	.000
39	.725	.558	.465	.440	.304	.135	.115	.073	.069	.065	.060	.000	.000	.000	.000	.000	.000	.000	.000	.000
40	.735	.569	.475	.450	.310	.140	.119	.075	.071	.067	.063	.000	.000	.000	.000	.000	.000	.000	.000	.000

TOTAL OBSERVATIONS 440

TABLE 11. S. S. P. ... CONSECUTIVE LAUNCH OPPORTUNITIES IN J PERIODS (W<sub>0</sub> = 55 M/SEC).  
 BASED ON MAXIMUM WIND SPEEDS IN THE 10-15 KM LAYER OVER CAPE KENNEDY, FLORIDA.  
 PERIOD OF RECORD JANUARY 1956 - DECEMBER 1963.

CAPE KENNEDY, FLORIDA NOVEMBER

SPEEDS GREATER THAN OR EQUAL TO 055 MPS

P ( I SUCCESSES IN J PERIODS )

J	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
1	.077																			
2	.104	.054																		
3	.127	.075	.042																	
4	.150	.090	.060	.031																
5	.173	.104	.071	.050	.023															
6	.197	.117	.081	.058	.042	.015														
7	.221	.131	.092	.067	.048	.031	.010													
8	.246	.144	.104	.075	.054	.033	.027	.008												
9	.271	.156	.115	.085	.060	.035	.029	.025	.006											
10	.296	.171	.125	.096	.069	.038	.031	.027	.023	.004										
11	.321	.183	.138	.106	.079	.040	.033	.029	.025	.021	.002									
12	.346	.200	.148	.119	.090	.042	.035	.031	.027	.023	.019	.000								
13	.371	.217	.163	.133	.100	.044	.038	.033	.029	.025	.021	.015	.000							
14	.392	.233	.177	.148	.115	.046	.040	.035	.031	.027	.023	.019	.010	.000						
15	.413	.250	.192	.163	.129	.052	.042	.038	.033	.029	.025	.021	.015	.008	.000					
16	.431	.269	.206	.179	.144	.056	.046	.040	.035	.031	.027	.023	.017	.013	.006	.000				
17	.448	.285	.223	.196	.160	.060	.050	.042	.038	.033	.029	.025	.019	.015	.010	.004	.000			
18	.465	.300	.240	.210	.177	.067	.056	.044	.040	.035	.031	.027	.021	.017	.013	.008	.002	.000		
19	.481	.317	.254	.225	.194	.073	.063	.050	.042	.038	.033	.029	.023	.019	.015	.010	.006	.000	.000	
20	.498	.333	.269	.238	.208	.083	.069	.056	.048	.040	.035	.031	.025	.021	.017	.013	.008	.002	.000	.000
21	.515	.350	.283	.250	.221	.092	.077	.063	.054	.044	.038	.033	.027	.023	.019	.015	.010	.004	.000	.000
22	.531	.365	.300	.263	.233	.100	.083	.071	.060	.050	.040	.035	.029	.025	.021	.017	.013	.006	.000	.000
23	.548	.379	.313	.279	.246	.108	.090	.079	.067	.056	.042	.038	.031	.027	.023	.019	.015	.008	.000	.000
24	.563	.396	.327	.292	.263	.117	.096	.088	.073	.063	.044	.040	.033	.029	.025	.021	.017	.010	.000	.000
25	.577	.413	.344	.306	.275	.129	.102	.094	.081	.069	.048	.042	.035	.031	.027	.023	.019	.013	.000	.000
26	.590	.431	.360	.323	.288	.140	.110	.100	.088	.077	.052	.046	.038	.033	.029	.025	.021	.015	.000	.000
27	.600	.448	.377	.340	.302	.150	.119	.106	.094	.083	.058	.050	.042	.035	.031	.027	.023	.017	.000	.000
28	.611	.460	.398	.358	.317	.163	.127	.113	.100	.090	.065	.054	.046	.038	.033	.029	.025	.019	.000	.000
29	.621	.473	.410	.373	.333	.177	.135	.119	.106	.096	.071	.058	.050	.040	.035	.031	.027	.021	.000	.070
30	.631	.483	.425	.392	.354	.194	.144	.125	.113	.102	.077	.063	.054	.044	.038	.033	.029	.023	.000	.000
31	.642	.494	.435	.408	.365	.219	.152	.131	.119	.108	.083	.067	.058	.048	.042	.035	.031	.025	.000	.000
32	.652	.504	.446	.419	.381	.233	.173	.138	.125	.115	.090	.071	.063	.052	.046	.038	.033	.027	.000	.000
33	.663	.515	.456	.429	.392	.256	.183	.154	.131	.121	.096	.075	.067	.056	.050	.040	.035	.029	.000	.000
34	.673	.525	.467	.440	.402	.273	.202	.160	.148	.127	.102	.079	.071	.060	.054	.042	.038	.031	.000	.000
35	.683	.535	.477	.450	.413	.290	.217	.173	.154	.144	.108	.083	.075	.065	.058	.044	.040	.033	.000	.000
36	.694	.546	.488	.460	.423	.306	.231	.183	.163	.150	.125	.088	.079	.069	.063	.046	.042	.035	.000	.000
37	.704	.556	.498	.471	.433	.323	.246	.196	.173	.158	.131	.102	.083	.073	.067	.048	.044	.038	.000	.000
38	.715	.567	.508	.481	.444	.340	.260	.208	.183	.167	.138	.106	.098	.077	.071	.050	.046	.040	.000	.000
39	.725	.577	.519	.492	.454	.356	.275	.221	.194	.177	.144	.110	.104	.090	.075	.052	.048	.042	.000	.000
40	.735	.588	.529	.502	.465	.373	.290	.233	.204	.188	.152	.115	.108	.098	.085	.054	.050	.044	.000	.000

TOTAL OBSERVATIONS 480

TABLE 11. 9.1. P(W ≥ W<sub>0</sub>) : LAUNCH OPPORTUNITIES IN J PERIODS (W<sub>0</sub> = 55 M/SEC).  
 BASED ON MAXIMUM WIND SPEEDS IN THE 10-15 KM LAYER OVER CAPE KENNEDY, FLORIDA.  
 PERIOD OF RECORD JANUARY 1956 - DECEMBER 1963.



CAPE KENNEDY, FLORIDA NOVEMBER

SPFFDS GREATER THAN OR EQUAL TO 060 MPS

PC ( I CONSECUTIVE SUCCESSES IN J PERIODS )

J	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
1	.060																			
2	.083	.042																		
3	.106	.056	.031																	
4	.127	.071	.044	.021																
5	.144	.085	.056	.029	.015															
6	.163	.100	.069	.038	.021	.008														
7	.181	.113	.081	.046	.027	.010	.006													
8	.202	.123	.094	.054	.033	.013	.008	.004												
9	.223	.133	.102	.063	.040	.015	.010	.006	.002											
10	.244	.146	.110	.071	.046	.017	.013	.008	.004	.000										
11	.265	.158	.121	.077	.052	.019	.015	.010	.006	.000	.000									
12	.285	.171	.131	.083	.058	.021	.017	.013	.008	.000	.000	.000								
13	.306	.185	.142	.090	.063	.023	.019	.015	.010	.000	.000	.000	.000							
14	.325	.200	.154	.096	.067	.025	.021	.017	.013	.000	.000	.000	.000	.000						
15	.344	.215	.167	.104	.071	.027	.023	.019	.015	.000	.000	.000	.000	.000	.000					
16	.360	.229	.179	.113	.075	.029	.025	.021	.017	.000	.000	.000	.000	.000	.000	.000				
17	.375	.244	.192	.121	.079	.031	.027	.023	.019	.000	.000	.000	.000	.000	.000	.000	.000			
18	.390	.256	.204	.129	.083	.033	.029	.025	.021	.000	.000	.000	.000	.000	.000	.000	.000	.000		
19	.404	.269	.215	.138	.088	.035	.031	.027	.023	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	
20	.419	.283	.225	.144	.092	.038	.033	.029	.025	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
21	.433	.298	.238	.150	.094	.040	.035	.031	.027	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
22	.448	.313	.250	.158	.096	.042	.038	.033	.029	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
23	.463	.327	.263	.167	.098	.044	.040	.035	.031	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
24	.477	.340	.275	.175	.100	.046	.042	.038	.033	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
25	.494	.352	.288	.183	.102	.048	.044	.040	.035	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
26	.508	.367	.300	.192	.104	.050	.046	.042	.038	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
27	.521	.381	.313	.200	.106	.052	.048	.044	.040	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
28	.533	.394	.325	.208	.108	.054	.050	.046	.042	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
29	.546	.406	.335	.217	.110	.056	.052	.048	.044	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
30	.558	.419	.346	.223	.113	.058	.054	.050	.046	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
31	.571	.429	.356	.229	.115	.060	.056	.052	.048	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
32	.581	.440	.367	.235	.117	.063	.058	.054	.050	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
33	.592	.450	.375	.242	.119	.065	.060	.056	.052	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
34	.602	.458	.383	.248	.121	.067	.063	.058	.054	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
35	.613	.469	.392	.252	.123	.069	.065	.060	.056	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
36	.623	.479	.400	.256	.125	.071	.067	.063	.058	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
37	.633	.490	.407	.260	.125	.073	.069	.065	.060	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
38	.644	.500	.417	.265	.125	.075	.071	.067	.063	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
39	.654	.510	.425	.269	.125	.077	.073	.069	.065	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
40	.665	.521	.435	.273	.125	.079	.075	.071	.067	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000

TOTAL OBSERVATIONS 480

TABLE 11.10.a. P(W ≥ W\*) I CONSECUTIVE LAUNCH OPPORTUNITIES IN J PERIODS (W\* = 80 M/SEC).  
 BASED ON MAXIMUM WIND SPEEDS IN THE 10-15 KM LAYER OVER CAPE KENNEDY, FLORIDA.  
 PERIOD OF RECORD JANUARY 1956 - DECEMBER 1963.

CAPE KENNEDY, FLORIDA NOVEMBER  
SPEEDS GREATER THAN OR EQUAL TO 060 MPS

P ( I SUCCESSES IN J PERIODS )

J	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
1	.060																			
2	.083	.042																		
3	.106	.056	.031																	
4	.127	.073	.044	.021																
5	.144	.090	.058	.029	.015															
6	.163	.102	.075	.040	.021	.008														
7	.181	.115	.085	.054	.029	.010	.006													
8	.202	.125	.096	.060	.044	.015	.008	.004												
9	.223	.138	.104	.067	.048	.027	.013	.006	.002											
10	.244	.152	.115	.073	.052	.029	.025	.010	.004	.000										
11	.265	.165	.127	.081	.056	.031	.027	.023	.008	.000	.000									
12	.285	.179	.138	.092	.060	.033	.029	.025	.021	.002	.000	.000								
13	.306	.196	.150	.104	.065	.035	.031	.027	.023	.015	.000	.000	.000							
14	.325	.213	.163	.119	.071	.038	.033	.029	.025	.019	.008	.000	.000	.000						
15	.344	.229	.175	.133	.079	.040	.035	.031	.027	.023	.010	.006	.000	.000	.000					
16	.360	.248	.190	.148	.088	.042	.038	.033	.029	.025	.015	.008	.004	.000	.000	.000				
17	.375	.265	.206	.163	.096	.044	.040	.035	.031	.027	.017	.013	.006	.002	.000	.000	.000			
18	.390	.279	.223	.175	.104	.048	.042	.038	.033	.029	.019	.015	.010	.004	.000	.000	.000	.000		
19	.404	.294	.238	.190	.113	.052	.046	.040	.035	.031	.021	.017	.013	.008	.000	.000	.000	.000	.000	
20	.419	.308	.252	.202	.125	.056	.050	.042	.038	.033	.023	.019	.015	.010	.002	.000	.000	.000	.000	.000
21	.433	.323	.267	.215	.135	.063	.054	.044	.040	.035	.025	.021	.017	.013	.004	.000	.000	.000	.000	.000
22	.448	.335	.283	.227	.146	.069	.060	.046	.042	.038	.027	.023	.019	.015	.006	.000	.000	.000	.000	.000
23	.463	.348	.296	.244	.156	.075	.067	.048	.044	.040	.029	.025	.021	.017	.008	.000	.000	.000	.000	.000
24	.477	.363	.308	.256	.171	.081	.073	.050	.046	.042	.031	.027	.023	.019	.010	.000	.000	.000	.000	.000
25	.494	.377	.321	.269	.181	.092	.079	.054	.048	.044	.033	.029	.025	.021	.013	.000	.000	.000	.000	.000
26	.508	.396	.333	.281	.192	.100	.088	.058	.052	.046	.035	.031	.027	.023	.015	.000	.000	.000	.000	.000
27	.521	.413	.348	.294	.202	.108	.096	.063	.056	.050	.038	.033	.029	.025	.017	.000	.000	.000	.000	.000
28	.533	.427	.363	.308	.213	.117	.104	.067	.060	.054	.040	.035	.031	.027	.019	.000	.000	.000	.000	.000
29	.546	.440	.377	.321	.225	.125	.113	.071	.065	.058	.042	.038	.033	.029	.021	.000	.000	.000	.000	.000
30	.558	.452	.388	.335	.235	.135	.121	.075	.069	.063	.044	.040	.035	.031	.023	.000	.000	.000	.000	.000
31	.571	.465	.398	.344	.252	.146	.129	.079	.073	.067	.048	.042	.038	.033	.025	.000	.000	.000	.000	.000
32	.581	.479	.408	.352	.260	.165	.138	.083	.077	.071	.052	.044	.040	.035	.027	.000	.000	.000	.000	.000
33	.592	.490	.423	.360	.269	.173	.156	.088	.081	.075	.056	.046	.042	.038	.029	.000	.000	.000	.000	.000
34	.602	.500	.433	.375	.277	.181	.165	.102	.085	.079	.060	.048	.044	.040	.031	.000	.000	.000	.000	.000
35	.613	.510	.444	.385	.292	.190	.173	.106	.100	.083	.065	.050	.046	.042	.033	.000	.000	.000	.000	.000
36	.623	.521	.454	.396	.304	.202	.181	.110	.104	.098	.069	.052	.048	.044	.035	.000	.000	.000	.000	.000
37	.633	.531	.465	.406	.317	.213	.192	.115	.108	.102	.083	.054	.050	.046	.038	.000	.000	.000	.000	.000
38	.644	.542	.475	.419	.329	.223	.202	.119	.113	.106	.090	.065	.052	.048	.040	.000	.000	.000	.000	.000
39	.654	.552	.485	.431	.344	.233	.213	.123	.117	.110	.096	.069	.060	.050	.042	.000	.000	.000	.000	.000
40	.665	.563	.496	.444	.358	.246	.223	.127	.121	.115	.102	.073	.065	.056	.044	.000	.000	.000	.000	.000

TOTAL OBSERVATIONS 480

TABLE 11.10. b. P(W ≥ W0) I LAUNCH OPPORTUNITIES IN J PERIODS (W0 = 60 M/SEC).  
BASED ON MAXIMUM WIND SPEEDS IN THE 10-15 KM LAYER OVER CAPE KENNEDY, FLORIDA.

PERIOD OF RECORD JANUARY 1956 - DECEMBER 1963.

CAPE KENNEDY, FLORIDA NOVEMBER

SPEEDS GREATER THAN OR EQUAL TO 065 "PS

PC ( I CONSECUTIVE SUCCESSES IN J PERIODS )

J	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
1	.038																			
2	.054	.025																		
3	.069	.035	.017																	
4	.081	.046	.021	.015																
5	.092	.056	.025	.019	.013															
6	.104	.067	.029	.023	.017	.008														
7	.117	.075	.033	.027	.021	.010	.006													
8	.127	.083	.038	.031	.025	.013	.008	.004												
9	.140	.093	.040	.035	.029	.015	.010	.006	.002											
10	.154	.098	.042	.040	.033	.017	.013	.008	.004	.000										
11	.169	.106	.044	.042	.038	.019	.015	.010	.006	.000	.000									
12	.183	.115	.046	.044	.042	.021	.017	.013	.008	.000	.000	.000								
13	.198	.123	.048	.046	.044	.023	.019	.015	.010	.000	.000	.000	.000							
14	.213	.133	.050	.048	.046	.025	.021	.017	.013	.000	.000	.000	.000	.000						
15	.227	.144	.054	.050	.048	.027	.023	.019	.015	.000	.000	.000	.000	.000	.000					
16	.242	.154	.058	.052	.050	.029	.025	.021	.017	.000	.000	.000	.000	.000	.000	.000				
17	.254	.165	.063	.054	.052	.031	.027	.023	.019	.000	.000	.000	.000	.000	.000	.000	.000			
18	.267	.171	.067	.056	.054	.033	.029	.025	.021	.000	.000	.000	.000	.000	.000	.000	.000	.000		
19	.279	.181	.071	.058	.056	.035	.031	.027	.023	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	
20	.292	.190	.075	.060	.058	.038	.033	.029	.025	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
21	.304	.200	.079	.063	.060	.040	.035	.031	.027	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
22	.317	.210	.083	.065	.063	.042	.038	.033	.029	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
23	.329	.221	.088	.067	.065	.044	.040	.035	.031	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
24	.344	.231	.092	.069	.067	.046	.042	.038	.033	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
25	.358	.242	.096	.071	.069	.048	.044	.040	.035	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
26	.373	.252	.100	.073	.071	.050	.046	.042	.038	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
27	.385	.263	.104	.075	.073	.052	.048	.044	.040	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
28	.398	.271	.108	.077	.075	.054	.050	.046	.042	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
29	.408	.279	.113	.079	.077	.056	.052	.048	.044	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
30	.419	.286	.117	.081	.079	.058	.054	.050	.046	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
31	.429	.296	.121	.083	.081	.060	.056	.052	.048	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
32	.440	.304	.125	.085	.083	.063	.058	.054	.050	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
33	.448	.313	.129	.088	.085	.065	.060	.056	.052	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
34	.456	.319	.133	.090	.088	.067	.063	.058	.054	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
35	.465	.325	.138	.092	.090	.069	.065	.060	.056	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
36	.473	.331	.142	.094	.092	.071	.067	.063	.058	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
37	.481	.338	.146	.096	.094	.073	.069	.065	.060	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
38	.492	.344	.150	.098	.096	.075	.071	.067	.063	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
39	.502	.352	.154	.100	.098	.077	.073	.069	.065	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
40	.513	.360	.160	.102	.100	.079	.075	.071	.067	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000

TOTAL OBSERVATIONS 480

TABLE 11.11.a. P(W ≥ W\*) I CONSECUTIVE LAUNCH OPPORTUNITIES IN J PERIODS (W\* = 65 M/SEC).

BASED ON MAXIMUM WIND SPEEDS IN THE 10-15 KM LAYER OVER CAPE KENNEDY, FLORIDA.

PERIOD OF RECORD JANUARY 1956 - DECEMBER 1963.

CAPF KENNEDY • FLORIDA NOVEMBER  
 SPEEDS GREATER THAN OP FOIAL TO 065 MPS

P ( I SUCCESSES IN J PERIODS )

J	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
1	.038																			
2	.054	.025																		
3	.069	.038	.017																	
4	.081	.050	.023	.015																
5	.092	.063	.031	.019	.013															
6	.104	.071	.044	.023	.017	.008														
7	.117	.079	.050	.033	.021	.010	.006													
8	.127	.088	.056	.035	.033	.013	.008	.004												
9	.140	.094	.063	.038	.035	.025	.010	.006	.002											
10	.154	.102	.069	.040	.038	.027	.023	.008	.004	.000										
11	.169	.110	.075	.042	.040	.029	.025	.021	.003	.000	.000									
12	.183	.119	.081	.044	.042	.031	.027	.023	.019	.000	.000	.000								
13	.198	.131	.088	.046	.044	.033	.029	.025	.021	.010	.000	.000	.000							
14	.213	.146	.096	.048	.046	.035	.031	.027	.023	.013	.008	.000	.000	.000						
15	.227	.160	.104	.052	.048	.038	.033	.029	.025	.015	.010	.006	.000	.000	.000					
16	.242	.175	.115	.056	.050	.040	.035	.031	.027	.017	.013	.008	.004	.000	.000	.000				
17	.254	.190	.125	.060	.052	.042	.038	.033	.029	.019	.015	.010	.006	.002	.000	.000	.000			
18	.267	.202	.135	.065	.054	.044	.040	.035	.031	.021	.017	.013	.008	.004	.000	.000	.000	.000		
19	.279	.215	.146	.069	.056	.046	.042	.038	.033	.023	.019	.015	.010	.006	.000	.000	.000	.000	.000	
20	.292	.227	.158	.075	.058	.048	.044	.040	.035	.025	.021	.017	.013	.008	.000	.000	.000	.000	.000	.000
21	.304	.240	.169	.081	.063	.050	.046	.042	.038	.027	.023	.019	.015	.010	.000	.000	.000	.000	.000	.000
22	.317	.252	.179	.088	.067	.052	.048	.044	.040	.029	.025	.021	.017	.013	.000	.000	.000	.000	.000	.000
23	.329	.265	.190	.094	.071	.054	.050	.046	.042	.031	.027	.023	.019	.015	.000	.000	.000	.000	.000	.000
24	.344	.277	.200	.100	.075	.056	.052	.048	.044	.033	.029	.025	.021	.017	.000	.000	.000	.000	.000	.000
25	.358	.290	.210	.106	.079	.058	.054	.050	.046	.035	.031	.027	.023	.019	.000	.000	.000	.000	.000	.000
26	.373	.302	.221	.113	.083	.063	.056	.052	.048	.038	.033	.029	.025	.021	.000	.000	.000	.000	.000	.000
27	.385	.315	.231	.119	.088	.067	.060	.054	.050	.040	.035	.031	.027	.023	.000	.000	.000	.000	.000	.000
28	.398	.325	.242	.125	.092	.071	.065	.056	.052	.042	.038	.033	.029	.025	.000	.000	.000	.000	.000	.000
29	.408	.338	.252	.131	.096	.075	.069	.058	.054	.044	.040	.035	.031	.027	.000	.000	.000	.000	.000	.000
30	.419	.348	.263	.138	.100	.079	.073	.060	.056	.046	.042	.038	.033	.029	.000	.000	.000	.000	.000	.000
31	.429	.358	.271	.146	.104	.083	.077	.063	.058	.048	.044	.040	.035	.031	.000	.000	.000	.000	.000	.000
32	.440	.367	.281	.152	.110	.088	.081	.065	.060	.050	.046	.042	.038	.033	.000	.000	.000	.000	.000	.000
33	.448	.377	.288	.163	.115	.094	.085	.067	.063	.052	.048	.044	.040	.035	.000	.000	.000	.000	.000	.000
34	.456	.388	.294	.169	.123	.098	.092	.069	.065	.054	.050	.046	.042	.038	.000	.000	.000	.000	.000	.000
35	.465	.396	.302	.175	.127	.106	.096	.073	.067	.056	.052	.048	.044	.040	.000	.000	.000	.000	.000	.000
36	.473	.404	.308	.183	.131	.110	.104	.075	.071	.058	.054	.050	.046	.042	.000	.000	.000	.000	.000	.000
37	.481	.413	.315	.192	.135	.115	.108	.081	.073	.063	.056	.052	.048	.044	.000	.000	.000	.000	.000	.000
38	.492	.421	.321	.200	.140	.119	.113	.083	.079	.067	.058	.054	.050	.046	.000	.000	.000	.000	.000	.000
39	.502	.431	.327	.208	.144	.123	.117	.085	.081	.075	.060	.056	.052	.048	.000	.000	.000	.000	.000	.000
40	.513	.442	.335	.217	.148	.127	.121	.088	.083	.079	.067	.058	.054	.050	.000	.000	.000	.000	.000	.000

TOTAL OBSERVATIONS 480

TABLE 11.11.b. P(W<sub>≥</sub> W\*) I LAUNCH OPPORTUNITIES IN J PERIODS (W\* = 65 M/SEC).  
 BASED ON MAXIMUM WIND SPEEDS IN THE 10-15 KM LAYER OVER CAPE KENNEDY, FLORIDA.  
 PERIOD OF RECORD JANUARY 1954 - DECEMBER 1963.

CAPE KENNEDY, FLORIDA NOVEMBER  
SPEEDS GREATER THAN OR EQUAL TO 070 MPS

PC ( I CONSECUTIVE SUCCESSES IN J PERIODS )

J	I																			
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
1	.023																			
2	.033	.017																		
3	.044	.021	.015																	
4	.054	.025	.019	.013																
5	.063	.029	.023	.017	.010															
6	.071	.033	.027	.021	.015	.006														
7	.079	.035	.031	.025	.019	.008	.004													
8	.088	.038	.035	.029	.023	.010	.006	.002												
9	.096	.040	.038	.033	.027	.013	.008	.004	.000											
10	.106	.042	.040	.038	.031	.015	.010	.006	.000	.000										
11	.117	.044	.042	.040	.035	.017	.013	.008	.000	.000	.000									
12	.127	.046	.044	.042	.040	.019	.015	.010	.000	.000	.000	.000								
13	.142	.048	.046	.044	.042	.021	.017	.013	.000	.000	.000	.000	.000							
14	.156	.052	.048	.046	.044	.023	.019	.015	.000	.000	.000	.000	.000	.000						
15	.171	.056	.052	.048	.046	.025	.021	.017	.000	.000	.000	.000	.000	.000	.000					
16	.185	.060	.056	.050	.042	.027	.023	.019	.000	.000	.000	.000	.000	.000	.000	.000				
17	.198	.065	.060	.052	.050	.029	.025	.021	.000	.000	.000	.000	.000	.000	.000	.000	.000			
18	.210	.069	.065	.054	.052	.031	.027	.023	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000		
19	.223	.073	.069	.056	.054	.033	.029	.025	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	
20	.235	.077	.073	.058	.056	.035	.031	.027	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
21	.248	.081	.077	.060	.058	.038	.033	.029	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
22	.260	.085	.081	.063	.060	.040	.035	.031	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
23	.273	.090	.085	.065	.063	.042	.038	.033	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
24	.288	.094	.090	.067	.065	.044	.040	.035	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
25	.302	.098	.094	.069	.067	.046	.042	.038	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
26	.317	.102	.098	.071	.069	.048	.044	.040	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
27	.331	.106	.102	.073	.071	.050	.046	.042	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
28	.344	.110	.106	.075	.073	.052	.048	.044	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
29	.356	.115	.110	.077	.075	.054	.050	.046	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
30	.369	.119	.115	.079	.077	.056	.052	.048	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
31	.381	.123	.119	.081	.079	.058	.054	.050	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
32	.394	.127	.123	.083	.081	.060	.056	.052	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
33	.406	.131	.127	.085	.083	.063	.058	.054	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
34	.417	.135	.131	.088	.085	.065	.060	.056	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
35	.425	.140	.135	.090	.088	.067	.063	.058	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
36	.433	.144	.140	.092	.090	.069	.065	.060	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
37	.442	.148	.144	.094	.092	.071	.067	.063	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
38	.450	.152	.148	.096	.094	.073	.069	.065	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
39	.460	.156	.152	.098	.096	.075	.071	.067	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
40	.471	.160	.156	.100	.098	.077	.073	.069	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000

TOTAL OBSERVATIONS 480

TABLE 11, 12 a, P(W ≥ W\*) I CONSECUTIVE LAUNCH OPPORTUNITIES IN J PERIODS (W\* = 70 M/SEC).  
BASED ON MAXIMUM WIND SPEEDS IN THE 10-15 KM LAYER OVER CAPE KENNEDY, FLORIDA.  
PERIOD OF RECORD JANUARY 1956 - DECEMBER 1963.

CAPE KENNEDY, FLORIDA NOVEMBER

SPEEDS GREATER THAN OR EQUAL TO 070 MPS

P ( I SUCCESSES IN J PERIODS )

	I																			
J	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
1	.023																			
2	.033	.017																		
3	.044	.021	.015																	
4	.054	.025	.019	.013																
5	.063	.031	.023	.017	.010															
6	.071	.033	.031	.021	.015	.006														
7	.079	.035	.033	.031	.019	.008	.004													
8	.088	.038	.035	.033	.031	.010	.006	.002												
9	.096	.040	.038	.035	.033	.023	.008	.004	.000											
10	.106	.042	.040	.038	.035	.025	.021	.006	.000	.000										
11	.117	.044	.042	.040	.038	.027	.023	.019	.000	.000	.000									
12	.127	.046	.044	.042	.040	.029	.025	.021	.010	.000	.000	.000								
13	.142	.048	.046	.044	.042	.031	.027	.023	.013	.008	.000	.000	.000							
14	.156	.052	.048	.046	.044	.033	.029	.025	.015	.010	.006	.000	.000	.000						
15	.171	.056	.052	.048	.046	.035	.031	.027	.017	.013	.008	.004	.000	.000	.000					
16	.185	.060	.056	.050	.048	.038	.033	.029	.019	.015	.010	.006	.002	.000	.000	.000				
17	.198	.065	.060	.052	.050	.040	.035	.031	.021	.017	.013	.008	.004	.000	.000	.000	.000			
18	.210	.069	.065	.054	.052	.042	.038	.033	.023	.019	.015	.010	.006	.000	.000	.000	.000	.000		
19	.223	.073	.069	.056	.054	.044	.040	.035	.025	.021	.017	.013	.008	.000	.000	.000	.000	.000	.000	
20	.235	.079	.073	.058	.056	.046	.042	.038	.027	.023	.019	.015	.010	.000	.000	.000	.000	.000	.000	.000
21	.248	.085	.077	.060	.058	.048	.044	.040	.029	.025	.021	.017	.013	.000	.000	.000	.000	.000	.000	.000
22	.260	.092	.081	.063	.060	.050	.046	.042	.031	.027	.023	.019	.015	.000	.000	.000	.000	.000	.000	.000
23	.273	.098	.085	.065	.063	.052	.048	.044	.033	.029	.025	.021	.017	.000	.000	.000	.000	.000	.000	.000
24	.288	.104	.090	.067	.065	.054	.050	.046	.035	.031	.027	.023	.019	.000	.000	.000	.000	.000	.000	.000
25	.302	.110	.094	.069	.067	.056	.052	.048	.038	.033	.029	.025	.021	.000	.000	.000	.000	.000	.000	.000
26	.317	.117	.098	.071	.069	.058	.054	.051	.040	.035	.031	.027	.023	.000	.000	.000	.000	.000	.000	.000
27	.331	.125	.102	.073	.071	.060	.056	.052	.042	.038	.033	.029	.025	.000	.000	.000	.000	.000	.000	.000
28	.344	.133	.106	.075	.073	.063	.058	.054	.044	.040	.035	.031	.027	.000	.000	.000	.000	.000	.000	.000
29	.356	.142	.110	.077	.075	.065	.060	.056	.046	.042	.038	.033	.029	.000	.000	.000	.000	.000	.000	.000
30	.369	.150	.115	.079	.077	.067	.063	.058	.048	.044	.040	.035	.031	.000	.000	.000	.000	.000	.000	.000
31	.391	.158	.119	.081	.079	.069	.065	.060	.050	.046	.042	.038	.033	.000	.000	.000	.000	.000	.000	.000
32	.354	.167	.123	.083	.081	.071	.067	.063	.052	.048	.044	.040	.035	.000	.000	.000	.000	.000	.000	.000
33	.406	.175	.127	.085	.083	.073	.069	.065	.054	.050	.046	.042	.038	.000	.000	.000	.000	.000	.000	.000
34	.417	.185	.131	.088	.085	.075	.071	.067	.056	.052	.048	.044	.040	.000	.000	.000	.000	.000	.000	.000
35	.425	.196	.138	.090	.088	.077	.073	.069	.058	.054	.050	.046	.042	.000	.000	.000	.000	.000	.000	.000
36	.433	.206	.142	.094	.090	.079	.075	.071	.060	.056	.052	.048	.044	.000	.000	.000	.000	.000	.000	.000
37	.442	.217	.146	.096	.094	.081	.077	.073	.063	.058	.054	.050	.046	.000	.000	.000	.000	.000	.000	.000
38	.450	.227	.150	.098	.096	.085	.079	.075	.065	.060	.056	.052	.048	.000	.000	.000	.000	.000	.000	.000
39	.460	.238	.154	.100	.098	.088	.083	.077	.067	.063	.058	.054	.050	.000	.000	.000	.000	.000	.000	.000
40	.471	.248	.158	.102	.100	.090	.085	.081	.069	.065	.060	.056	.052	.000	.000	.000	.000	.000	.000	.000

TOTAL OBSERVATIONS 480

TABLE 11.12.b. P(W ≥ W\*) I LAUNCH OPPORTUNITIES IN J PERIODS (W\* = 70 M/SEC).  
 BASED ON MAXIMUM WIND SPEEDS IN THE 10-15 KM LAYER OVER CAPE KENNEDY, FLORIDA.  
 PERIOD OF RECORD JANUARY 1956 - DECEMBER 1963.

CAPE KENNEDY, FLORIDA NOVEMBER  
 SPEEDS GREATER THAN OR EQUAL TO 075 MPS

PC ( I CONSECUTIVE SUCCESSES IN J PERIODS )

	I																			
J	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
1	.015																			
2	.021	.010																		
3	.027	.015	.008																	
4	.033	.019	.013	.006																
5	.040	.023	.017	.008	.004															
6	.046	.027	.021	.010	.006	.002														
7	.052	.031	.025	.013	.008	.004	.000													
8	.056	.035	.029	.015	.010	.006	.000	.000												
9	.060	.040	.033	.017	.013	.008	.000	.000	.000											
10	.067	.042	.038	.019	.015	.010	.000	.000	.000	.000										
11	.073	.044	.042	.021	.017	.013	.000	.000	.000	.000	.000									
12	.079	.046	.044	.023	.019	.015	.000	.000	.000	.000	.000	.000								
13	.085	.048	.046	.025	.021	.017	.000	.000	.000	.000	.000	.000	.000							
14	.092	.050	.048	.027	.023	.019	.000	.000	.000	.000	.000	.000	.000	.000						
15	.100	.052	.050	.029	.025	.021	.000	.000	.000	.000	.000	.000	.000	.000	.000					
16	.108	.054	.052	.031	.027	.023	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000				
17	.117	.056	.054	.033	.029	.025	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000			
18	.125	.058	.056	.035	.031	.027	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000		
19	.133	.060	.058	.038	.033	.029	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	
20	.142	.063	.060	.040	.035	.031	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
21	.150	.065	.063	.042	.038	.033	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
22	.158	.067	.065	.044	.040	.035	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
23	.167	.069	.067	.046	.042	.038	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
24	.177	.071	.069	.048	.044	.040	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
25	.188	.073	.071	.050	.046	.042	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
26	.198	.075	.073	.052	.048	.044	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
27	.208	.077	.075	.054	.050	.046	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
28	.217	.079	.077	.056	.052	.048	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
29	.225	.081	.079	.058	.054	.050	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
30	.233	.083	.081	.060	.056	.052	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
31	.242	.085	.083	.063	.058	.054	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
32	.250	.088	.085	.065	.060	.056	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
33	.258	.090	.088	.067	.063	.058	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
34	.267	.092	.090	.069	.065	.060	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
35	.275	.094	.092	.071	.067	.063	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
36	.283	.096	.094	.073	.069	.065	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
37	.292	.098	.096	.075	.071	.067	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
38	.300	.100	.098	.077	.073	.069	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
39	.310	.102	.100	.079	.075	.071	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
40	.321	.104	.102	.081	.077	.073	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000

TOTAL OBSERVATIONS 480

TABLE 11, 13, a, P(N ≥ W) I CONSECUTIVE LAUNCH OPPORTUNITIES IN J PERIODS (W = 75 M/SEC).  
 BASED ON MAXIMUM WIND SPEEDS IN THE 10-15 KM LAYER OVER CAPE KENNEDY, FLORIDA.  
 PERIOD OF RECORD JANUARY 1956 - DECEMBER 1963.

CAPE KENNEDY . FLORIDA NOVEMBER  
SPEEDS GREATER THAN OR EQUAL TO 075 MPS

P ( I SUCCESSES IN J PERIODS )

	I																			
J	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
1	.015																			
2	.021	.010																		
3	.027	.015	.008																	
4	.033	.019	.013	.006																
5	.040	.023	.017	.008	.004															
6	.046	.027	.021	.010	.006	.002														
7	.052	.031	.025	.013	.008	.004	.000													
8	.056	.038	.029	.015	.010	.006	.000	.000												
9	.060	.040	.038	.017	.013	.008	.000	.000	.000											
10	.067	.042	.040	.025	.015	.010	.000	.000	.000	.000										
11	.073	.044	.042	.027	.023	.013	.000	.000	.000	.000	.000									
12	.079	.046	.044	.029	.025	.021	.000	.000	.000	.000	.000	.000								
13	.085	.048	.046	.031	.027	.023	.006	.000	.000	.000	.000	.000	.000							
14	.092	.050	.048	.033	.029	.025	.008	.004	.000	.000	.000	.000	.000	.000						
15	.100	.052	.050	.035	.031	.027	.010	.006	.002	.000	.000	.000	.000	.000	.000					
16	.108	.054	.052	.038	.033	.029	.013	.008	.004	.000	.000	.000	.000	.000	.000	.000				
17	.117	.056	.054	.040	.035	.031	.015	.010	.006	.000	.000	.000	.000	.000	.000	.000	.000			
18	.125	.058	.056	.042	.038	.033	.017	.013	.008	.000	.000	.000	.000	.000	.000	.000	.000	.000		
19	.133	.060	.058	.044	.040	.035	.019	.015	.010	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	
20	.142	.063	.060	.046	.042	.038	.021	.017	.013	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
21	.150	.065	.063	.048	.044	.040	.023	.019	.015	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
22	.158	.067	.065	.050	.046	.042	.025	.021	.017	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
23	.167	.069	.067	.052	.048	.044	.027	.023	.019	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
24	.177	.071	.069	.054	.050	.046	.029	.025	.021	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
25	.188	.073	.071	.056	.052	.048	.031	.027	.023	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
26	.198	.075	.073	.058	.054	.050	.033	.029	.025	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
27	.208	.077	.075	.060	.056	.052	.035	.031	.027	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
28	.217	.079	.077	.063	.058	.054	.038	.033	.029	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
29	.225	.081	.079	.065	.060	.056	.040	.035	.031	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
30	.233	.083	.081	.067	.063	.058	.042	.038	.033	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
31	.242	.085	.083	.069	.065	.060	.044	.040	.035	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
32	.250	.088	.085	.071	.067	.063	.046	.042	.038	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
33	.258	.090	.088	.073	.069	.065	.048	.044	.040	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
34	.267	.092	.090	.075	.071	.067	.050	.046	.042	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
35	.275	.094	.092	.077	.073	.069	.052	.048	.044	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
36	.283	.096	.094	.079	.075	.071	.054	.050	.046	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
37	.292	.098	.096	.081	.077	.073	.056	.052	.048	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
38	.300	.100	.098	.083	.079	.075	.058	.054	.050	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
39	.310	.102	.100	.085	.081	.077	.060	.056	.052	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
40	.321	.104	.102	.088	.083	.079	.063	.058	.054	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
TOTAL OBSERVATIONS 480																				

TABLE 11. 15. b. P(W ≥ W\*) I LAUNCH OPPORTUNITIES IN J PERIODS (W\* = 75 M/SEC).  
BASED ON MAXIMUM WIND SPEEDS IN THE 10-15 KM LAYER OVER CAPE KENNEDY, FLORIDA.  
PERIOD OF RECORD JANUARY 1956 - DECEMBER 1963.



CAPE KENNEDY, FLORIDA NOVEMBER  
 SPEEDS GREATER THAN OR EQUAL TO 80 MPS

PC ( I CONSECUTIVE SUCCESSES IN J PERIODS )

J	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
1	.010																			
2	.015	.006																		
3	.017	.010	.002																	
4	.019	.015	.004	.000																
5	.021	.017	.006	.000	.000															
6	.023	.019	.008	.000	.000	.000														
7	.025	.021	.010	.000	.000	.000	.000													
8	.027	.023	.013	.000	.000	.000	.000	.000												
9	.029	.025	.015	.000	.000	.000	.000	.000	.000											
10	.033	.027	.017	.000	.000	.000	.000	.000	.000	.000										
11	.038	.029	.019	.000	.000	.000	.000	.000	.000	.000	.000									
12	.042	.031	.021	.000	.000	.000	.000	.000	.000	.000	.000	.000								
13	.046	.033	.023	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000							
14	.050	.035	.025	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000						
15	.054	.034	.027	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000					
16	.058	.040	.029	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000				
17	.063	.042	.031	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000			
18	.067	.044	.033	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000		
19	.071	.046	.035	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	
20	.075	.048	.038	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
21	.079	.050	.040	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
22	.083	.052	.042	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
23	.088	.054	.044	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
24	.092	.056	.046	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
25	.096	.058	.048	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
26	.100	.060	.050	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
27	.104	.063	.052	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
28	.108	.065	.054	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
29	.113	.067	.056	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
30	.117	.069	.058	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
31	.121	.071	.060	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
32	.125	.073	.063	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
33	.129	.075	.065	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
34	.133	.077	.067	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
35	.138	.079	.069	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
36	.142	.081	.071	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
37	.146	.083	.073	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
38	.150	.085	.075	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
39	.156	.088	.077	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
40	.163	.090	.079	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
TOTAL OBSERV	JNS 480																			

TABLE 11.14. a. P(W ≥ W\*) I CONSECUTIVE LAUNCH OPPORTUNITIES IN J PERIODS (W\* = 80 M/SEC).  
 BASED ON MAXIMUM WIND SPEEDS IN THE 10-15 KM LAYER OVER CAPE KENNEDY, FLORIDA.  
 PERIOD OF RECORD JANUARY 1956 - DECEMBER 1963.

CAPE KENNEDY, FLORIDA NOVEMBER  
SPEEDS GREATER THAN OR EQUAL TO 80 MPS

P ( I SUCCESSES IN J PERIODS )

J	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
1	.010																			
2	.015	.006																		
3	.017	.013	.002																	
4	.019	.015	.008	.000																
5	.021	.017	.010	.004	.000															
6	.023	.019	.013	.006	.002	.000														
7	.025	.021	.015	.008	.004	.000	.000													
8	.027	.023	.017	.010	.006	.000	.000	.000												
9	.029	.025	.019	.013	.008	.000	.000	.000	.000											
10	.033	.027	.021	.015	.010	.000	.000	.000	.000	.000										
11	.038	.029	.023	.017	.013	.000	.000	.000	.000	.000	.000									
12	.042	.031	.025	.019	.015	.000	.000	.000	.000	.000	.000	.000								
13	.046	.033	.027	.021	.017	.000	.000	.000	.000	.000	.000	.000	.000							
14	.050	.035	.029	.023	.019	.000	.000	.000	.000	.000	.000	.000	.000	.000						
15	.054	.038	.031	.025	.021	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000					
16	.058	.040	.033	.027	.023	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000				
17	.063	.042	.035	.029	.025	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000			
18	.067	.044	.038	.031	.027	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000		
19	.071	.046	.040	.033	.029	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	
20	.075	.048	.042	.035	.031	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
21	.077	.050	.044	.038	.033	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
22	.083	.052	.046	.040	.035	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
23	.088	.054	.048	.042	.038	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
24	.092	.056	.050	.044	.040	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
25	.096	.058	.052	.046	.042	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
26	.100	.060	.054	.048	.044	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
27	.104	.063	.056	.050	.046	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
28	.108	.065	.058	.052	.048	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
29	.113	.067	.060	.054	.050	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
30	.117	.069	.063	.056	.052	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
31	.121	.071	.065	.058	.054	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
32	.125	.073	.067	.060	.056	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
33	.129	.075	.069	.063	.058	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
34	.133	.077	.071	.065	.060	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
35	.138	.079	.073	.067	.063	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
36	.142	.081	.075	.069	.065	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
37	.146	.083	.077	.071	.067	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
38	.150	.085	.079	.073	.069	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
39	.156	.088	.081	.075	.071	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
40	.163	.090	.083	.077	.073	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000

TOTAL OBSERVATIONS 480

TABLE 11.14.b. P(W ≥ W<sub>0</sub>) I LAUNCH OPPORTUNITIES IN J PERIODS (W<sub>0</sub> = 80 M/SEC).  
BASED ON MAXIMUM WIND SPEEDS IN THE 10-15 KM LAYER OVER CAPE KENNEDY, FLORIDA.  
PERIOD OF RECORD JANUARY 1956 - DECEMBER 1963.

CAPE KENNEDY, FLORIDA DECEMBER  
SPEEDS GREATER THAN OR EQUAL TO 020 MPS

PC ( I CONSECUTIVE SUCCESSES IN J PERIODS )

	I																			
J	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
1	.978																			
2	.988	.968																		
3	.992	.978	.958																	
4	.994	.982	.968	.948																
5	.996	.992	.978	.958	.938															
6	.998	.994	.988	.968	.948	.927														
7	1.00	.996	.992	.978	.958	.938	.917													
8	1.00	.998	.994	.988	.968	.948	.927	.909												
9	1.00	1.00	.996	.992	.978	.958	.938	.919	.901											
10	1.00	1.00	.998	.994	.988	.968	.948	.929	.911	.893										
11	1.00	1.00	1.00	.996	.992	.978	.958	.940	.921	.903	.885									
12	1.00	1.00	1.00	.998	.994	.988	.968	.950	.931	.913	.895	.877								
13	1.00	1.00	1.00	1.00	.996	.992	.978	.960	.942	.923	.905	.885	.871							
14	1.00	1.00	1.00	1.00	.998	.994	.988	.970	.952	.933	.915	.893	.879	.865						
15	1.00	1.00	1.00	1.00	1.00	.996	.992	.980	.962	.944	.925	.901	.887	.873	.861					
16	1.00	1.00	1.00	1.00	1.00	.998	.994	.990	.974	.954	.935	.909	.895	.881	.869	.857				
17	1.00	1.00	1.00	1.00	1.00	1.00	.996	.992	.982	.964	.946	.917	.903	.889	.877	.865	.853			
18	1.00	1.00	1.00	1.00	1.00	1.00	.998	.994	.990	.974	.956	.925	.911	.897	.885	.873	.861	.849		
19	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.996	.992	.982	.966	.933	.919	.905	.893	.881	.869	.857	.845	
20	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.998	.994	.990	.974	.942	.927	.913	.901	.889	.877	.865	.853	.841
21	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.996	.992	.982	.968	.935	.921	.909	.897	.885	.873	.861	.849
22	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.998	.994	.990	.974	.942	.929	.917	.905	.893	.881	.869	.857
23	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.996	.992	.960	.948	.935	.925	.913	.901	.889	.877	.865
24	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.998	.994	.966	.954	.942	.931	.921	.909	.897	.885	.873
25	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.996	.970	.960	.948	.938	.927	.917	.905	.893	.881
26	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.998	.974	.966	.954	.944	.933	.923	.913	.901	.889
27	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.978	.970	.960	.950	.940	.929	.919	.909	.897
28	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.982	.974	.966	.956	.946	.935	.925	.915	.905
29	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.986	.978	.970	.962	.952	.942	.931	.921	.911
30	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.988	.982	.974	.968	.958	.948	.938	.927	.917
31	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.990	.986	.978	.972	.964	.954	.944	.933	.923
32	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.992	.988	.982	.976	.970	.960	.950	.940	.929
33	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.994	.990	.986	.980	.974	.964	.956	.946	.935
34	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.996	.992	.988	.984	.978	.972	.962	.952	.942
35	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.998	.994	.990	.986	.982	.976	.968	.958	.948
36	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.996	.992	.988	.984	.980	.974	.964	.954
37	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.998	.994	.990	.986	.982	.978	.970	.960
38	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.996	.992	.988	.984	.980	.976	.966
39	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.998	.994	.990	.986	.982	.978
40	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.996	.992	.988	.984	.980

TOTAL OBSERVATIONS 496

TABLE 12. I.A.  $P(N \geq N_0)$  I CONSECUTIVE LAUNCH OPPORTUNITIES IN J PERIODS ( $N_0 = 30$  M/SEC).  
BASED ON MAXIMUM WIND SPEEDS IN THE 10-15 KM LAYER OVER CAPE KENNEDY, FLORIDA.  
PERIOD OF RECORD JANUARY 1956 - DECEMBER 1963.

CAPE KENNEDY, FLORIDA DECEMBER  
 SPEEDS GREATER THAN OR EQUAL TO 020 MPS

P ( I SUCCESSES IN J PERIODS )

	I																			
J	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
1	.978																			
2	.988	.968																		
3	.992	.984	.958																	
4	.994	.990	.980	.948																
5	.996	.992	.988	.976	.938															
6	.998	.994	.990	.986	.972	.927														
7	1.00	.996	.992	.988	.984	.968	.917													
8	1.00	1.00	.994	.990	.986	.982	.964	.909												
9	1.00	1.00	1.00	.992	.988	.984	.980	.962	.901											
10	1.00	1.00	1.00	1.00	.990	.986	.982	.978	.960	.893										
11	1.00	1.00	1.00	1.00	1.00	.988	.984	.980	.976	.958	.885									
12	1.00	1.00	1.00	1.00	1.00	1.00	.986	.982	.978	.974	.956	.877								
13	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.984	.980	.976	.972	.952	.871							
14	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.982	.978	.974	.970	.948	.865						
15	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.980	.976	.972	.968	.944	.861					
16	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.978	.974	.970	.966	.942	.857				
17	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.976	.972	.968	.966	.940	.853			
18	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.974	.970	.968	.966	.938	.849		
19	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.972	.970	.968	.966	.935	.845	
20	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.972	.970	.968	.966	.933	.841
21	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.972	.970	.968	.966	.931
22	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.972	.970	.968	.966
23	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.972	.970	.968
24	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.972	.970
25	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.972
26	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
27	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
28	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
29	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
30	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
31	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
32	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
33	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
34	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
35	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
36	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
37	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
38	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
39	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
40	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00

TOTAL OBSERVATIONS 496

TABLE 12. 1.0. P(W ≥ W\*) I LAUNCH OPPORTUNITIES IN J PERIODS (W\* = 20 M/SEC).  
 BASED ON MAXIMUM WIND SPEEDS IN THE 10-15 KM LAYER OVER CAPE KENNEDY, FLORIDA.  
 PERIOD OF RECORD JANUARY 1956 - DECEMBER 1963.

CAPF KENNEDY, FLORIDA DECEMBER  
 SPEEDS GREATER THAN OR EQUAL TO 025 MPS

PC ( I CONSECUTIVE SUCCESSES IN J PERIODS )

	I																			
J	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
1	.881																			
2	.925	.839																		
3	.962	.873	.806																	
4	.976	.907	.833	.784																
5	.986	.933	.859	.806	.766															
6	.990	.948	.883	.829	.788	.748														
7	.992	.962	.905	.849	.810	.768	.732													
8	.994	.974	.917	.869	.831	.788	.752	.716												
9	.996	.982	.929	.887	.851	.806	.772	.734	.704											
10	.998	.988	.940	.897	.871	.825	.790	.752	.722	.692										
11	1.00	.990	.948	.907	.889	.843	.808	.768	.740	.710	.679									
12	1.00	.992	.956	.917	.899	.861	.827	.784	.756	.728	.696	.669								
13	1.00	.994	.960	.925	.909	.877	.845	.800	.772	.744	.712	.685	.659							
14	1.00	.996	.964	.931	.919	.887	.863	.817	.788	.760	.726	.702	.675	.653						
15	1.00	.998	.968	.935	.925	.897	.879	.833	.804	.776	.740	.716	.692	.669	.647					
16	1.00	1.00	.972	.940	.931	.905	.889	.849	.821	.792	.754	.730	.706	.685	.663	.641				
17	1.00	1.00	.974	.944	.935	.911	.897	.863	.837	.808	.768	.744	.720	.700	.679	.657	.635			
18	1.00	1.00	.976	.948	.940	.917	.905	.871	.853	.825	.782	.758	.734	.714	.694	.673	.651	.629		
19	1.00	1.00	.978	.952	.944	.921	.911	.879	.867	.841	.796	.772	.748	.728	.708	.688	.667	.643	.625	
20	1.00	1.00	.980	.956	.948	.925	.917	.887	.875	.857	.810	.786	.762	.742	.722	.702	.681	.657	.639	.619
21	1.00	1.00	.982	.960	.952	.929	.921	.893	.883	.871	.825	.800	.776	.756	.736	.716	.696	.669	.653	.633
22	1.00	1.00	.984	.964	.956	.933	.925	.899	.891	.879	.839	.815	.790	.770	.750	.730	.710	.681	.665	.647
23	1.00	1.00	.986	.968	.960	.938	.929	.903	.897	.887	.851	.829	.804	.784	.764	.744	.724	.694	.677	.659
24	1.00	1.00	.988	.970	.964	.942	.933	.907	.903	.895	.859	.843	.819	.798	.778	.758	.738	.706	.690	.671
25	1.00	1.00	.990	.972	.968	.946	.938	.911	.907	.901	.867	.855	.833	.813	.792	.772	.752	.718	.702	.683
26	1.00	1.00	.992	.974	.970	.950	.942	.915	.911	.907	.875	.863	.847	.827	.806	.786	.766	.730	.714	.696
27	1.00	1.00	.994	.976	.972	.954	.946	.919	.915	.911	.883	.871	.859	.841	.821	.800	.780	.742	.726	.708
28	1.00	1.00	.996	.978	.974	.956	.950	.923	.919	.915	.891	.879	.867	.853	.835	.815	.794	.754	.738	.720
29	1.00	1.00	.998	.980	.976	.958	.954	.927	.923	.919	.897	.887	.875	.863	.847	.829	.808	.766	.750	.732
30	1.00	1.00	1.00	.982	.978	.960	.956	.931	.927	.923	.903	.895	.883	.871	.857	.841	.823	.778	.762	.744
31	1.00	1.00	1.00	.984	.980	.962	.958	.935	.931	.927	.909	.901	.891	.879	.867	.851	.835	.790	.774	.756
32	1.00	1.00	1.00	.986	.982	.964	.960	.940	.935	.931	.915	.907	.899	.887	.875	.861	.845	.802	.786	.768
33	1.00	1.00	1.00	.988	.984	.966	.962	.944	.940	.935	.921	.913	.905	.895	.883	.871	.855	.813	.798	.780
34	1.00	1.00	1.00	.990	.986	.968	.964	.948	.944	.940	.927	.919	.911	.903	.891	.879	.865	.823	.808	.792
35	1.00	1.00	1.00	.992	.988	.970	.966	.952	.948	.944	.933	.925	.917	.909	.899	.887	.875	.833	.819	.802
36	1.00	1.00	1.00	.994	.990	.972	.968	.956	.952	.948	.940	.931	.923	.915	.907	.895	.883	.843	.829	.813
37	1.00	1.00	1.00	.996	.992	.974	.970	.960	.956	.952	.946	.938	.929	.921	.913	.903	.891	.853	.839	.823
38	1.00	1.00	1.00	.998	.994	.976	.972	.964	.960	.956	.952	.944	.935	.927	.919	.911	.899	.861	.849	.833
39	1.00	1.00	1.00	1.00	.996	.978	.974	.968	.964	.960	.956	.950	.942	.933	.925	.917	.907	.869	.859	.843
40	1.00	1.00	1.00	1.00	.998	.980	.976	.972	.968	.964	.960	.956	.948	.940	.931	.923	.915	.877	.867	.853

TOTAL OBSERVATIONS 496

TABLE 12. 2.a. P(W ≥ W\*) I CONSECUTIVE LAUNCH OPPORTUNITIES IN J PERIODS (W\* = 25 M/SEC).

BASED ON MAXIMUM WIND SPEEDS IN THE 10-15 KM LAYER OVER CAPE KENNEDY, FLORIDA.

PERIOD OF RECORD JANUARY 1956 - DECEMBER 1963.

CAPE KENNEDY, FLORIDA DECEMBER  
SPEEDS GREATER THAN OR EQUAL TO 25 MPS

P ( I SUCCESSES IN J PERIODS )

J	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
1	.881																			
2	.925	.839																		
3	.962	.881	.806																	
4	.976	.929	.847	.784																
5	.986	.948	.903	.823	.766															
6	.990	.968	.921	.883	.804	.748														
7	.992	.980	.948	.897	.873	.784	.732													
8	.994	.986	.966	.925	.883	.861	.768	.716												
9	.996	.988	.978	.950	.907	.873	.851	.750	.704											
10	.998	.990	.982	.970	.933	.893	.865	.835	.740	.692										
11	1.00	.992	.984	.978	.960	.917	.883	.851	.825	.730	.679									
12	1.00	.996	.986	.982	.970	.946	.907	.871	.841	.817	.718	.669								
13	1.00	.998	.990	.984	.976	.956	.938	.899	.861	.833	.804	.710	.659							
14	1.00	1.00	.994	.986	.978	.966	.948	.931	.889	.855	.817	.800	.702	.653						
15	1.00	1.00	1.00	.988	.980	.970	.960	.942	.921	.885	.837	.813	.796	.696	.647					
16	1.00	1.00	1.00	.996	.982	.972	.966	.956	.931	.917	.867	.833	.808	.792	.690	.641				
17	1.00	1.00	1.00	.998	.990	.974	.970	.962	.948	.927	.901	.861	.829	.804	.788	.683	.635			
18	1.00	1.00	1.00	1.00	.994	.980	.972	.968	.956	.944	.917	.891	.857	.825	.800	.784	.677	.629		
19	1.00	1.00	1.00	1.00	1.00	.982	.978	.970	.964	.954	.935	.907	.887	.853	.821	.796	.780	.669	.625	
20	1.00	1.00	1.00	1.00	1.00	.990	.980	.976	.966	.964	.948	.925	.901	.885	.849	.817	.792	.774	.663	.619
21	1.00	1.00	1.00	1.00	1.00	.994	.986	.978	.972	.966	.962	.940	.915	.899	.883	.845	.813	.786	.770	.655
22	1.00	1.00	1.00	1.00	1.00	.998	.988	.984	.974	.970	.964	.958	.929	.909	.899	.881	.841	.806	.782	.766
23	1.00	1.00	1.00	1.00	1.00	1.00	.992	.986	.980	.972	.966	.962	.950	.921	.909	.899	.879	.835	.802	.778
24	1.00	1.00	1.00	1.00	1.00	1.00	.996	.990	.982	.978	.968	.966	.956	.942	.919	.909	.899	.877	.829	.798
25	1.00	1.00	1.00	1.00	1.00	1.00	.998	.994	.986	.980	.974	.968	.964	.948	.940	.917	.909	.899	.875	.823
26	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.996	.990	.984	.976	.972	.968	.956	.948	.935	.917	.909	.899	.873
27	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.994	.986	.980	.974	.970	.962	.954	.944	.935	.917	.909	.899
28	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.990	.982	.978	.972	.968	.958	.948	.944	.935	.917	.909
29	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.998	.986	.980	.976	.972	.964	.952	.948	.944	.935	.917
30	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.996	.982	.978	.974	.970	.958	.952	.948	.944	.935
31	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.992	.980	.976	.974	.964	.958	.952	.948	.944
32	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.998	.990	.978	.976	.970	.962	.958	.952	.948
33	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.996	.988	.978	.972	.970	.962	.958	.952
34	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.994	.986	.974	.972	.970	.962	.958
35	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.992	.980	.974	.972	.970	.962
36	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.988	.976	.974	.972	.970
37	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.982	.976	.974	.972
38	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.995	.980	.976	.974
39	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.998	.994	.978	.976
40	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.996	.992	.978

TOTAL OBSERVATIONS 496

TABLE 12. 2, b. P(W ≥ W\*) I LAUNCH OPPORTUNITIES IN J PERIODS (W\* = 25 M/SEC).  
BASED ON MAXIMUM WIND SPEEDS IN THE 10-15 KM LAYER OVER CAPE KENNEDY, FLORIDA.  
PERIOD OF RECORD JANUARY 1956 - DECEMBER 1963.

CAPE KENNEDY, FLORIDA DECEMBER

SPEEDS GREATER THAN OR EQUAL TO 030 MPS

PC ( I CONSECUTIVE SUCCESSES IN J PERIODS )

J	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
1	.794																			
2	.829	.762																		
3	.857	.792	.734																	
4	.877	.823	.762	.710																
5	.895	.849	.790	.734	.690															
6	.911	.869	.819	.758	.714	.669														
7	.919	.889	.841	.782	.738	.694	.647													
8	.927	.905	.859	.804	.762	.718	.669	.629												
9	.931	.913	.877	.825	.784	.742	.692	.651	.611											
10	.935	.921	.891	.843	.806	.764	.714	.673	.633	.593										
11	.940	.925	.899	.861	.827	.786	.734	.696	.655	.613	.577									
12	.944	.929	.907	.877	.845	.808	.754	.716	.677	.633	.597	.560								
13	.948	.933	.911	.889	.863	.829	.774	.736	.698	.653	.617	.581	.548							
14	.952	.938	.915	.899	.879	.847	.796	.756	.718	.671	.637	.601	.569	.536						
15	.956	.942	.919	.907	.889	.865	.815	.778	.738	.690	.655	.621	.589	.556	.524					
16	.960	.946	.923	.915	.899	.879	.831	.800	.760	.708	.673	.639	.609	.577	.544	.512				
17	.964	.950	.927	.919	.907	.889	.847	.819	.782	.728	.692	.657	.627	.597	.565	.528	.504			
18	.968	.954	.931	.923	.915	.899	.861	.835	.804	.748	.712	.675	.645	.615	.585	.544	.520	.494		
19	.972	.958	.935	.927	.919	.907	.871	.851	.823	.768	.732	.696	.663	.633	.603	.560	.536	.510	.484	
20	.976	.962	.940	.931	.923	.915	.881	.865	.839	.788	.752	.716	.683	.651	.621	.575	.552	.526	.500	.474
21	.978	.966	.944	.935	.927	.919	.889	.875	.855	.804	.772	.736	.704	.671	.639	.589	.567	.542	.516	.490
22	.980	.970	.948	.940	.931	.923	.897	.885	.869	.819	.792	.756	.724	.692	.659	.603	.581	.556	.532	.506
23	.982	.972	.952	.944	.935	.927	.901	.893	.879	.833	.808	.776	.744	.712	.679	.619	.595	.571	.546	.522
24	.984	.974	.956	.948	.940	.931	.905	.901	.889	.845	.823	.796	.764	.732	.700	.635	.611	.585	.560	.536
25	.986	.976	.958	.952	.944	.935	.909	.905	.897	.857	.837	.813	.784	.752	.720	.651	.627	.601	.575	.550
26	.988	.978	.960	.956	.948	.940	.913	.900	.905	.869	.849	.827	.804	.772	.740	.667	.643	.617	.591	.565
27	.990	.980	.962	.958	.952	.944	.917	.913	.909	.879	.861	.841	.821	.792	.760	.683	.659	.633	.607	.581
28	.992	.982	.964	.960	.956	.948	.921	.917	.913	.884	.873	.853	.835	.813	.780	.700	.675	.649	.623	.597
29	.994	.984	.966	.962	.958	.952	.925	.921	.917	.895	.883	.865	.847	.829	.800	.716	.692	.665	.639	.613
30	.996	.986	.968	.964	.960	.956	.929	.925	.921	.901	.893	.877	.859	.841	.821	.732	.708	.681	.655	.629
31	.998	.988	.970	.966	.962	.958	.933	.929	.925	.907	.899	.887	.871	.853	.835	.748	.724	.698	.671	.645
32	1.00	.990	.972	.968	.964	.960	.938	.933	.929	.913	.905	.897	.883	.865	.847	.764	.740	.714	.688	.661
33	1.00	.992	.974	.970	.966	.962	.942	.938	.933	.919	.911	.903	.893	.877	.859	.778	.756	.730	.704	.677
34	1.00	.994	.976	.972	.968	.964	.946	.942	.938	.925	.917	.909	.901	.889	.871	.790	.772	.746	.720	.694
35	1.00	.996	.978	.974	.970	.966	.950	.946	.942	.931	.923	.915	.907	.897	.883	.802	.786	.762	.736	.710
36	1.00	.998	.980	.976	.972	.968	.954	.950	.946	.938	.929	.921	.913	.905	.893	.815	.798	.778	.752	.726
37	1.00	1.00	.982	.978	.974	.970	.958	.954	.950	.944	.935	.927	.919	.911	.901	.825	.810	.792	.768	.742
38	1.00	1.00	.984	.980	.976	.972	.962	.958	.954	.950	.942	.933	.925	.917	.909	.835	.821	.804	.784	.758
39	1.00	1.00	.986	.982	.978	.974	.966	.962	.958	.954	.948	.940	.931	.923	.915	.843	.831	.815	.798	.774
40	1.00	1.00	.988	.984	.980	.976	.970	.966	.962	.958	.954	.946	.938	.929	.921	.851	.841	.825	.808	.790

TOTAL OBSERVATIONS 496

TABLE 12. 3.a. P(W ≥ W\*) I CONSECUTIVE LAUNCH OPPORTUNITIES IN J PERIODS (W\* = 30 M/SEC).

BASED ON MAXIMUM WIND SPEEDS IN THE 10-15 KM LAYER OVER CAPE KENNEDY, FLORIDA.

PERIOD OF RECORD JANUARY 1956 - DECEMBER 1963.

CAPE KENNEDY, FLORIDA DECEMBER  
SPEEDS GREATER THAN OR EQUAL TO 030 MPS

P ( I SUCCESSES IN J PERIODS )

J	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
1	.794																			
2	.829	.762																		
3	.857	.798	.734																	
4	.877	.833	.772	.710																
5	.895	.855	.808	.748	.690															
6	.911	.875	.833	.786	.728	.669														
7	.919	.899	.855	.813	.766	.710	.647													
8	.927	.907	.887	.835	.794	.750	.690	.629												
9	.931	.919	.897	.871	.821	.778	.730	.675	.611											
10	.935	.923	.915	.881	.863	.806	.756	.718	.661	.593										
11	.940	.927	.919	.901	.875	.855	.784	.744	.706	.645	.577									
12	.944	.931	.923	.905	.897	.869	.837	.774	.732	.690	.633	.560								
13	.948	.935	.927	.909	.901	.893	.851	.833	.764	.714	.679	.621	.548							
14	.952	.940	.931	.913	.905	.897	.875	.849	.829	.746	.704	.669	.613	.536						
15	.956	.944	.935	.917	.909	.901	.879	.873	.847	.815	.738	.694	.663	.605	.524					
16	.960	.948	.940	.921	.913	.905	.883	.877	.871	.837	.808	.730	.688	.657	.597	.512				
17	.964	.952	.944	.925	.917	.909	.887	.881	.875	.865	.833	.802	.724	.681	.651	.585	.504			
18	.968	.956	.948	.929	.921	.913	.891	.885	.879	.871	.863	.829	.796	.718	.675	.639	.579	.494		
19	.972	.960	.952	.933	.925	.917	.895	.889	.883	.877	.869	.861	.825	.790	.712	.663	.633	.571	.484	
20	.976	.964	.956	.938	.929	.921	.899	.893	.887	.883	.875	.867	.859	.821	.784	.698	.657	.627	.563	.474
21	.978	.970	.960	.942	.933	.925	.903	.897	.891	.887	.883	.873	.865	.857	.817	.772	.692	.649	.621	.554
22	.980	.972	.968	.946	.938	.929	.907	.901	.895	.891	.887	.883	.871	.863	.855	.806	.766	.683	.641	.615
23	.982	.974	.970	.956	.942	.933	.911	.905	.899	.895	.891	.887	.883	.869	.861	.849	.800	.760	.675	.633
24	.984	.976	.972	.958	.954	.938	.915	.909	.903	.899	.895	.891	.887	.883	.867	.857	.845	.794	.752	.665
25	.986	.978	.974	.960	.956	.952	.919	.913	.907	.903	.899	.895	.891	.887	.883	.865	.853	.841	.786	.742
26	.988	.980	.976	.962	.958	.954	.935	.917	.911	.907	.903	.899	.895	.891	.887	.883	.863	.849	.837	.778
27	.990	.982	.978	.964	.960	.956	.940	.933	.915	.911	.907	.903	.899	.895	.891	.887	.883	.861	.845	.831
28	.992	.984	.980	.966	.962	.958	.944	.938	.931	.915	.911	.907	.903	.899	.895	.891	.887	.883	.859	.839
29	.994	.986	.982	.968	.964	.960	.948	.942	.935	.931	.915	.911	.907	.903	.899	.895	.891	.887	.883	.857
30	.996	.988	.984	.970	.966	.962	.952	.946	.940	.935	.931	.915	.911	.907	.903	.899	.895	.891	.887	.883
31	.998	.990	.986	.972	.968	.964	.956	.950	.944	.940	.935	.931	.915	.911	.907	.903	.899	.895	.891	.887
32	1.00	.992	.988	.974	.970	.966	.960	.954	.948	.944	.940	.935	.931	.915	.911	.907	.903	.899	.895	.891
33	1.00	.996	.990	.976	.972	.968	.964	.958	.952	.948	.944	.940	.935	.931	.915	.911	.907	.903	.899	.895
34	1.00	.998	.994	.978	.974	.970	.966	.964	.956	.952	.948	.944	.940	.935	.931	.915	.911	.907	.903	.899
35	1.00	1.00	.996	.982	.976	.972	.968	.966	.964	.956	.952	.948	.944	.940	.935	.931	.915	.911	.907	.903
36	1.00	1.00	1.00	.984	.980	.974	.970	.968	.966	.964	.956	.952	.948	.944	.940	.935	.931	.915	.911	.907
37	1.00	1.00	1.00	.990	.982	.978	.972	.970	.968	.966	.964	.956	.952	.948	.944	.940	.935	.931	.915	.911
38	1.00	1.00	1.00	.992	.988	.980	.976	.972	.970	.968	.966	.964	.956	.952	.948	.944	.940	.935	.931	.915
39	1.00	1.00	1.00	.994	.990	.986	.978	.974	.972	.970	.968	.966	.964	.956	.952	.948	.944	.940	.935	.931
40	1.00	1.00	1.00	.996	.992	.988	.984	.976	.974	.972	.970	.968	.966	.964	.956	.952	.948	.944	.940	.935

TOTAL OBSERVATIONS 496

TABLE 12, 3, b, P(W ≥ W<sub>0</sub>) I LAUNCH OPPORTUNITIES IN J PERIODS (W<sub>0</sub> = 30 M/SEC).  
BASED ON MAXIMUM WIND SPEEDS IN THE 10-15 KM LAYER OVER CAPE KENNEDY, FLORIDA.  
PERIOD OF RECORD JANUARY 1956 - DECEMBER 1963.



CAPE KENNEDY, FLORIDA DECEMBER

SPEEDS GREATER THAN OR EQUAL TO 035 MPS

PC ( I CONSECUTIVE SUCCESSES IN J PERIODS )

J	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
1	.698																			
2	.752	.649																		
3	.786	.694	.613																	
4	.810	.738	.655	.579																
5	.831	.766	.698	.615	.548															
6	.849	.790	.736	.651	.583	.520														
7	.865	.810	.764	.685	.617	.554	.490													
8	.879	.827	.788	.720	.649	.589	.520	.466												
9	.889	.839	.808	.746	.681	.621	.550	.494	.444											
10	.897	.851	.823	.772	.714	.653	.581	.522	.470	.423										
11	.903	.861	.835	.792	.740	.685	.611	.550	.496	.448	.407									
12	.907	.871	.847	.810	.766	.718	.641	.579	.522	.472	.431	.391								
13	.911	.877	.857	.827	.786	.744	.671	.607	.548	.496	.456	.415	.377							
14	.915	.883	.867	.841	.804	.770	.702	.635	.575	.520	.480	.440	.399	.365						
15	.919	.889	.873	.853	.823	.790	.726	.663	.601	.544	.504	.464	.421	.385	.355					
16	.923	.895	.879	.865	.839	.808	.750	.690	.627	.569	.528	.488	.444	.405	.373	.347				
17	.927	.899	.885	.871	.853	.827	.770	.712	.653	.593	.552	.512	.466	.425	.391	.365	.339			
18	.931	.903	.891	.877	.867	.843	.788	.734	.679	.617	.577	.536	.488	.446	.409	.383	.355	.331		
19	.935	.907	.897	.883	.875	.857	.804	.752	.702	.641	.601	.560	.510	.466	.427	.401	.371	.347	.323	
20	.940	.911	.903	.889	.881	.871	.819	.766	.724	.665	.625	.585	.532	.486	.446	.419	.387	.363	.339	.315
21	.944	.915	.909	.895	.887	.879	.833	.782	.740	.685	.649	.609	.554	.506	.464	.438	.403	.379	.355	.331
22	.948	.919	.913	.901	.893	.885	.845	.796	.758	.704	.671	.633	.577	.526	.482	.456	.419	.395	.371	.347
23	.952	.923	.917	.907	.899	.891	.853	.810	.778	.720	.690	.655	.599	.546	.500	.474	.435	.411	.387	.363
24	.956	.927	.921	.913	.905	.897	.861	.823	.794	.738	.710	.675	.619	.567	.518	.492	.452	.427	.403	.379
25	.960	.931	.925	.919	.911	.903	.869	.831	.810	.756	.728	.696	.637	.585	.536	.510	.468	.444	.419	.395
26	.964	.935	.929	.923	.917	.909	.877	.839	.823	.772	.746	.718	.657	.601	.552	.528	.484	.460	.435	.411
27	.968	.940	.933	.927	.921	.915	.885	.847	.835	.788	.764	.736	.677	.619	.567	.544	.500	.476	.452	.427
28	.970	.944	.938	.931	.925	.919	.893	.855	.845	.802	.780	.754	.698	.639	.585	.558	.516	.492	.468	.444
29	.972	.948	.942	.935	.929	.923	.899	.863	.853	.813	.796	.772	.714	.657	.601	.575	.530	.508	.484	.460
30	.974	.952	.946	.940	.933	.927	.905	.869	.861	.823	.810	.788	.730	.675	.619	.593	.546	.522	.500	.476
31	.976	.956	.950	.944	.938	.931	.911	.875	.867	.833	.821	.804	.746	.690	.635	.611	.565	.538	.514	.492
32	.978	.960	.954	.948	.942	.935	.917	.881	.873	.841	.831	.819	.762	.704	.651	.629	.583	.556	.530	.506
33	.980	.964	.958	.952	.946	.940	.923	.887	.879	.849	.839	.829	.778	.718	.665	.645	.601	.575	.548	.522
34	.982	.968	.962	.956	.950	.944	.929	.893	.885	.857	.847	.837	.792	.732	.679	.661	.619	.593	.567	.540
35	.984	.972	.966	.960	.954	.948	.935	.899	.891	.865	.855	.845	.802	.746	.694	.675	.637	.611	.585	.558
36	.986	.976	.970	.964	.958	.952	.942	.905	.897	.873	.863	.853	.813	.756	.708	.690	.655	.629	.603	.577
37	.988	.980	.974	.968	.962	.956	.948	.911	.903	.881	.871	.861	.823	.764	.720	.704	.671	.647	.621	.595
38	.990	.984	.978	.972	.966	.960	.954	.917	.909	.889	.879	.869	.833	.772	.732	.716	.688	.665	.639	.613
39	.992	.988	.982	.976	.970	.964	.958	.923	.915	.897	.887	.877	.843	.780	.742	.728	.702	.681	.657	.631
40	.994	.990	.986	.980	.974	.968	.962	.929	.921	.905	.895	.885	.853	.788	.752	.740	.716	.696	.675	.649
TOTAL OBSERVATIONS	496																			

TABLE 12. 4.a. P(W ≥ W\*) I CONSECUTIVE LAUNCH OPPORTUNITIES IN J PERIODS (W\* = 35 M/SEC).

BASED ON MAXIMUM WIND SPEEDS IN THE 10-15 KM LAYER OVER CAPE KENNEDY, FLORIDA.

PERIOD OF RECORD JANUARY 1956 - DECEMBER 1963.

CAPE KENNEDY . FLORIDA DECEMBER  
 SPEEDS GREATER THAN OR EQUAL TO 035 MPS

P ( I SUCCESSES IN J PERIODS )

	I																			
J	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
1	.698																			
2	.752	.649																		
3	.786	.714	.613																	
4	.810	.754	.685	.579																
5	.831	.784	.728	.655	.548															
6	.849	.804	.764	.700	.629	.520														
7	.865	.823	.786	.746	.673	.605	.490													
8	.879	.837	.806	.770	.730	.647	.577	.466												
9	.889	.853	.821	.794	.754	.712	.623	.550	.444											
10	.897	.865	.839	.810	.780	.736	.698	.597	.530	.423										
11	.903	.875	.853	.831	.800	.762	.724	.677	.581	.506	.407									
12	.907	.879	.869	.845	.823	.786	.750	.704	.669	.558	.486	.391								
13	.911	.883	.875	.863	.839	.810	.778	.728	.696	.657	.536	.468	.377							
14	.915	.887	.881	.871	.857	.829	.804	.758	.720	.688	.641	.516	.450	.365						
15	.919	.891	.885	.879	.865	.849	.825	.784	.754	.712	.677	.625	.496	.433	.355					
16	.923	.895	.889	.883	.875	.859	.845	.808	.778	.750	.702	.665	.609	.478	.419	.347				
17	.927	.899	.893	.887	.881	.871	.853	.835	.800	.774	.744	.688	.657	.595	.456	.413	.339			
18	.931	.903	.897	.891	.885	.879	.865	.843	.831	.794	.770	.730	.681	.647	.575	.442	.405	.331		
19	.935	.907	.901	.895	.889	.883	.877	.855	.839	.829	.788	.756	.726	.673	.631	.563	.429	.395	.323	
20	.940	.911	.905	.899	.893	.887	.881	.869	.851	.837	.827	.772	.752	.722	.659	.621	.548	.419	.385	.315
21	.944	.915	.909	.903	.897	.891	.885	.877	.865	.849	.835	.815	.766	.748	.714	.647	.607	.538	.409	.375
22	.948	.919	.913	.907	.901	.895	.889	.885	.873	.863	.847	.825	.810	.760	.742	.706	.635	.595	.528	.399
23	.952	.923	.917	.911	.905	.899	.893	.889	.883	.871	.861	.839	.821	.806	.754	.736	.694	.625	.581	.518
24	.956	.927	.921	.915	.909	.903	.897	.893	.889	.881	.869	.855	.835	.817	.800	.750	.728	.679	.617	.565
25	.960	.931	.925	.919	.913	.907	.901	.897	.893	.889	.879	.865	.851	.831	.810	.796	.746	.714	.669	.605
26	.964	.935	.929	.923	.917	.911	.905	.901	.897	.893	.889	.877	.861	.847	.825	.806	.792	.738	.704	.657
27	.968	.940	.933	.927	.921	.915	.909	.905	.901	.897	.893	.889	.875	.857	.841	.821	.802	.786	.730	.692
28	.970	.946	.938	.931	.925	.919	.913	.909	.905	.901	.897	.893	.889	.873	.851	.837	.817	.798	.778	.720
29	.972	.950	.944	.935	.929	.923	.917	.913	.909	.905	.901	.897	.893	.889	.869	.847	.833	.813	.790	.772
30	.974	.954	.948	.942	.933	.927	.921	.917	.913	.909	.905	.901	.897	.893	.887	.867	.843	.829	.802	.786
31	.976	.956	.952	.946	.940	.931	.925	.921	.917	.913	.909	.905	.901	.897	.893	.885	.865	.839	.817	.798
32	.978	.962	.956	.950	.944	.938	.929	.925	.921	.917	.913	.909	.905	.901	.897	.893	.883	.863	.827	.813
33	.980	.966	.960	.954	.948	.942	.935	.929	.925	.921	.917	.913	.909	.905	.901	.897	.893	.881	.851	.825
34	.982	.970	.964	.958	.952	.946	.940	.935	.929	.925	.921	.917	.913	.909	.905	.901	.897	.893	.869	.849
35	.984	.974	.968	.962	.956	.950	.944	.940	.935	.929	.925	.921	.917	.913	.909	.905	.901	.897	.883	.867
36	.986	.978	.972	.966	.960	.954	.948	.944	.940	.935	.929	.925	.921	.917	.913	.909	.905	.901	.899	.881
37	.988	.982	.976	.970	.964	.958	.952	.948	.944	.940	.935	.929	.925	.921	.917	.913	.909	.905	.895	.887
38	.990	.986	.980	.974	.968	.962	.956	.952	.948	.944	.940	.935	.929	.925	.921	.917	.913	.909	.901	.893
39	.992	.988	.984	.978	.972	.966	.960	.956	.952	.948	.944	.940	.935	.929	.925	.921	.917	.913	.907	.899
40	.994	.990	.986	.982	.976	.970	.964	.960	.956	.952	.948	.944	.940	.935	.929	.925	.921	.917	.913	.905

TOTAL OBSERVATIONS 496

TABLE 12. 4. b. P(W ≥ W\*) I LAUNCH OPPORTUNITIES IN J PERIODS (W\* = 35 M/SEC).  
 BASED ON MAXIMUM WIND SPEEDS IN THE 10-15 KM LAYER OVER CAPE KENNEDY, FLORIDA.  
 PERIOD OF RECORD JANUARY 1956 - DECEMBER 1963.

CAPE KENNEDY, FLORIDA DECEMBER

SPEEDS GREATER THAN OR EQUAL TO 040 MPS

PC ( I CONSECUTIVE SUCCESSES IN J PERIODS )

J	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
1	.597																			
2	.675	.524																		
3	.730	.589	.466																	
4	.760	.655	.522	.413																
5	.786	.700	.581	.456	.375															
6	.806	.730	.637	.500	.413	.339														
7	.823	.756	.679	.544	.452	.375	.308													
8	.835	.778	.712	.589	.490	.411	.339	.282												
9	.847	.796	.742	.623	.528	.448	.369	.308	.260											
10	.859	.813	.766	.653	.567	.484	.399	.335	.284	.238										
11	.869	.829	.786	.679	.599	.520	.429	.361	.308	.260	.220									
12	.877	.845	.804	.704	.625	.556	.460	.387	.333	.282	.242	.202								
13	.883	.859	.823	.726	.651	.585	.490	.413	.357	.304	.264	.220	.190							
14	.889	.867	.841	.748	.677	.611	.518	.440	.381	.327	.286	.238	.206	.179						
15	.893	.875	.855	.768	.704	.635	.544	.464	.405	.349	.308	.256	.222	.194	.171					
16	.897	.883	.865	.786	.728	.661	.567	.490	.427	.371	.331	.274	.238	.208	.185	.163				
17	.901	.891	.875	.800	.748	.688	.589	.516	.452	.391	.353	.292	.254	.222	.200	.177	.155			
18	.905	.897	.885	.810	.766	.712	.611	.542	.476	.413	.373	.310	.270	.236	.214	.192	.169	.147		
19	.909	.903	.893	.821	.782	.730	.633	.567	.502	.435	.395	.327	.286	.250	.228	.206	.183	.161	.139	
20	.913	.907	.899	.831	.794	.748	.651	.591	.526	.460	.417	.365	.300	.264	.242	.220	.198	.175	.153	.131
21	.917	.911	.905	.839	.806	.766	.667	.613	.548	.484	.442	.363	.317	.276	.256	.234	.212	.190	.167	.145
22	.921	.915	.909	.847	.819	.778	.685	.633	.569	.508	.466	.383	.333	.290	.268	.248	.226	.204	.181	.159
23	.925	.919	.913	.855	.829	.790	.704	.653	.589	.528	.490	.403	.351	.304	.292	.260	.240	.218	.196	.173
24	.929	.923	.917	.863	.839	.802	.718	.673	.609	.548	.512	.423	.369	.321	.296	.274	.252	.232	.210	.188
25	.933	.927	.921	.871	.849	.813	.732	.694	.627	.571	.532	.442	.387	.337	.313	.288	.266	.244	.224	.202
26	.938	.931	.925	.877	.859	.823	.744	.710	.645	.591	.554	.460	.403	.353	.329	.304	.280	.258	.236	.216
27	.942	.935	.929	.883	.867	.833	.758	.726	.663	.609	.577	.478	.419	.367	.345	.321	.296	.272	.250	.228
28	.946	.940	.933	.889	.875	.841	.770	.742	.677	.627	.597	.496	.438	.381	.359	.337	.313	.288	.264	.242
29	.950	.944	.938	.895	.883	.849	.780	.754	.692	.644	.615	.514	.456	.397	.373	.351	.329	.304	.280	.256
30	.954	.948	.942	.901	.891	.857	.790	.768	.706	.659	.633	.530	.474	.413	.389	.365	.343	.321	.296	.272
31	.958	.952	.946	.907	.897	.865	.800	.780	.718	.673	.651	.544	.492	.429	.405	.381	.357	.335	.313	.288
32	.962	.956	.950	.913	.903	.873	.810	.792	.730	.684	.665	.563	.508	.446	.421	.397	.373	.349	.327	.304
33	.966	.960	.954	.919	.909	.881	.821	.804	.742	.698	.677	.579	.524	.462	.438	.413	.389	.365	.341	.319
34	.970	.964	.958	.925	.915	.889	.831	.815	.754	.710	.690	.589	.540	.476	.454	.429	.405	.381	.357	.333
35	.974	.968	.962	.931	.921	.897	.841	.825	.766	.722	.702	.599	.554	.490	.470	.446	.421	.397	.373	.349
36	.978	.972	.966	.938	.927	.905	.851	.835	.776	.734	.714	.609	.565	.502	.484	.462	.438	.413	.389	.365
37	.982	.976	.970	.944	.933	.913	.861	.845	.786	.744	.726	.619	.575	.514	.496	.478	.454	.429	.405	.381
38	.986	.980	.974	.950	.940	.921	.871	.857	.796	.758	.738	.629	.585	.524	.508	.490	.470	.446	.421	.397
39	.988	.984	.978	.956	.946	.929	.881	.867	.808	.770	.750	.639	.595	.534	.520	.502	.484	.462	.438	.413
40	.990	.986	.982	.962	.952	.938	.891	.877	.821	.784	.762	.649	.605	.544	.530	.514	.496	.476	.454	.429

TOTAL OBSERVATIONS 496

TABLE 14. 5.a.  $P(V \geq W) |$  CONSECUTIVE LAUNCH OPPORTUNITIES IN J PERIODS ( $W = 40$  M/SEC).

BASED ON MAXIMUM WIND SPEEDS IN THE 10-15 KM LAYER OVER CAPE KENNEDY, FLORIDA.

PERIOD OF RECORD JANUARY 1956 - DECEMBER 1963.

CAPE KENNEDY, FLORIDA DECEMBER  
SPEEDS GREATER THAN OR EQUAL TO 040 MPS

P ( I SUCCESSES IN J PERIODS )

	I																			
J	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
1	.597																			
2	.675	.524																		
3	.730	.615	.466																	
4	.760	.688	.565	.413																
5	.786	.724	.647	.510	.375															
6	.806	.758	.696	.591	.474	.339														
7	.823	.782	.734	.651	.550	.438	.308													
8	.835	.804	.758	.704	.609	.520	.399	.282												
9	.847	.817	.786	.730	.663	.587	.480	.369	.260											
10	.859	.829	.802	.760	.696	.643	.552	.444	.345	.238										
11	.869	.843	.819	.778	.726	.683	.609	.526	.413	.321	.220									
12	.877	.855	.835	.800	.744	.714	.659	.583	.496	.387	.302	.202								
13	.883	.865	.849	.819	.772	.732	.690	.645	.548	.474	.361	.282	.190							
14	.889	.873	.859	.837	.790	.764	.706	.681	.617	.524	.444	.339	.266	.179						
15	.893	.883	.867	.849	.808	.784	.740	.698	.661	.595	.488	.423	.319	.252	.171					
16	.897	.889	.879	.859	.819	.804	.762	.734	.688	.643	.554	.462	.407	.300	.242	.163				
17	.901	.895	.885	.875	.827	.815	.784	.758	.726	.677	.611	.518	.444	.393	.298	.230	.155			
18	.905	.899	.893	.881	.845	.823	.796	.780	.752	.718	.655	.581	.486	.429	.385	.272	.220	.147		
19	.909	.903	.897	.891	.855	.839	.806	.792	.774	.748	.702	.627	.546	.466	.421	.371	.260	.210	.139	
20	.913	.907	.901	.895	.871	.849	.821	.804	.786	.770	.740	.679	.591	.522	.454	.407	.361	.248	.200	.131
21	.917	.911	.905	.899	.879	.867	.833	.815	.800	.782	.762	.730	.645	.567	.506	.435	.397	.351	.236	.190
22	.921	.915	.909	.903	.887	.875	.855	.823	.813	.796	.774	.758	.704	.623	.546	.484	.423	.387	.341	.224
23	.925	.919	.913	.907	.893	.883	.865	.843	.821	.810	.798	.770	.744	.685	.599	.524	.466	.411	.379	.329
24	.929	.923	.917	.911	.899	.889	.875	.853	.839	.819	.804	.784	.760	.734	.665	.569	.504	.440	.403	.365
25	.933	.927	.921	.915	.905	.895	.883	.863	.849	.835	.815	.800	.778	.750	.720	.635	.542	.488	.440	.389
26	.938	.931	.925	.919	.911	.901	.891	.871	.859	.845	.831	.810	.796	.770	.736	.702	.605	.522	.474	.425
27	.942	.935	.929	.923	.917	.907	.897	.881	.867	.855	.839	.829	.806	.792	.758	.718	.677	.587	.500	.440
28	.946	.940	.933	.927	.921	.915	.903	.889	.877	.863	.847	.837	.827	.802	.784	.742	.696	.663	.560	.486
29	.950	.944	.938	.931	.925	.919	.913	.897	.885	.873	.853	.845	.835	.825	.796	.772	.720	.683	.643	.542
30	.954	.948	.942	.935	.929	.923	.917	.909	.895	.881	.861	.851	.843	.833	.823	.788	.748	.710	.665	.623
31	.958	.952	.946	.940	.933	.927	.921	.915	.907	.893	.867	.859	.849	.841	.831	.819	.768	.736	.694	.651
32	.962	.956	.950	.944	.938	.931	.925	.921	.913	.905	.879	.865	.857	.847	.839	.827	.804	.756	.724	.677
33	.966	.960	.954	.948	.942	.935	.929	.925	.921	.911	.891	.877	.863	.855	.845	.835	.817	.792	.748	.708
34	.970	.964	.958	.952	.946	.940	.933	.929	.925	.921	.897	.889	.875	.861	.853	.841	.827	.808	.782	.734
35	.974	.968	.962	.956	.950	.944	.938	.933	.929	.925	.909	.895	.887	.873	.859	.849	.835	.821	.800	.770
36	.978	.972	.966	.960	.954	.948	.942	.938	.933	.929	.915	.907	.893	.885	.871	.855	.847	.829	.815	.788
37	.982	.976	.970	.964	.958	.952	.946	.942	.938	.933	.921	.913	.905	.891	.883	.867	.853	.845	.823	.804
38	.986	.980	.974	.968	.962	.956	.950	.946	.942	.938	.927	.919	.911	.903	.889	.879	.865	.851	.841	.815
39	.988	.984	.978	.972	.966	.960	.954	.950	.946	.942	.933	.925	.917	.909	.901	.887	.875	.863	.849	.833
40	.990	.986	.982	.976	.970	.964	.958	.954	.950	.946	.940	.931	.923	.915	.907	.899	.885	.871	.861	.845

TOTAL OBSERVATIONS 496

TABLE 12. 5, b. P(W ≥ W<sub>0</sub>) I LAUNCH OPPORTUNITIES IN J PERIODS (W<sub>0</sub> = 40 M/SEC).  
BASED ON MAXIMUM WIND SPEEDS IN THE 10-15 KM LAYER OVER CAPE KENNEDY, FLORIDA.  
PERIOD OF RECORD JANUARY 1956 - DECEMBER 1963.

CAPE KENNEDY, FLORIDA DECEMBER

SPEEDS GREATER THAN OR EQUAL TO 045 MPS

PC ( I CONSECUTIVE SUCCESSES IN J PERIODS )

	I																			
J	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
1	.462																			
2	.538	.391																		
3	.591	.454	.333																	
4	.633	.516	.387	.284																
5	.665	.565	.442	.335	.242															
6	.692	.605	.496	.385	.282	.204														
7	.718	.635	.538	.435	.325	.234	.177													
8	.736	.661	.575	.486	.357	.266	.202	.157												
9	.754	.683	.603	.524	.409	.298	.228	.177	.139											
10	.772	.704	.625	.556	.452	.331	.254	.200	.155	.125										
11	.790	.724	.645	.583	.484	.363	.280	.222	.173	.139	.111									
12	.806	.744	.665	.607	.512	.395	.306	.244	.192	.155	.125	.097								
13	.823	.764	.685	.629	.540	.421	.335	.266	.210	.171	.141	.111	.083							
14	.837	.784	.708	.651	.565	.450	.361	.290	.228	.188	.157	.127	.091	.075						
15	.849	.804	.728	.673	.589	.476	.385	.313	.248	.204	.173	.143	.101	.083	.067					
16	.859	.821	.746	.694	.611	.498	.409	.337	.265	.222	.190	.159	.111	.083	.075	.058				
17	.869	.835	.762	.714	.631	.520	.433	.359	.286	.238	.208	.175	.121	.103	.085	.067	.050			
18	.879	.847	.778	.730	.649	.540	.456	.381	.306	.256	.224	.194	.131	.113	.095	.077	.058	.042		
19	.887	.859	.792	.746	.665	.558	.476	.403	.325	.274	.242	.210	.143	.123	.105	.087	.069	.050	.034	
20	.895	.871	.804	.762	.679	.575	.496	.421	.343	.292	.260	.228	.153	.135	.115	.097	.079	.060	.042	.024
21	.901	.881	.817	.776	.694	.591	.514	.440	.361	.308	.278	.246	.165	.145	.127	.107	.087	.071	.052	.034
22	.907	.891	.829	.790	.708	.605	.530	.45	.377	.325	.298	.264	.177	.157	.137	.119	.099	.081	.063	.044
23	.913	.901	.839	.806	.720	.619	.546	.474	.393	.341	.315	.282	.190	.169	.149	.129	.111	.091	.073	.054
24	.919	.909	.849	.823	.734	.633	.560	.488	.407	.355	.331	.300	.202	.181	.161	.141	.121	.103	.083	.065
25	.925	.915	.859	.837	.748	.647	.575	.502	.423	.369	.347	.317	.214	.194	.173	.153	.133	.113	.095	.075
26	.931	.921	.869	.851	.762	.663	.589	.514	.438	.383	.361	.333	.228	.206	.185	.165	.145	.125	.105	.087
27	.938	.927	.877	.861	.774	.675	.605	.526	.452	.397	.375	.349	.236	.218	.195	.174	.157	.137	.117	.097
28	.942	.933	.885	.871	.784	.688	.621	.540	.464	.411	.389	.363	.246	.230	.207	.190	.169	.149	.129	.109
29	.946	.940	.893	.879	.794	.698	.635	.554	.478	.425	.403	.377	.256	.240	.222	.202	.181	.161	.141	.121
30	.950	.944	.901	.887	.804	.708	.647	.569	.492	.440	.417	.391	.264	.250	.234	.214	.194	.173	.153	.133
31	.954	.948	.909	.895	.813	.716	.659	.579	.506	.454	.433	.405	.276	.260	.244	.226	.206	.185	.165	.145
32	.958	.952	.915	.903	.821	.724	.671	.589	.518	.468	.448	.421	.286	.270	.254	.238	.218	.198	.177	.157
33	.962	.956	.921	.911	.829	.732	.681	.599	.528	.480	.462	.438	.298	.280	.264	.248	.230	.210	.190	.169
34	.966	.960	.927	.917	.837	.740	.692	.609	.538	.492	.474	.452	.310	.292	.274	.258	.242	.222	.202	.181
35	.970	.964	.933	.923	.845	.748	.702	.617	.548	.502	.486	.464	.323	.304	.286	.268	.252	.234	.214	.194
36	.974	.968	.940	.929	.853	.758	.712	.625	.558	.512	.498	.476	.333	.317	.298	.280	.262	.244	.226	.206
37	.978	.972	.946	.935	.861	.768	.722	.633	.569	.522	.508	.488	.343	.327	.310	.292	.274	.256	.238	.218
38	.982	.976	.952	.942	.869	.778	.732	.641	.579	.532	.518	.500	.353	.337	.321	.304	.286	.268	.250	.230
39	.986	.980	.958	.948	.877	.788	.742	.649	.589	.542	.528	.510	.363	.347	.331	.315	.298	.276	.260	.242
40	.990	.984	.964	.954	.887	.798	.752	.657	.599	.552	.538	.520	.373	.357	.341	.325	.308	.288	.270	.254

TOTAL OBSERVATIONS 496

TABLE 12. 6.a. P(N ≥ M) I CONSECUTIVE LAUNCH OPPORTUNITIES IN J PERIODS (M = 45 M/SEC).  
 BASED ON MAXIMUM WIND SPEEDS IN THE 10-15 KM LAYER OVER CAPE KENNEDY, FLORIDA.  
 PERIOD OF RECORD JANUARY 1956 - DECEMBER 1963.

CAPE KENNEDY, FLORIDA DECEMBER

SPEEDS GREATER THAN OR EQUAL TO 045 MPS

P ( I SUCCESSES IN J PERIODS )

I

J	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
1	.462																			
2	.538	.391																		
3	.591	.478	.333																	
4	.633	.536	.425	.284																
5	.665	.585	.488	.383	.242															
6	.692	.621	.544	.446	.341	.204														
7	.718	.645	.587	.506	.401	.300	.177													
8	.736	.673	.615	.550	.466	.361	.266	.157												
9	.754	.694	.645	.579	.520	.423	.321	.242	.139											
10	.772	.714	.667	.605	.552	.484	.383	.288	.222	.124										
11	.790	.734	.690	.623	.581	.518	.452	.345	.266	.206	.111									
12	.806	.756	.712	.643	.599	.548	.492	.409	.319	.250	.192	.097								
13	.823	.776	.736	.661	.621	.569	.524	.448	.385	.294	.240	.177	.083							
14	.837	.796	.760	.681	.639	.595	.544	.478	.425	.361	.278	.228	.157	.075						
15	.849	.817	.780	.704	.659	.613	.569	.498	.458	.403	.345	.260	.212	.143	.067					
16	.859	.835	.800	.724	.681	.633	.589	.518	.478	.440	.387	.325	.238	.204	.129	.058				
17	.869	.847	.821	.748	.700	.655	.609	.536	.498	.460	.429	.365	.298	.228	.192	.119	.050			
18	.879	.859	.833	.770	.728	.673	.631	.552	.518	.478	.452	.409	.339	.282	.218	.181	.109	.042		
19	.887	.871	.847	.786	.750	.702	.649	.571	.534	.496	.468	.433	.385	.325	.268	.208	.169	.101	.034	
20	.895	.879	.863	.804	.764	.726	.679	.585	.554	.512	.484	.448	.413	.371	.310	.256	.196	.157	.095	.026
21	.901	.889	.873	.827	.780	.740	.708	.613	.569	.532	.502	.464	.429	.399	.355	.300	.242	.183	.149	.089
22	.907	.897	.883	.845	.798	.758	.722	.639	.599	.550	.518	.486	.444	.419	.379	.345	.290	.224	.177	.141
23	.913	.903	.893	.861	.815	.776	.742	.653	.625	.583	.550	.502	.464	.435	.401	.367	.335	.274	.214	.171
24	.919	.909	.899	.877	.831	.792	.760	.675	.639	.611	.569	.520	.478	.456	.419	.391	.357	.317	.266	.204
25	.925	.915	.905	.887	.849	.810	.772	.696	.661	.625	.599	.550	.494	.470	.438	.411	.383	.337	.308	.258
26	.931	.921	.911	.897	.859	.831	.788	.710	.679	.649	.611	.585	.524	.486	.454	.427	.405	.363	.329	.300
27	.938	.927	.917	.905	.871	.841	.808	.728	.692	.667	.635	.599	.558	.516	.470	.444	.419	.385	.357	.321
28	.942	.935	.923	.913	.881	.853	.821	.752	.706	.679	.653	.625	.575	.548	.512	.482	.440	.397	.379	.349
29	.947	.940	.933	.919	.893	.863	.833	.770	.728	.692	.665	.643	.605	.565	.534	.494	.456	.417	.391	.371
30	.950	.944	.938	.931	.903	.875	.841	.790	.744	.710	.677	.655	.627	.595	.550	.524	.488	.433	.409	.385
31	.954	.948	.942	.935	.919	.885	.853	.804	.764	.724	.694	.667	.641	.621	.579	.542	.520	.468	.425	.401
32	.958	.952	.946	.940	.927	.901	.863	.823	.780	.742	.708	.681	.653	.635	.611	.567	.534	.502	.458	.419
33	.962	.956	.950	.944	.933	.913	.877	.837	.802	.760	.722	.696	.665	.647	.625	.603	.558	.522	.488	.452
34	.966	.960	.954	.948	.938	.923	.891	.853	.817	.786	.740	.708	.679	.657	.635	.617	.599	.544	.508	.480
35	.970	.964	.958	.952	.942	.931	.901	.873	.831	.800	.772	.720	.692	.669	.643	.627	.613	.586	.530	.500
36	.974	.968	.962	.956	.946	.938	.913	.885	.853	.813	.788	.752	.704	.681	.651	.635	.623	.607	.575	.522
37	.978	.972	.966	.960	.950	.944	.921	.899	.867	.835	.800	.774	.732	.694	.659	.643	.631	.617	.597	.567
38	.982	.976	.970	.964	.954	.948	.931	.909	.883	.849	.823	.788	.754	.720	.687	.651	.639	.625	.609	.593
39	.986	.980	.974	.968	.958	.952	.940	.921	.895	.865	.837	.810	.772	.740	.688	.659	.647	.633	.619	.605
40	.990	.984	.978	.972	.962	.956	.948	.931	.909	.877	.853	.825	.796	.756	.708	.677	.655	.641	.629	.615

TOTAL OBSERVATIONS 496

TABLE 13. 6.b. P(V ≥ W) I LAUNCH OPPORTUNITIES IN J PERIODS (W = 45 M/SEC).  
 BASED ON MAXIMUM WIND SPEEDS IN THE 10-15 KM LAYER OVER CAPE KENNEDY, FLORIDA.  
 PERIOD OF RECORD JANUARY 1966 - DECEMBER 1968.

CAPE KENNEDY, FLORIDA DECEMBER

SPEEDS GREATER THAN OR EQUAL TO 050 MPS

PC ( I CONSECUTIVE SUCCESSES IN J PERIODS )

	I																			
J	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
1	.357																			
2	.435	.278																		
3	.504	.341	.218																	
4	.563	.407	.262	.173																
5	.609	.466	.310	.208	.141															
6	.641	.512	.359	.244	.165	.117														
7	.667	.552	.401	.280	.192	.139	.095													
8	.692	.581	.438	.317	.218	.163	.113	.077												
9	.710	.603	.472	.349	.244	.188	.131	.089	.065											
10	.728	.625	.498	.377	.270	.212	.149	.101	.075	.054										
11	.746	.645	.520	.405	.292	.236	.167	.113	.085	.065	.044									
12	.764	.665	.542	.431	.315	.260	.185	.125	.095	.075	.054	.034								
13	.782	.683	.565	.458	.337	.282	.204	.137	.105	.085	.065	.044	.024							
14	.798	.702	.585	.484	.357	.304	.222	.149	.115	.095	.075	.054	.030	.018						
15	.815	.720	.601	.508	.377	.327	.238	.161	.125	.105	.085	.065	.036	.024	.012					
16	.829	.738	.617	.532	.397	.347	.254	.173	.135	.115	.095	.075	.042	.030	.016	.008				
17	.843	.756	.633	.552	.419	.367	.270	.185	.145	.125	.105	.085	.048	.036	.020	.010	.006			
18	.855	.770	.647	.573	.442	.389	.284	.198	.155	.135	.115	.095	.054	.042	.024	.012	.008	.004		
19	.867	.784	.661	.591	.460	.411	.300	.210	.165	.145	.123	.105	.060	.048	.028	.014	.010	.006	.002	
20	.877	.798	.673	.605	.478	.433	.317	.224	.175	.155	.131	.113	.067	.054	.032	.016	.012	.008	.004	.000
21	.887	.813	.685	.619	.496	.452	.333	.238	.188	.165	.139	.121	.071	.060	.036	.018	.014	.010	.006	.000
22	.897	.827	.698	.633	.512	.470	.349	.252	.200	.177	.147	.129	.075	.065	.040	.020	.016	.012	.008	.000
23	.905	.841	.710	.647	.526	.488	.365	.266	.212	.190	.157	.137	.079	.069	.044	.022	.018	.014	.010	.000
24	.913	.855	.722	.661	.540	.504	.381	.282	.224	.202	.167	.147	.083	.073	.048	.024	.020	.016	.012	.000
25	.919	.865	.732	.675	.554	.518	.397	.298	.236	.214	.177	.157	.089	.077	.052	.026	.022	.018	.014	.000
26	.925	.875	.740	.690	.569	.532	.413	.315	.248	.226	.188	.167	.095	.083	.056	.028	.024	.020	.016	.000
27	.931	.885	.748	.700	.583	.546	.427	.331	.260	.238	.198	.177	.101	.089	.060	.030	.026	.022	.018	.000
28	.938	.895	.756	.710	.595	.563	.442	.347	.272	.250	.208	.188	.107	.095	.065	.032	.028	.024	.020	.000
29	.942	.905	.764	.720	.607	.575	.458	.361	.284	.262	.218	.198	.113	.101	.069	.034	.030	.026	.022	.000
30	.946	.915	.772	.730	.619	.587	.472	.377	.296	.274	.228	.208	.119	.107	.073	.036	.032	.028	.024	.000
31	.950	.921	.780	.740	.631	.599	.484	.393	.308	.286	.238	.218	.125	.113	.077	.038	.034	.030	.026	.000
32	.954	.927	.788	.748	.643	.611	.496	.409	.321	.300	.248	.228	.131	.119	.081	.040	.036	.032	.028	.000
33	.958	.933	.794	.756	.655	.623	.508	.423	.333	.313	.260	.238	.137	.125	.085	.042	.038	.034	.030	.000
34	.962	.940	.800	.764	.663	.635	.520	.438	.345	.325	.272	.250	.143	.131	.089	.044	.040	.036	.032	.000
35	.966	.946	.806	.772	.671	.647	.532	.452	.355	.337	.282	.262	.151	.137	.093	.046	.042	.038	.034	.000
36	.970	.952	.813	.780	.677	.655	.544	.466	.365	.349	.292	.274	.159	.145	.097	.048	.044	.040	.036	.000
37	.974	.938	.819	.788	.683	.661	.556	.480	.375	.359	.302	.284	.167	.153	.103	.050	.046	.042	.038	.000
38	.978	.962	.825	.796	.690	.667	.565	.494	.385	.369	.313	.294	.175	.161	.109	.052	.048	.044	.040	.000
39	.982	.966	.831	.804	.696	.673	.573	.506	.395	.379	.321	.304	.183	.169	.115	.054	.050	.046	.042	.000
40	.986	.970	.839	.813	.702	.679	.581	.516	.403	.389	.329	.315	.192	.177	.121	.056	.052	.048	.044	.000

TOTAL OBSERVATIONS 496

TABLE 12. 7. a.  $P(N \geq W)$  I CONSECUTIVE LAUNCH OPPORTUNITIES IN J PERIODS ( $W = 50$  M/SEC).  
 BASED ON MAXIMUM WIND SPEEDS IN THE 10-15 KM LAYER OVER CAPE KENNEDY, FLORIDA.  
 PERIOD OF RECORD JANUARY 1956 - DECEMBER 1965.

CAPE KENNEDY, FLORIDA DECEMBER  
 SPEEDS GREATER THAN OR EQUAL TO 50 MPH

P ( I SUCCESSFUL IN J PERIODS )

	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
1	.357																			
2	.435	.278																		
3	.504	.355	.218																	
4	.563	.427	.294	.173																
5	.609	.486	.353	.234	.141															
6	.641	.540	.415	.292	.192	.117														
7	.667	.577	.476	.355	.236	.165	.095													
8	.692	.599	.520	.421	.290	.204	.139	.077												
9	.710	.625	.544	.472	.363	.250	.171	.115	.065											
10	.728	.643	.575	.498	.417	.327	.208	.143	.099	.054										
11	.746	.661	.595	.530	.446	.387	.276	.171	.125	.087	.044									
12	.764	.679	.613	.552	.478	.419	.339	.234	.147	.113	.075	.034								
13	.782	.698	.631	.571	.502	.452	.379	.294	.202	.133	.101	.063	.024							
14	.798	.718	.649	.585	.524	.476	.415	.341	.254	.181	.121	.087	.048	.018						
15	.815	.736	.667	.601	.538	.504	.442	.381	.306	.220	.167	.105	.071	.040	.012					
16	.829	.756	.683	.617	.554	.518	.476	.405	.357	.264	.204	.147	.087	.060	.030	.008				
17	.843	.770	.706	.631	.569	.536	.492	.440	.383	.310	.242	.183	.125	.079	.044	.024	.006			
18	.855	.786	.720	.651	.581	.550	.512	.456	.419	.345	.298	.222	.161	.111	.063	.032	.022	.004		
19	.867	.802	.734	.663	.599	.563	.526	.474	.438	.383	.327	.280	.196	.145	.093	.046	.026	.020	.002	
20	.877	.821	.748	.675	.611	.581	.538	.492	.450	.409	.363	.310	.254	.175	.127	.071	.038	.022	.018	.000
21	.887	.837	.762	.690	.623	.595	.554	.510	.462	.425	.393	.345	.284	.234	.153	.105	.058	.030	.020	.014
22	.897	.853	.774	.702	.639	.609	.567	.532	.474	.442	.411	.377	.313	.266	.216	.125	.091	.046	.026	.016
23	.905	.869	.788	.712	.651	.631	.579	.550	.490	.458	.429	.395	.345	.290	.252	.185	.111	.077	.036	.022
24	.913	.879	.804	.726	.661	.643	.603	.567	.506	.476	.446	.415	.363	.321	.273	.224	.167	.099	.063	.030
25	.919	.891	.817	.740	.673	.653	.615	.593	.524	.490	.466	.431	.385	.337	.306	.246	.208	.151	.085	.052
26	.925	.901	.831	.752	.685	.665	.623	.607	.556	.506	.478	.456	.401	.359	.325	.276	.230	.194	.135	.071
27	.931	.911	.843	.766	.694	.679	.633	.617	.575	.540	.492	.468	.429	.373	.349	.294	.256	.214	.183	.117
28	.938	.921	.853	.780	.704	.688	.647	.625	.587	.565	.524	.482	.446	.399	.363	.321	.276	.238	.200	.171
29	.942	.931	.865	.792	.716	.696	.655	.637	.597	.570	.550	.514	.462	.417	.387	.337	.302	.262	.220	.188
30	.946	.938	.877	.808	.728	.704	.663	.645	.609	.580	.567	.542	.496	.433	.407	.359	.319	.288	.242	.208
31	.950	.942	.885	.827	.744	.712	.673	.653	.621	.590	.579	.560	.528	.468	.421	.383	.337	.304	.268	.228
32	.954	.946	.893	.839	.764	.724	.681	.665	.629	.609	.591	.573	.550	.504	.452	.397	.363	.323	.280	.254
33	.958	.950	.901	.851	.780	.740	.692	.673	.641	.615	.601	.587	.565	.530	.486	.427	.379	.351	.292	.266
34	.962	.954	.909	.861	.794	.756	.706	.681	.651	.625	.607	.597	.583	.548	.510	.462	.409	.369	.317	.278
35	.966	.958	.917	.871	.804	.772	.722	.692	.659	.637	.615	.603	.593	.575	.526	.484	.442	.401	.337	.300
36	.970	.962	.923	.883	.815	.782	.742	.702	.669	.645	.627	.609	.599	.589	.554	.500	.462	.431	.371	.323
37	.974	.966	.929	.891	.829	.792	.756	.716	.681	.653	.635	.619	.605	.595	.575	.528	.478	.452	.399	.357
38	.978	.970	.935	.899	.841	.804	.772	.726	.698	.661	.643	.627	.613	.601	.583	.554	.506	.468	.421	.381
39	.982	.974	.942	.907	.853	.815	.784	.742	.712	.671	.651	.635	.621	.607	.591	.563	.540	.494	.438	.405
40	.986	.978	.948	.915	.865	.825	.794	.756	.732	.681	.659	.643	.629	.613	.599	.571	.550	.528	.464	.427

TOTAL OBSERVATIONS 496

TABLE 12, 7.b. P(N ≥ W) I LAUNCH OPPORTUNITIES IN J PERIODS (W = 50 M/SEC).  
 BASED ON MAXIMUM WIND SPEEDS IN THE 10-15 KM LAYER OVER CAPE KENNEDY, FLORIDA.  
 PERIOD OF RECORD JANUARY 1956 - DECEMBER 1963.



CAPE KENNEDY, FLORIDA DECEMBER

SPEEDS GREATER THAN OR EQUAL TO 055 MPS

PC ( I CONSECUTIVE SUCCESSES IN J PERIODS )

I

J	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
1	.246																			
2	.327	.165																		
3	.395	.220	.109																	
4	.456	.276	.145	.073																
5	.514	.321	.183	.095	.050															
6	.558	.359	.222	.117	.063	.038														
7	.595	.395	.252	.139	.075	.046	.030													
8	.625	.427	.290	.163	.087	.054	.038	.022												
9	.649	.460	.317	.185	.099	.063	.046	.028	.016											
10	.669	.492	.345	.206	.111	.071	.054	.034	.022	.010										
11	.686	.518	.373	.226	.121	.077	.063	.040	.028	.014	.006									
12	.704	.544	.401	.248	.131	.087	.071	.046	.034	.018	.010	.002								
13	.720	.563	.427	.270	.143	.095	.079	.052	.040	.022	.014	.004	.000							
14	.734	.581	.450	.292	.157	.105	.087	.058	.046	.025	.018	.006	.000	.000						
15	.748	.597	.468	.310	.171	.117	.097	.065	.052	.030	.022	.008	.000	.000	.000					
16	.764	.615	.486	.329	.185	.129	.107	.073	.058	.034	.026	.010	.000	.000	.000	.000				
17	.774	.633	.504	.347	.198	.141	.117	.081	.067	.038	.030	.012	.000	.000	.000	.000	.000			
18	.792	.651	.518	.365	.212	.153	.127	.089	.075	.047	.034	.014	.000	.000	.000	.000	.000	.000		
19	.806	.667	.532	.381	.226	.167	.137	.097	.083	.046	.038	.016	.000	.000	.000	.000	.000	.000	.000	
20	.821	.683	.546	.397	.238	.181	.149	.105	.091	.050	.042	.018	.000	.000	.000	.000	.000	.000	.000	.000
21	.833	.700	.558	.413	.250	.194	.161	.113	.099	.054	.046	.020	.000	.000	.000	.000	.000	.000	.000	.000
22	.843	.714	.571	.427	.262	.206	.171	.121	.107	.058	.050	.022	.000	.000	.000	.000	.000	.000	.000	.000
23	.851	.730	.583	.442	.274	.218	.181	.129	.115	.063	.054	.024	.000	.000	.000	.000	.000	.000	.000	.000
24	.859	.747	.595	.454	.284	.230	.192	.137	.123	.067	.058	.026	.000	.000	.000	.000	.000	.000	.000	.000
25	.867	.752	.607	.470	.294	.242	.202	.145	.131	.071	.063	.028	.000	.000	.000	.000	.000	.000	.000	.000
26	.875	.767	.617	.484	.304	.252	.212	.153	.139	.075	.067	.030	.000	.000	.000	.000	.000	.000	.000	.000
27	.883	.769	.625	.498	.317	.262	.222	.161	.147	.079	.071	.032	.000	.000	.000	.000	.000	.000	.000	.000
28	.891	.776	.633	.510	.329	.274	.230	.169	.155	.083	.075	.034	.000	.000	.000	.000	.000	.000	.000	.000
29	.897	.784	.641	.522	.339	.286	.240	.177	.163	.087	.079	.036	.000	.000	.000	.000	.000	.000	.000	.000
30	.903	.792	.649	.534	.349	.296	.250	.188	.171	.091	.083	.038	.000	.000	.000	.000	.000	.000	.000	.000
31	.907	.807	.657	.546	.359	.310	.260	.198	.181	.095	.087	.040	.000	.000	.000	.000	.000	.000	.000	.000
32	.911	.808	.665	.558	.369	.323	.270	.208	.192	.101	.091	.042	.000	.000	.000	.000	.000	.000	.000	.000
33	.915	.815	.673	.571	.379	.335	.280	.218	.202	.107	.097	.044	.000	.000	.000	.000	.000	.000	.000	.000
34	.919	.821	.681	.583	.389	.347	.290	.228	.212	.113	.103	.048	.000	.000	.000	.000	.000	.000	.000	.000
35	.923	.827	.690	.595	.399	.359	.300	.238	.222	.119	.109	.052	.002	.000	.000	.000	.000	.000	.000	.000
36	.927	.833	.698	.607	.409	.371	.310	.248	.232	.125	.115	.056	.004	.002	.000	.000	.000	.000	.000	.000
37	.931	.839	.704	.610	.421	.383	.323	.258	.242	.131	.121	.060	.006	.004	.000	.000	.000	.000	.000	.000
38	.935	.845	.714	.629	.433	.395	.335	.270	.252	.137	.127	.065	.008	.006	.000	.000	.000	.000	.000	.000
39	.944	.853	.722	.639	.446	.407	.347	.282	.262	.143	.133	.069	.010	.008	.000	.000	.000	.000	.000	.000
40	.950	.861	.732	.649	.458	.419	.359	.294	.272	.149	.139	.073	.012	.010	.000	.000	.000	.000	.000	.000

TOTAL OBSERVATIONS 498

TABLE 12, 8, a, P(N ≥ W) I CONSECUTIVE LAUNCH OPPORTUNITIES IN J PERIODS (W# = 55 M/SEC).

BASED ON MAXIMUM WIND SPEEDS IN THE 10-15 KM LAYER OVER CAPE KENNEDY, FLORIDA.

PERIOD OF RECORD JANUARY 1956 - DECEMBER 1963.

CAPE KENNEDY, FLORIDA DECEMBER

SPEEDS GREATER THAN OR EQUAL TO .055 MPS

P ( I SUCCESSES IN J PERIODS )

	I																			
J	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
1	.246																			
2	.327	.165																		
3	.395	.234	.109																	
4	.456	.288	.171	.073																
5	.514	.329	.226	.123	.050															
6	.558	.377	.264	.165	.093	.038														
7	.595	.419	.308	.198	.129	.071	.030													
8	.625	.458	.347	.236	.157	.101	.056	.022												
9	.649	.496	.387	.272	.190	.125	.081	.044	.016											
10	.669	.526	.425	.315	.220	.151	.099	.067	.036	.010										
11	.688	.554	.458	.353	.260	.175	.117	.087	.052	.028	.006									
12	.704	.575	.490	.389	.294	.212	.133	.107	.073	.038	.022	.002								
13	.720	.595	.510	.423	.333	.240	.163	.121	.095	.056	.028	.014	.000							
14	.734	.613	.534	.450	.365	.276	.185	.147	.109	.081	.040	.020	.006	.000						
15	.748	.629	.554	.482	.389	.308	.212	.169	.133	.097	.058	.032	.010	.002	.000					
16	.764	.645	.575	.502	.423	.337	.236	.194	.157	.119	.073	.046	.020	.004	.000	.000				
17	.778	.663	.591	.524	.448	.371	.260	.216	.181	.143	.093	.063	.028	.010	.000	.000	.000			
18	.792	.677	.607	.542	.478	.393	.284	.244	.202	.167	.113	.085	.038	.018	.002	.000	.000	.000		
19	.806	.690	.621	.560	.500	.425	.302	.262	.232	.188	.137	.101	.058	.026	.008	.000	.000	.000	.000	
20	.821	.702	.635	.579	.520	.446	.329	.280	.246	.220	.161	.121	.075	.042	.012	.004	.000	.000	.000	.000
21	.833	.716	.649	.595	.540	.468	.349	.298	.264	.236	.196	.143	.091	.060	.022	.006	.002	.000	.000	.000
22	.843	.730	.665	.611	.554	.494	.371	.315	.278	.254	.214	.177	.109	.075	.038	.012	.004	.000	.000	.000
23	.851	.742	.683	.629	.571	.516	.395	.333	.292	.266	.234	.198	.141	.091	.052	.024	.008	.000	.000	.000
24	.859	.754	.694	.651	.585	.542	.421	.349	.308	.278	.248	.220	.161	.119	.071	.034	.016	.000	.000	.000
25	.867	.764	.704	.667	.601	.558	.454	.373	.323	.292	.260	.238	.177	.137	.103	.044	.024	.004	.000	.000
26	.875	.774	.712	.681	.617	.575	.476	.405	.343	.304	.274	.252	.196	.153	.123	.071	.030	.010	.002	.000
27	.883	.784	.720	.692	.633	.593	.496	.425	.375	.321	.286	.266	.212	.171	.139	.087	.052	.016	.004	.000
28	.891	.794	.728	.702	.643	.611	.516	.450	.395	.347	.302	.278	.224	.192	.157	.101	.067	.036	.006	.000
29	.897	.806	.736	.710	.655	.621	.538	.472	.417	.369	.325	.294	.234	.206	.177	.121	.077	.048	.020	.000
30	.903	.817	.746	.718	.663	.635	.556	.494	.438	.389	.347	.317	.248	.216	.192	.141	.095	.058	.028	.010
31	.907	.829	.754	.728	.671	.643	.581	.514	.458	.407	.365	.339	.268	.230	.202	.153	.117	.075	.036	.018
32	.911	.835	.770	.736	.681	.651	.597	.538	.478	.425	.383	.355	.288	.250	.216	.165	.127	.099	.052	.022
33	.915	.841	.780	.750	.690	.659	.613	.558	.502	.444	.401	.371	.302	.270	.236	.181	.137	.109	.081	.032
34	.919	.847	.790	.760	.702	.665	.627	.581	.520	.470	.417	.387	.317	.284	.256	.204	.149	.121	.093	.058
35	.923	.853	.798	.777	.712	.673	.639	.599	.542	.486	.446	.401	.331	.298	.272	.224	.169	.133	.105	.071
36	.927	.857	.808	.780	.726	.679	.653	.613	.560	.506	.466	.427	.343	.313	.288	.240	.188	.155	.115	.083
37	.931	.861	.817	.790	.736	.690	.663	.624	.577	.524	.486	.450	.365	.325	.302	.258	.204	.173	.133	.093
38	.938	.865	.825	.800	.744	.700	.675	.639	.597	.542	.504	.468	.383	.347	.315	.272	.224	.190	.149	.109
39	.944	.871	.833	.808	.754	.710	.685	.651	.611	.565	.522	.486	.393	.369	.335	.284	.238	.212	.163	.125
40	.950	.877	.843	.817	.762	.720	.698	.659	.627	.585	.542	.506	.403	.383	.357	.304	.250	.226	.190	.137

TOTAL OBSERVATIONS 496

TABLE 12. 8.b. P(W ≥ W<sub>0</sub>) I LAUNCH OPPORTUNITIES IN J PERIODS (W<sub>0</sub> = 55 M/SEC).  
BASED ON MAXIMUM WIND SPEEDS IN THE 10-15 KM LAYER OVER CAPE KENNEDY, FLORIDA.

CAPE KENNEDY , FLORIDA DECEMBER

SPEEDS GREATER THAN OR EQUAL TO 060 MPS

PC ( I CONSECUTIVE SUCCESSES IN J PERIODS )

	I																			
J	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
1	.165																			
2	.232	.099																		
3	.294	.131	.063																	
4	.347	.165	.085	.038																
5	.391	.198	.109	.050	.024															
6	.431	.226	.133	.063	.030	.018														
7	.466	.252	.157	.075	.036	.024	.012													
8	.498	.278	.177	.087	.042	.030	.016	.008												
9	.526	.306	.196	.099	.048	.036	.020	.012	.004											
10	.542	.335	.214	.109	.054	.042	.024	.016	.006	.002										
11	.565	.363	.232	.119	.060	.048	.028	.020	.008	.004	.000									
12	.581	.389	.250	.131	.067	.054	.032	.024	.010	.006	.000	.000								
13	.597	.411	.268	.143	.075	.060	.036	.028	.012	.008	.000	.000	.000							
14	.613	.431	.284	.155	.083	.069	.040	.032	.014	.010	.000	.000	.000	.000						
15	.629	.450	.300	.165	.091	.077	.044	.036	.016	.012	.000	.000	.000	.000	.000					
16	.645	.468	.315	.175	.099	.085	.052	.042	.018	.014	.000	.000	.000	.000	.000	.000				
17	.659	.486	.329	.188	.107	.093	.058	.048	.022	.016	.000	.000	.000	.000	.000	.000	.000			
18	.673	.504	.343	.200	.117	.101	.065	.054	.026	.018	.000	.000	.000	.000	.000	.000	.000	.000		
19	.688	.522	.357	.212	.127	.109	.071	.060	.030	.020	.000	.000	.000	.000	.000	.000	.000	.000	.000	
20	.702	.538	.373	.224	.137	.117	.077	.067	.034	.022	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
21	.716	.554	.387	.238	.147	.125	.083	.073	.038	.024	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
22	.730	.571	.401	.248	.159	.133	.089	.079	.042	.026	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
23	.744	.585	.415	.258	.171	.143	.095	.085	.046	.028	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
24	.758	.599	.429	.268	.181	.153	.101	.091	.050	.030	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
25	.768	.615	.444	.278	.192	.163	.107	.097	.054	.032	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
26	.778	.629	.460	.288	.202	.173	.113	.103	.058	.034	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
27	.788	.643	.476	.298	.212	.183	.119	.109	.063	.036	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
28	.798	.657	.492	.308	.222	.194	.125	.115	.067	.038	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
29	.808	.669	.508	.319	.232	.204	.131	.121	.071	.040	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
30	.817	.681	.524	.329	.242	.214	.137	.127	.075	.042	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
31	.823	.694	.540	.341	.252	.224	.143	.133	.079	.044	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
32	.829	.704	.556	.353	.264	.234	.149	.139	.083	.046	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
33	.835	.714	.573	.365	.276	.246	.155	.145	.087	.048	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
34	.841	.724	.589	.377	.288	.258	.163	.151	.091	.050	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
35	.847	.730	.607	.389	.300	.270	.171	.159	.095	.052	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
36	.851	.736	.623	.401	.313	.282	.179	.167	.101	.054	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
37	.855	.742	.639	.413	.325	.294	.190	.175	.107	.056	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
38	.859	.748	.655	.425	.337	.306	.200	.183	.113	.058	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
39	.865	.754	.671	.438	.349	.319	.210	.192	.119	.060	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
40	.871	.760	.685	.450	.361	.331	.220	.200	.125	.063	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000

TOTAL OBSERVATIONS 496

TABLE 12. 9.a. P(N ≥ W) I CONSECUTIVE LAUNCH OPPORTUNITIES IN J PERIODS (W = 60 M/SEC).  
 BASED ON MAXIMUM WIND SPEEDS IN THE 10-15 KM LAYER OVER CAPE KENNEDY, FLORIDA.  
 PERIOD OF RECORD JANUARY 1956 - DECEMBER 1963.

CAPE KENNEDY, FLORIDA DECEMBER  
SPEEDS GREATER THAN OR EQUAL TO 060 MPS

P ( I SUCCESSES IN J PERIODS )

J	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
1	.165																			
2	.232	.099																		
3	.294	.137	.063																	
4	.347	.181	.093	.038																
5	.391	.224	.131	.056	.024															
6	.431	.256	.167	.087	.034	.018														
7	.466	.288	.200	.111	.056	.028	.012													
8	.498	.319	.230	.135	.073	.046	.020	.008												
9	.526	.353	.258	.157	.089	.060	.034	.016	.004											
10	.548	.387	.290	.177	.101	.077	.048	.026	.010	.002										
11	.565	.421	.327	.198	.113	.089	.065	.036	.016	.008	.000									
12	.581	.442	.369	.222	.127	.101	.077	.050	.022	.012	.004	.000								
13	.597	.458	.395	.256	.145	.111	.089	.065	.032	.016	.006	.002	.000							
14	.613	.472	.419	.282	.171	.123	.101	.077	.044	.022	.008	.004	.000	.000						
15	.629	.486	.442	.306	.194	.141	.115	.089	.052	.032	.012	.006	.000	.000	.000					
16	.645	.500	.460	.329	.216	.157	.133	.103	.065	.036	.020	.010	.000	.000	.000	.000				
17	.659	.516	.476	.349	.234	.177	.149	.121	.081	.042	.024	.016	.002	.000	.000	.000	.000			
18	.673	.532	.490	.371	.250	.192	.169	.137	.101	.052	.028	.020	.006	.000	.000	.000	.000	.000		
19	.688	.548	.504	.389	.270	.204	.179	.159	.115	.071	.034	.024	.010	.000	.000	.000	.000	.000	.000	
20	.702	.565	.518	.407	.286	.218	.190	.169	.137	.085	.048	.030	.014	.000	.000	.000	.000	.000	.000	.000
21	.716	.581	.532	.421	.304	.232	.202	.179	.147	.107	.063	.040	.020	.000	.000	.000	.000	.000	.000	.000
22	.730	.597	.546	.435	.317	.250	.214	.192	.157	.117	.083	.054	.026	.002	.000	.000	.000	.000	.000	.000
23	.744	.613	.560	.450	.329	.264	.228	.206	.169	.127	.093	.075	.036	.004	.000	.000	.000	.000	.000	.000
24	.758	.629	.575	.464	.341	.276	.242	.220	.183	.135	.105	.083	.058	.006	.000	.000	.000	.000	.000	.000
25	.768	.647	.591	.478	.353	.288	.252	.234	.198	.145	.113	.095	.069	.020	.000	.000	.000	.000	.000	.000
26	.778	.661	.609	.494	.365	.300	.262	.244	.214	.155	.123	.101	.085	.030	.004	.000	.000	.000	.000	.000
27	.788	.671	.629	.512	.377	.313	.272	.254	.226	.167	.131	.109	.093	.050	.008	.000	.000	.000	.000	.000
28	.798	.681	.641	.534	.391	.325	.282	.264	.236	.177	.143	.115	.103	.063	.022	.000	.000	.000	.000	.000
29	.808	.692	.653	.554	.411	.339	.292	.274	.246	.185	.153	.125	.111	.075	.030	.008	.000	.000	.000	.000
30	.817	.704	.665	.573	.429	.355	.304	.284	.256	.194	.161	.133	.121	.087	.040	.014	.004	.000	.000	.000
31	.823	.714	.681	.591	.446	.373	.317	.296	.266	.204	.167	.139	.129	.099	.054	.022	.006	.002	.000	.000
32	.829	.724	.694	.613	.462	.387	.333	.308	.278	.214	.175	.145	.135	.107	.071	.034	.010	.004	.000	.000
33	.835	.732	.708	.635	.480	.401	.345	.325	.290	.226	.183	.153	.141	.113	.083	.050	.016	.008	.000	.000
34	.841	.740	.716	.661	.500	.415	.357	.337	.306	.236	.196	.161	.149	.119	.093	.063	.028	.012	.002	.000
35	.847	.746	.724	.683	.524	.431	.369	.349	.319	.250	.206	.173	.157	.127	.103	.071	.038	.022	.004	.002
36	.851	.754	.730	.704	.548	.450	.381	.361	.331	.260	.220	.183	.169	.135	.113	.081	.046	.028	.012	.004
37	.855	.762	.736	.714	.579	.472	.395	.373	.343	.270	.230	.198	.179	.145	.123	.091	.056	.034	.014	.012
38	.859	.770	.742	.722	.601	.500	.411	.385	.355	.280	.240	.208	.194	.153	.135	.101	.065	.040	.018	.014
39	.865	.776	.750	.730	.621	.518	.438	.407	.367	.290	.250	.218	.204	.165	.145	.113	.073	.044	.022	.018
40	.871	.782	.756	.740	.639	.536	.460	.415	.379	.300	.260	.228	.214	.175	.155	.125	.083	.048	.026	.020

TOTAL OBSERVATIONS 496

TABLE 12. 9.b. P(W ≥ W\*) I LAUNCH OPPORTUNITIES IN J PERIODS (W\* = 60 M/SEC).  
BASED ON MAXIMUM WIND SPEEDS IN THE 10-15 KM LAYER OVER CAPE KENNEDY, FLORIDA.  
PERIOD OF RECORD JANUARY 1956 - DECEMBER 1963.

CAPF KENNEDY, FLORIDA DECEMBER  
SPEEDS GREATER THAN OR EQUAL TO 065 MPS

PC ( I CONSECUTIVE SUCCESSES IN J PERIODS )

	I																			
J	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
1	.101																			
2	.147	.050																		
3	.194	.069	.030																	
4	.236	.089	.040	.018																
5	.272	.107	.052	.024	.010															
6	.300	.125	.065	.030	.014	.006														
7	.329	.143	.075	.036	.018	.010	.002													
8	.357	.159	.085	.042	.022	.014	.004	.000												
9	.383	.175	.093	.048	.026	.018	.006	.000	.000											
10	.407	.192	.101	.054	.030	.022	.008	.000	.000	.000										
11	.429	.208	.111	.060	.034	.026	.010	.000	.000	.000	.000									
12	.450	.224	.121	.069	.038	.030	.012	.000	.000	.000	.000	.000								
13	.468	.240	.131	.077	.044	.034	.014	.000	.000	.000	.000	.000	.000							
14	.484	.254	.141	.085	.050	.040	.016	.000	.000	.000	.000	.000	.000	.000						
15	.500	.268	.149	.093	.056	.046	.020	.000	.000	.000	.000	.000	.000	.000	.000					
16	.516	.282	.157	.101	.063	.052	.024	.002	.000	.000	.000	.000	.000	.000	.000	.000				
17	.532	.296	.165	.109	.069	.058	.028	.004	.002	.000	.000	.000	.000	.000	.000	.000	.000			
18	.548	.310	.173	.119	.075	.065	.032	.006	.004	.000	.000	.000	.000	.000	.000	.000	.000	.000		
19	.565	.325	.181	.129	.081	.071	.036	.008	.006	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	
20	.581	.339	.192	.139	.087	.077	.040	.010	.008	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
21	.597	.351	.202	.151	.093	.083	.044	.012	.010	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
22	.613	.363	.212	.163	.101	.089	.048	.014	.012	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
23	.629	.375	.222	.173	.109	.095	.052	.016	.014	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
24	.643	.387	.232	.183	.117	.101	.056	.018	.016	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
25	.659	.399	.242	.194	.125	.107	.060	.020	.018	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
26	.675	.413	.252	.204	.133	.113	.065	.022	.020	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
27	.692	.427	.262	.214	.141	.119	.069	.024	.022	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
28	.708	.442	.272	.224	.149	.125	.073	.026	.024	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
29	.724	.456	.282	.234	.157	.131	.077	.028	.026	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
30	.740	.470	.294	.244	.165	.137	.081	.030	.028	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
31	.756	.484	.306	.256	.173	.143	.085	.032	.030	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
32	.772	.498	.319	.268	.181	.149	.089	.034	.032	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
33	.788	.512	.331	.280	.190	.155	.093	.036	.034	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
34	.804	.526	.343	.292	.198	.161	.097	.038	.036	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
35	.819	.540	.355	.304	.206	.167	.101	.040	.038	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
36	.831	.554	.367	.317	.214	.173	.105	.042	.040	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
37	.841	.569	.379	.329	.222	.179	.109	.044	.042	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
38	.847	.583	.391	.341	.230	.185	.113	.046	.044	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
39	.851	.595	.403	.353	.238	.192	.117	.048	.046	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
40	.855	.605	.413	.365	.246	.198	.121	.050	.048	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000

TOTAL OBSERVATIONS 496

TABLE 12.10.a. P(W ≥ W\*) I CONSECUTIVE LAUNCH OPPORTUNITIES IN J PERIODS (W\* = 65 M/SEC).  
BASED ON MAXIMUM WIND SPEEDS IN THE 10-15 KM LAYER OVER CAPE KENNEDY, FLORIDA.  
PERIOD OF RECORD JANUARY 1956 - DECEMBER 1963.

CAPE KENNEDY, FLORIDA DECEMBER  
 SPEEDS GREATER THAN OR EQUAL TO 665 MPS

P ( I SUCCESSES IN J PERIODS )

	I																			
J	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
1	.171																			
2	.147	.052																		
3	.194	.071	.030																	
4	.236	.093	.044	.018																
5	.272	.121	.054	.030	.010															
6	.305	.151	.071	.036	.020	.006														
7	.323	.173	.091	.048	.026	.014	.002													
8	.357	.194	.107	.060	.038	.020	.006	.000												
9	.383	.214	.123	.073	.046	.032	.010	.000	.000											
10	.407	.236	.143	.085	.054	.040	.020	.000	.000	.000										
11	.429	.252	.159	.103	.060	.048	.028	.004	.000	.000	.000									
12	.450	.270	.177	.117	.073	.054	.038	.006	.002	.000	.000	.000								
13	.469	.286	.196	.131	.087	.060	.046	.010	.004	.000	.000	.000	.000							
14	.484	.302	.212	.143	.101	.071	.054	.014	.006	.000	.000	.000	.000	.000						
15	.500	.317	.226	.157	.113	.081	.065	.020	.008	.000	.000	.000	.000	.000	.000					
16	.516	.331	.240	.171	.129	.091	.073	.028	.012	.000	.000	.000	.000	.000	.000	.000				
17	.532	.343	.254	.181	.145	.107	.091	.034	.018	.002	.000	.000	.000	.000	.000	.000	.000			
18	.548	.355	.270	.192	.155	.127	.103	.040	.024	.004	.000	.000	.000	.000	.000	.000	.000	.000		
19	.565	.367	.286	.204	.165	.137	.115	.046	.030	.006	.000	.000	.000	.000	.000	.000	.000	.000	.000	
20	.581	.379	.300	.214	.177	.147	.125	.065	.036	.008	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
21	.597	.391	.310	.228	.188	.159	.135	.071	.034	.012	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
22	.613	.403	.321	.240	.200	.171	.147	.077	.040	.028	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
23	.629	.415	.331	.252	.210	.185	.159	.083	.047	.038	.006	.000	.000	.000	.000	.000	.000	.000	.000	.000
24	.643	.427	.341	.264	.220	.198	.173	.089	.073	.048	.008	.004	.000	.000	.000	.000	.000	.000	.000	.000
25	.659	.440	.351	.276	.230	.210	.185	.097	.079	.058	.010	.006	.002	.000	.000	.000	.000	.000	.000	.000
26	.675	.454	.361	.286	.242	.220	.198	.105	.085	.067	.014	.008	.004	.000	.000	.000	.000	.000	.000	.000
27	.692	.468	.371	.296	.252	.232	.208	.113	.091	.073	.020	.010	.006	.000	.000	.000	.000	.000	.000	.000
28	.708	.482	.383	.306	.262	.242	.220	.121	.097	.079	.024	.014	.008	.000	.000	.000	.000	.000	.000	.000
29	.724	.496	.395	.319	.272	.252	.232	.129	.103	.085	.028	.016	.012	.000	.000	.000	.000	.000	.000	.000
30	.740	.510	.407	.331	.284	.262	.242	.139	.109	.091	.034	.018	.014	.002	.000	.000	.000	.000	.000	.000
31	.756	.524	.419	.343	.296	.274	.252	.149	.117	.097	.040	.022	.016	.004	.000	.000	.000	.000	.000	.000
32	.772	.538	.431	.355	.308	.286	.262	.159	.125	.105	.044	.026	.020	.006	.000	.000	.000	.000	.000	.000
33	.788	.552	.444	.367	.321	.298	.272	.169	.133	.113	.054	.030	.024	.010	.000	.000	.000	.000	.000	.000
34	.804	.569	.456	.379	.333	.310	.282	.177	.143	.121	.065	.034	.028	.014	.002	.000	.000	.000	.000	.000
35	.819	.587	.468	.391	.345	.323	.292	.185	.151	.131	.073	.042	.032	.018	.004	.002	.000	.000	.000	.000
36	.831	.605	.482	.403	.357	.335	.304	.194	.159	.139	.083	.048	.038	.022	.006	.004	.002	.000	.000	.000
37	.841	.623	.498	.415	.369	.347	.317	.202	.167	.147	.091	.054	.044	.028	.008	.006	.004	.002	.000	.000
38	.847	.641	.516	.427	.381	.359	.329	.210	.175	.155	.099	.063	.052	.032	.012	.008	.006	.004	.002	.000
39	.851	.655	.538	.440	.393	.371	.341	.218	.183	.163	.107	.069	.060	.034	.014	.012	.008	.006	.004	.000
40	.855	.669	.558	.454	.405	.383	.353	.226	.192	.171	.115	.075	.067	.042	.016	.014	.012	.008	.006	.000

TOTAL OBSERVATIONS 496

TABLE 12.10.b. P(W ≥ W<sub>0</sub>) I LAUNCH OPPORTUNITIES IN J PERIODS (W<sub>0</sub> = 65 M/SEC).  
 BASED ON MAXIMUM WIND SPEEDS IN THE 10-15 KM LAYER OVER CAPE KENNEDY, FLORIDA.  
 PERIOD OF RECORD JANUARY 1956 - DECEMBER 1969.

CAPF KENNEDY . FLORIDA DECEMBER  
 SPEEDS GREATER THAN OR EQUAL TO 070 MPS

PC ( I CONSECUTIVE SUCCESSES IN J PERIODS )

J	I																			
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
1	.054																			
2	.081	.024																		
3	.107	.032	.014																	
4	.133	.042	.018	.008																
5	.159	.052	.022	.010	.004															
6	.183	.063	.026	.012	.006	.002														
7	.206	.075	.030	.014	.008	.004	.000													
8	.228	.087	.034	.016	.010	.006	.000	.000												
9	.250	.099	.038	.018	.012	.008	.000	.000	.000											
10	.272	.109	.042	.020	.014	.010	.000	.000	.000	.000										
11	.292	.119	.046	.022	.016	.012	.000	.000	.000	.000	.000									
12	.313	.129	.050	.024	.018	.014	.000	.000	.000	.000	.000	.000								
13	.329	.139	.054	.026	.020	.016	.000	.000	.000	.000	.000	.000	.000							
14	.345	.147	.058	.028	.022	.018	.000	.000	.000	.000	.000	.000	.000	.000						
15	.359	.155	.060	.030	.024	.020	.000	.000	.000	.000	.000	.000	.000	.000	.000					
16	.373	.163	.063	.032	.026	.022	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000				
17	.387	.173	.065	.034	.028	.024	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000			
18	.401	.183	.067	.036	.030	.026	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000		
19	.415	.194	.069	.038	.032	.028	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	
20	.429	.204	.071	.040	.034	.030	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
21	.444	.214	.073	.042	.036	.032	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
22	.458	.224	.075	.044	.038	.034	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
23	.472	.234	.077	.046	.040	.036	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
24	.484	.244	.079	.048	.042	.038	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
25	.498	.254	.081	.050	.044	.040	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
26	.512	.264	.083	.052	.046	.042	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
27	.526	.278	.085	.054	.048	.044	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
28	.540	.290	.087	.056	.050	.046	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
29	.554	.302	.089	.058	.052	.048	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
30	.569	.315	.093	.060	.054	.050	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
31	.583	.327	.097	.065	.056	.052	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
32	.597	.339	.103	.069	.058	.054	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
33	.611	.351	.109	.075	.060	.056	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
34	.627	.363	.115	.081	.065	.058	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
35	.643	.375	.123	.087	.069	.063	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
36	.659	.387	.131	.093	.075	.067	.002	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
37	.675	.399	.139	.099	.077	.071	.004	.002	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
38	.690	.411	.147	.105	.081	.075	.006	.004	.002	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
39	.702	.423	.155	.111	.085	.079	.008	.006	.004	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
40	.714	.433	.163	.117	.089	.083	.010	.008	.006	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000

TOTAL OBSERVATIONS 496

TABLE 12.11.a. P(N ≥ W) I CONSECUTIVE LAUNCH OPPORTUNITIES IN J PERIODS (W = 70 M/SEC).  
 BASED ON MAXIMUM WIND SPEEDS IN THE 10-15 KM LAYER OVER CAPE KENNEDY, FLORIDA.  
 PERIOD OF RECORD JANUARY 1956 - DECEMBER 1963.

CAPF KENNEDY , FLORIDA DECEMBER  
 SPEEDS GREATER THAN OR EQUAL TO 070 MPS

P ( I SUCCESSES IN J PERIODS )

J	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
1	.054																			
2	.081	.024																		
3	.107	.034	.014																	
4	.133	.044	.020	.008																
5	.159	.054	.026	.010	.004															
6	.183	.069	.032	.012	.006	.002														
7	.206	.085	.040	.014	.008	.004	.000													
8	.228	.099	.050	.016	.010	.006	.000	.000												
9	.250	.113	.056	.022	.012	.008	.000	.000	.000											
10	.272	.127	.063	.026	.016	.010	.000	.000	.000	.000										
11	.292	.143	.069	.030	.020	.012	.000	.000	.000	.000	.000									
12	.313	.157	.077	.034	.024	.014	.000	.000	.000	.000	.000	.000								
13	.329	.171	.085	.038	.028	.016	.000	.000	.000	.000	.000	.000	.000							
14	.345	.185	.093	.042	.032	.018	.000	.000	.000	.000	.000	.000	.000	.000						
15	.359	.202	.099	.046	.036	.020	.000	.000	.000	.000	.000	.000	.000	.000	.000					
16	.373	.218	.109	.050	.040	.022	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000				
17	.387	.234	.119	.056	.044	.024	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000			
18	.401	.250	.129	.063	.048	.026	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000		
19	.415	.266	.137	.071	.052	.028	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	
20	.429	.280	.147	.079	.056	.030	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
21	.444	.294	.157	.087	.063	.032	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
22	.458	.308	.167	.095	.067	.036	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
23	.472	.323	.177	.103	.071	.040	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
24	.484	.337	.188	.111	.075	.044	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
25	.498	.351	.198	.119	.079	.048	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
26	.512	.367	.208	.127	.083	.052	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
27	.526	.381	.218	.135	.087	.056	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
28	.540	.395	.230	.143	.091	.060	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
29	.554	.409	.242	.153	.095	.065	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
30	.569	.423	.254	.163	.103	.069	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
31	.583	.438	.266	.173	.113	.077	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
32	.597	.452	.278	.183	.123	.085	.002	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
33	.611	.466	.290	.194	.133	.095	.004	.002	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
34	.627	.480	.302	.204	.143	.105	.008	.004	.002	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
35	.643	.494	.315	.214	.153	.115	.012	.008	.004	.002	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
36	.659	.508	.327	.224	.163	.125	.018	.012	.006	.004	.002	.000	.000	.000	.000	.000	.000	.000	.000	.000
37	.675	.522	.339	.234	.173	.135	.024	.016	.008	.006	.004	.002	.000	.000	.000	.000	.000	.000	.000	.000
38	.690	.538	.351	.244	.183	.145	.030	.020	.010	.008	.006	.004	.002	.000	.000	.000	.000	.000	.000	.000
39	.702	.550	.367	.254	.194	.155	.036	.024	.012	.010	.008	.006	.004	.000	.000	.000	.000	.000	.000	.000
40	.714	.563	.381	.266	.204	.165	.042	.028	.014	.012	.010	.008	.006	.000	.000	.000	.000	.000	.000	.000

TOTAL OBSERVATIONS 496

TABLE 12.11.b. P(W ≥ W<sub>0</sub>) I LAUNCH OPPORTUNITIES IN J PERIODS (W<sub>0</sub> = 70 M/SEC).  
 BASED ON MAXIMUM WIND SPEEDS IN THE 10-15 KM LAYER OVER CAPE KENNEDY, FLORIDA.  
 PERIOD OF RECORD JANUARY 1956 - DECEMBER 1963.



CAPE KENNEDY, FLORIDA DECEMBER  
SPEEDS GREATER THAN OR EQUAL TO 75 MPS

PC ( I CONSECUTIVE SUCCESSES IN J PERIODS )

	I																			
J	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
1	.032																			
2	.050	.012																		
3	.069	.016	.006																	
4	.085	.020	.008	.002																
5	.101	.024	.010	.004	.000															
6	.117	.028	.012	.006	.000	.000														
7	.133	.034	.014	.008	.000	.000	.000													
8	.149	.040	.016	.010	.000	.000	.000	.000												
9	.165	.046	.018	.012	.000	.000	.000	.000	.000											
10	.179	.052	.020	.014	.000	.000	.000	.000	.000	.000										
11	.194	.058	.022	.016	.000	.000	.000	.000	.000	.000	.000									
12	.208	.065	.024	.018	.000	.000	.000	.000	.000	.000	.000	.000								
13	.222	.071	.026	.020	.000	.000	.000	.000	.000	.000	.000	.000	.000							
14	.236	.077	.028	.022	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000						
15	.248	.083	.030	.024	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000					
16	.262	.089	.032	.026	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000				
17	.276	.097	.034	.028	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000			
18	.290	.105	.036	.030	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000		
19	.304	.113	.038	.032	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	
20	.319	.121	.040	.034	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
21	.333	.129	.042	.036	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
22	.347	.137	.044	.038	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
23	.361	.145	.046	.040	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
24	.373	.153	.048	.042	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
25	.385	.161	.050	.044	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
26	.399	.169	.052	.046	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
27	.413	.177	.054	.048	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
28	.427	.185	.056	.050	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
29	.442	.196	.058	.052	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
30	.456	.206	.060	.054	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
31	.470	.216	.063	.056	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
32	.484	.226	.067	.058	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
33	.498	.236	.071	.063	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
34	.512	.246	.075	.067	.002	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
35	.526	.256	.079	.071	.004	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
36	.540	.266	.083	.075	.006	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
37	.554	.276	.087	.079	.008	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
38	.569	.286	.091	.083	.010	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
39	.579	.296	.095	.087	.012	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
40	.589	.306	.099	.091	.014	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000

TOTAL OBSERVATIONS 496

TABLE 12.12.a. PC  $\geq$  I CONSECUTIVE LAUNCH OPPORTUNITIES IN J PERIODS ( $W \geq 75$  M/SEC).  
BASED ON MAXIMUM WIND SPEEDS IN THE 10-15 KM LAYER OVER CAPE KENNEDY, FLORIDA.  
PERIOD OF RECORD JANUARY 1956 - DECEMBER 1963.

CAPE KENNEDY, FLORIDA DECEMBER  
SPEEDS GREATER THAN OR EQUAL TO 075 MPS

P ( I SUCCESSFUL I J PERIODS )

I

J	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
1	.032																			
2	.050	.012																		
3	.069	.016	.006																	
4	.085	.022	.008	.002																
5	.101	.024	.010	.004	.000															
6	.117	.036	.012	.006	.000	.000														
7	.133	.046	.014	.008	.000	.000	.000													
8	.149	.056	.016	.010	.000	.000	.000	.000												
9	.165	.067	.018	.012	.000	.000	.000	.000	.000											
10	.179	.077	.020	.014	.000	.000	.000	.000	.000	.000										
11	.194	.087	.022	.016	.000	.000	.000	.000	.000	.000	.000									
12	.208	.097	.024	.018	.000	.000	.000	.000	.000	.000	.000	.000								
13	.222	.107	.026	.020	.000	.000	.000	.000	.000	.000	.000	.000	.000							
14	.236	.117	.028	.022	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000						
15	.248	.127	.030	.024	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000					
16	.262	.137	.032	.026	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000				
17	.276	.149	.034	.028	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000			
18	.290	.161	.036	.030	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000		
19	.304	.173	.038	.032	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	
20	.319	.185	.040	.034	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
21	.333	.198	.044	.036	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
22	.347	.210	.048	.038	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
23	.361	.222	.052	.040	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
24	.373	.234	.056	.042	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
25	.385	.246	.060	.044	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
26	.399	.258	.065	.046	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
27	.413	.270	.069	.048	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
28	.427	.284	.073	.050	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
29	.442	.298	.079	.052	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
30	.456	.313	.087	.054	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
31	.470	.327	.095	.058	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
32	.484	.341	.103	.063	.002	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
33	.498	.355	.111	.069	.004	.002	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
34	.512	.369	.119	.075	.008	.004	.002	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
35	.526	.383	.127	.081	.012	.006	.004	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
36	.540	.397	.135	.087	.016	.008	.006	.002	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
37	.554	.411	.143	.093	.020	.010	.008	.004	.002	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
38	.569	.425	.151	.099	.024	.012	.010	.006	.004	.002	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
39	.579	.442	.159	.105	.028	.014	.012	.008	.006	.004	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
40	.589	.456	.169	.111	.032	.016	.014	.010	.008	.006	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000

TOTAL OBSERVATIONS 496

TABLE 12.12.b. P(W ≥ W0) I LAUNCH OPPORTUNITIES IN J PERIODS (W0 = 75 M/SEC).  
BASED ON MAXIMUM WIND SPEEDS IN THE 10-15 KM LAYER OVER CAPE KENNEDY, FLORIDA.  
PERIOD OF RECORD JANUARY 1956 - DECEMBER 1965.

CAPE KENNEDY, FLORIDA DECEMBER  
 SPEFDS GREATER THAN OR EQUAL TO 080 MPS

PC ( I CONSECUTIVE SUCCESSES IN J PERIODS )

J	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
1	.008																			
2	.014	.002																		
3	.020	.004	.000																	
4	.026	.006	.000	.000																
5	.032	.008	.000	.000	.000															
6	.038	.010	.000	.000	.000	.000														
7	.044	.012	.000	.000	.000	.000	.000													
8	.050	.014	.000	.000	.000	.000	.000	.000												
9	.056	.016	.000	.000	.000	.000	.000	.000	.000											
10	.060	.018	.000	.000	.000	.000	.000	.000	.000	.000										
11	.065	.020	.000	.000	.000	.000	.000	.000	.000	.000	.000									
12	.069	.022	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000								
13	.073	.024	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000							
14	.077	.026	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000						
15	.081	.028	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000					
16	.085	.030	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000				
17	.091	.032	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000			
18	.097	.034	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000		
19	.103	.036	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	
20	.109	.038	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
21	.117	.040	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
22	.125	.042	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
23	.133	.044	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
24	.141	.046	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
25	.149	.048	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
26	.157	.050	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
27	.165	.052	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
28	.173	.054	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
29	.181	.056	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
30	.190	.058	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
31	.198	.060	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
32	.206	.065	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
33	.214	.069	.002	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
34	.222	.073	.004	.002	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
35	.230	.077	.006	.004	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
36	.238	.081	.008	.006	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
37	.246	.085	.010	.008	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
38	.254	.089	.012	.010	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
39	.260	.093	.014	.012	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
40	.266	.097	.016	.014	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000

TOTAL OBSERVATIONS 496

TABLE 12.13.a. P(W ≥ W<sub>0</sub>) I CONSECUTIVE LAUNCH OPPORTUNITIES IN J PERIODS (W<sub>0</sub> = 80 M/SEC).  
 BASED ON MAXIMUM WIND SPEEDS IN THE 10-15 KM LAYER OVER CAPE KENNEDY, FLORIDA.  
 PERIOD OF RECORD JANUARY 1956 - DECEMBER 1963.

CAPE KENNEDY, FLORIDA DECEMBER

SPEEDS GREATER THAN OR EQUAL TO 080 MPS

P ( I SUCCESSES IN J PERIODS )

J	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	
1	.008																				
2	.014	.002																			
3	.020	.004	.000																		
4	.026	.006	.000	.000																	
5	.032	.008	.000	.000	.000																
6	.038	.010	.000	.000	.000	.000															
7	.044	.012	.000	.000	.000	.000	.000														
8	.050	.014	.000	.000	.000	.000	.000	.000													
9	.056	.016	.000	.000	.000	.000	.000	.000	.000												
10	.060	.018	.000	.000	.000	.000	.000	.000	.000	.000											
11	.065	.020	.000	.000	.000	.000	.000	.000	.000	.000	.000										
12	.069	.022	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000									
13	.073	.024	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000								
14	.077	.026	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000							
15	.081	.028	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000						
16	.085	.030	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000					
17	.091	.032	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000				
18	.097	.034	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000			
19	.103	.036	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000		
20	.109	.038	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	
21	.117	.040	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
22	.125	.042	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
23	.133	.044	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
24	.141	.046	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
25	.149	.048	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
26	.157	.050	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
27	.165	.052	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
28	.173	.054	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
29	.181	.056	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
30	.190	.058	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
31	.198	.063	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
32	.206	.067	.002	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
33	.214	.071	.004	.002	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
34	.222	.077	.006	.004	.002	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
35	.230	.083	.008	.006	.004	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
36	.238	.089	.010	.008	.006	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
37	.246	.095	.012	.010	.008	.002	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
38	.254	.101	.014	.012	.010	.004	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
39	.260	.107	.016	.014	.012	.006	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
40	.266	.113	.018	.016	.014	.008	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000

TOTAL OBSERVATIONS 496

TABLE 12.13.b, P(W ≥ W\*) I LAUNCH OPPORTUNITIES IN J PERIODS (W\* = 80 M/SEC).  
 BASED ON MAXIMUM WIND SPEEDS IN THE 10-15 KM LAYER OVER CAPE KENNEDY, FLORIDA.  
 PERIOD OF RECORD JANUARY 1956 - DECEMBER 1963.