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ATLANTIC TROPICAL CYCLONE STRIKE PROBABILITIES
(For Selected Stations and the Month of September)

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16. ABSTRACT

This report presents tropical cyclone strike probabilities for selected stations during the several specified seasons and time intervals. The selected stations are Cape Kennedy, Florida; Mississippi Test Facility, Bay St. Louis, Mississippi; Wallops Island, Virginia; and Houston, Texas. The seasons are June-July, August, September, October, and November-May, and the time intervals are 12-, 24-, 36-, 48-, 72- and 96-hours. In addition, September strike probabilities are shown for 24- and 48-hour time periods for the five-degree latitude-longitude squares in the North Atlantic, Caribbean and Gulf of Mexico.

The strike probabilities are given for circles having radii of one, two and three degrees of latitude and centered on either the selected station or the centers of the five-degree latitude-longitude squares. These probabilities are computed from the statistical climatologies of tropical cyclone movements presented by Crutcher (1971), published as NASA CR 61355. The model employed is the bivariate normal distribution.

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FOREWORD

This work, a follow-on project to NASA CR 61355, was undertaken to provide tropical cyclone strike probabilities for sites of special interest to the National Aeronautics and Space Administration. The sites -- Cape Kennedy, Houston, Bay St. Louis, and Wallops Island -- were chosen because of their geographical locations relative to the tropical storm tracks.

From these statistical data and the current location of a tropical cyclone, one may assess the probability of the storm moving to within a specified distance of the NASA site.

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Introduction

In a previous report, NASA CR-61355, Crutcher (1971) presents Atlantic tropical cyclone bivariate normal distribution statistics by season and by time periods ranging from 12 to 96 hours. The seasons were June-July, August, September, October, and November-May. That paper provides, as an accompanying publication, the necessary statistical tables to compute strike probabilities (Groenewoud and others, 1967). In addition, for those who have computer facilities available, a Fortran IV electronic computer program was included, thereby bypassing the manual use of the tables.

In this report the term "strike probability" is defined as the probability that the center of an existing tropical cyclone will be within a selected area after a specified time interval. The user should note that the probability of the storm passing through the selected area during the same time interval will, in general, be somewhat greater than the probabilities presented here.

Strike probabilities have been computed for four locations of prime interest to the National Aeronautics and Space Administration, namely, Cape Kennedy, Florida, the Mississippi Test Facility, Bay St. Louis, Mississippi, Wallops Island, Virginia, and Houston, Texas. The time periods for these land locations range from 12- to 96-hours and all seasons are treated. In addition, for more general use, strike probabilities for target areas located at the center of five-degree latitude-longitude squares have been computed for 24- and 48-hour time intervals during September.

If other location strike probabilities are required, they may be computed from the tables furnished with the previous paper (NASA CR-61355) or the electronic computer program may be used. The bivariate normal statistics for use with the computer program can be obtained also from the prior paper or on magnetic tape at cost from the Director, National Climatic Center.

Data Source

The statistics presented here are based on data taken from the NOAA, EDS, National Climatic Center's Card Deck 993 (Tropical Cyclone Deck). The preparation of this deck was funded by the Commander, Naval Weather Service Command, Washington, D. C. The data are, for the most part, taken from the charts of North Atlantic Tropical Cyclones presented by Cry and others (1959) and Cry (1965). A complete description of this deck is available in a reference manual available at the National Climatic Center. The period of record used here is 1899-1969. This deck contains the latitude and longitude positions (in degrees to tenths) of storm centers at 00Z and 12Z. All movement vectors were calculated using the positions at these times. Only storms classified as a "tropical storm" or "hurricane" and originating in the North Atlantic Ocean were treated. These will be referred to as "tropical cyclones." Movements for the periods when these storms were classified as a "tropical depression" or "extratropical" are not included.

Procedures

The computations and grid system used in computing the bivariate statistics are described by Crutcher (op. cit.).

The strike probability values were computed systematically by employing certain restraints and assumptions. First, the bivariate statistics are valid for movements within a five-degree latitude-longitude square where all movements are considered to originate from the center of the square. Second, the targets were specified in all cases as circular areas with radii of one, two, and three degrees latitude (approximately 110, 220 and 330 kilometers). The squares are identified by a four digit number which gives the coordinates of the southwest corner (see Figure 1). The last two digits, when multiplied by five, give the longitude (degrees), while the first two digits give the latitude (degrees). For example, the square which has the four digit identifier 2010 is the square whose southern boundary is 20°N latitude and whose western boundary is 50°W longitude.

Figure 2 schematically illustrates the use of the bivariate normal distribution to obtain strike probabilities. The intersection of the X,Y coordinates locates the center of the origin square. The intersection of the major and minor axes of the ellipse represents the centroid of the distribution of tropical cyclone movements. In other words, it is the most probable position for a cyclone moving from the center of the square. However, the circular area with a radius R is the target area for which the strike probability is needed. The parameters H and K are the distances along the axes of the ellipse which locate the center of the circle relative to the elliptical distribution. $M(s_a)$ and $M(s_b)$ are the lengths of semi-major and semi-minor axes where s_a and s_b are the component standard deviations and M is a coefficient that has a numeric value

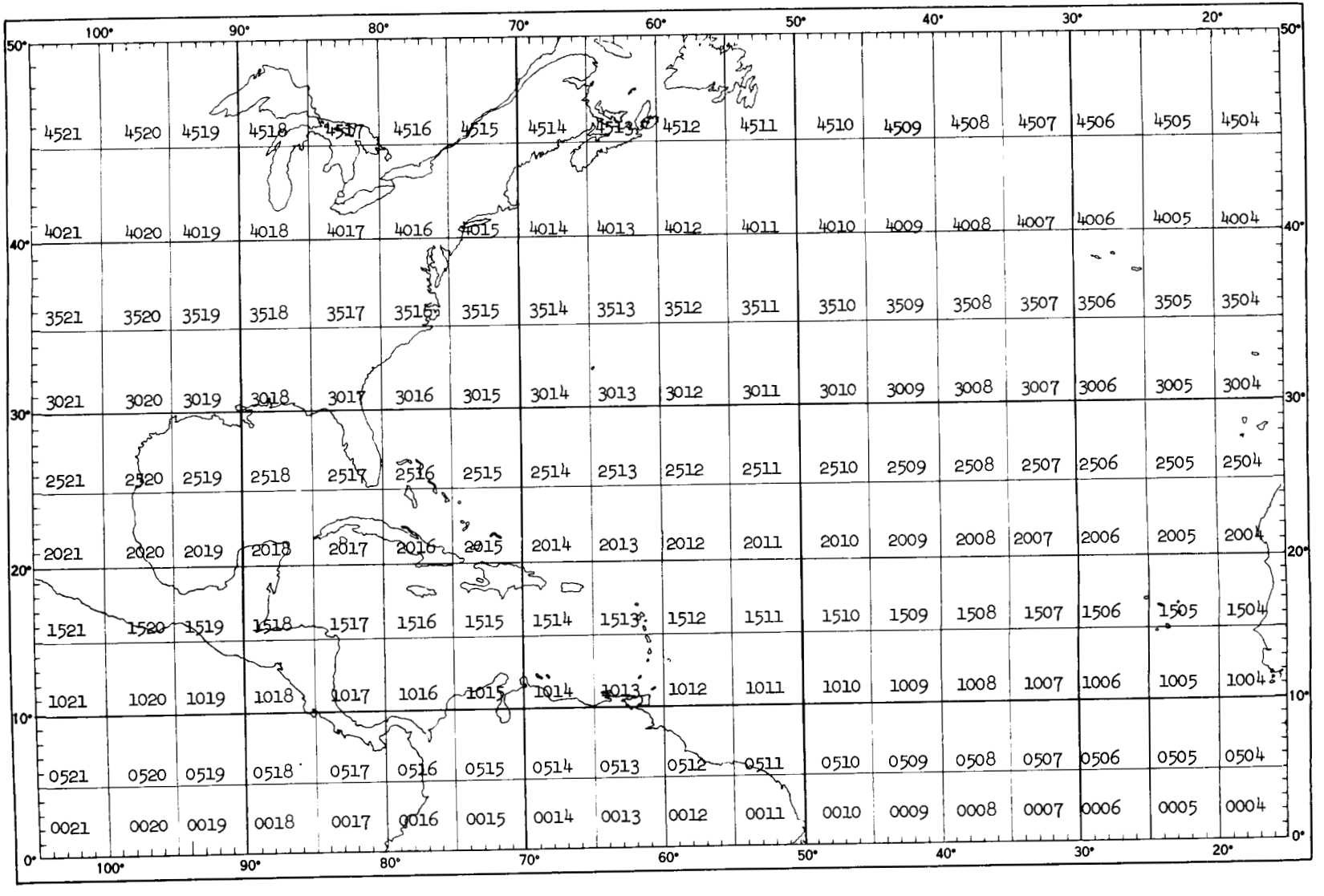

Figure 1 Mercator projection of the tropical North Atlantic and adjacent areas showing the positions and identification scheme for the five degree latitude by five degree longitude "squares".

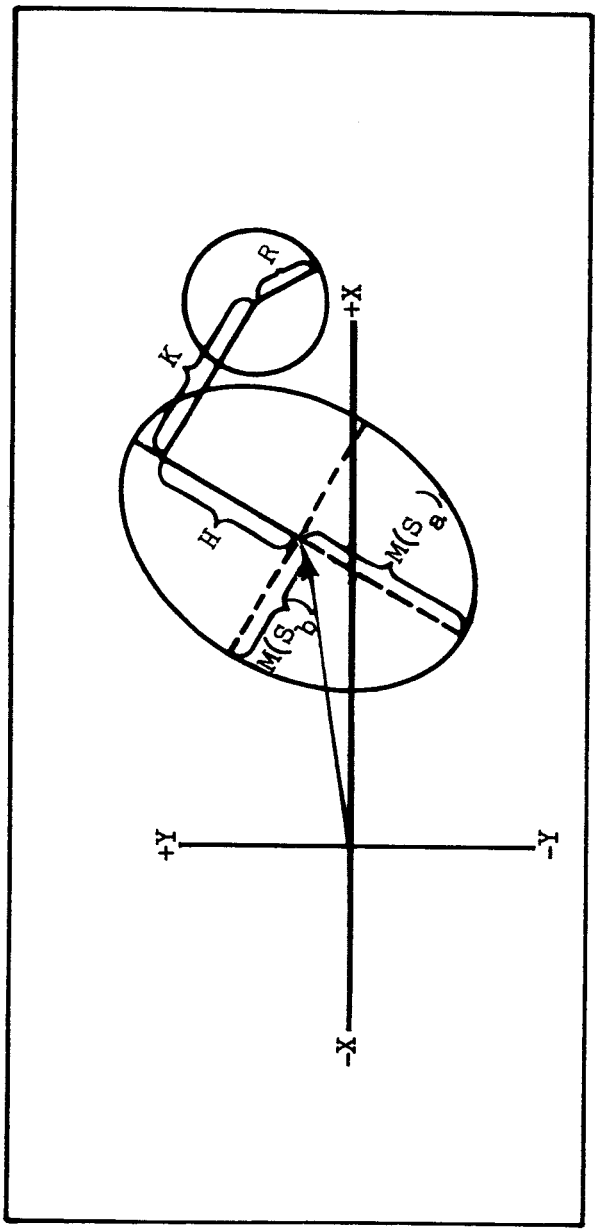

Figure 2 Generalized bivariate normal distribution in X, Y coordinates illustrating the parameters which define and locate the size and position of an offset circle.

dependent on the probability level of the ellipse. The probability value enclosed by the target circle is specified completely by the parameters, H, K, R, s_a and s_b.

Figure 3 illustrates the problem more specifically. During the month of September for Square 2017, all tropical cyclone movements are considered to originate from its center, i.e., from the point located at 22.5N and 82.5W. The target area is located at the center of Square 2517. The probabilities that any tropical cyclone now at 22.5N latitude and 82.5W longitude will, by the end of 48 hours, be within circles with radii of one, two, and three degrees latitude centered at 27.5N latitude and 82.5W longitude are, respectively, 0.029, 0.149, and 0.377. That is, there are about three chances in eight that the tropical cyclone will be found somewhere within the largest circle shown. A situation such as described here would be of special concern to residences and businesses in the Tampa - St. Petersburg areas.

Selected Location Strike Probabilities

Appendix I lists the probabilities by separate five-degree squares of storms (initially located at the center of these squares) moving to locations within target areas centered at Cape Kennedy, Florida; Mississippi Test Facility, Mississippi; Houston, Texas; and Wallops Island, Virginia. The probabilities are given to three decimal places. Those squares for which all the probability values are less than .001 for all three radii are not included. An asterisk indicates that the probability is less

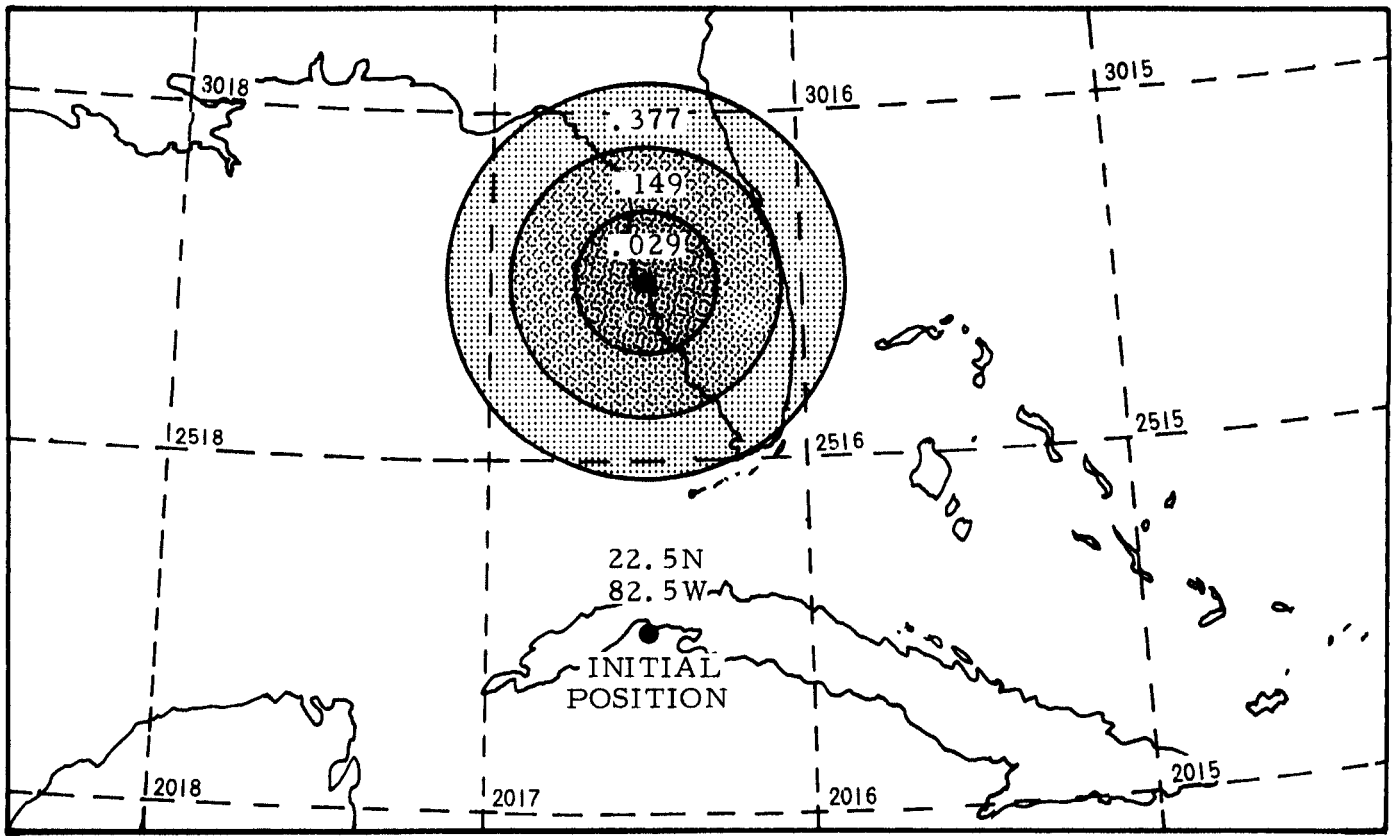

Figure 3: Probabilities of tropical cyclones (initially located at 22.5N, 82.5W) moving in 48 hours to a position within one, two and three degrees of latitude 27.5N and 82.5W. during the month of September.

than .001. Probabilities are not given for squares which have a data sample less than ten. Values are given for five seasons (June-July, August, September, October, November-May) and six time intervals (12, 24, 36, 48, 72, and 96 hours).

Figure 4 illustrates the tabulation of strike probabilities in Appendix I for a specific location. Here, the target location is the Mississippi Test Facility (MTF) near Bay St. Louis, Mississippi. The time period is 72 hours.

For example, look at Square 2017 for August. The center of the square is located at 22.5 degrees north latitude and 82.5 degrees west longitude, about 1100 kilometers southeast of the target area. The strike probabilities are 0.039, 0.145, and 0.297, respectively, for circular areas centered on the MTF with radii of one, two, and three degrees of latitude. These may be interpreted, respectively, as four chances in 100, fifteen chances in 100, and three in 10 that at the end of 72 hours a storm at the center of Square 2017 will be within the specified range of the target.

General Strike Probabilities

Obviously, the actual position of a tropical cyclone may be anywhere in the five-degree latitude-longitude squares. If the present position of a cyclone is known, simply use the probabilities for that square displaced by an equal amount from the center of the target square. Linear interpolation may be employed to provide approximate answers for needed target locations.

TROPICAL CYCLONE STRIKE PROBABILITIES FOR OFFSET CIRCLES WITH RADII OF ONE, TWO, AND THREE DEGREES LATITUDE
TARGET= MISSISSIPPI TEST FACILITY LAT= 30.37N LON= 89.65W
INTERVAL = 72 HOURS

SQUARE	JUNE-JULY	SQUARE	AUGUST	SQUARE	SEPTEMBER	SQUARE	OCTOBER	SQUARE	NOVEMBER-MAY
1514	*	1514	*	1516	.001	1515	*	1517	.001
	.001		*		.004		*		.005
	.004		.001		.013		.001		.012
1516	.003	1515	.003	1517	.003	1516	*	2016	*
	.013		.011		.012		*		*
	.034		.029		.034		.001		.001
1517	.007	1516	.002	1518	.014	1517	*	2516	.001
	.034		.009		.052		.001		.005
	.099		.026		.109		.003		.012
1518	.001	1517	.002	2014	*	1518	.003		
	.005		.009		*		.015		
	.013		.026		.002		.043		
2015	*	2014	*	2015	*	1519	.005		
	*		*		.001		.023		
	.001		.001		.002		.058		
2016	*	2015	*	2016	.005	2014	*		
	.001		.001		.022		.001		
	.010		.004		.057		.002		
2017	.014	2016	.010	2017	.015	2015	.001		
	.055		.045		.059		.002		
	.120		.115		.128		.005		
2018	.019	2017	.039	2018	.020	2017	.003		
	.074		.145		.077		.012		
	.158		.297		.163		.028		
2019	.027	2018	.017	2019	.023	2018	.010		
	.102		.065		.088		.038		
	.213		.141		.186		.084		
2515	.004	2514	*	2514	*	2019	.019		
	.016		*		.001		.075		
	.034		.001		.002		.160		
2516	.012	2515	.001	2515	*	2515	*		
	.046		.003		.002		*		
	.100		.007		.004		.001		
2517	.017	2516	.005	2516	.004	2516	.001		
	.062		.020		.017		.005		
	.125		.044		.038		.011		
2518	.015	2517	.021	2517	.007	2517	*		
	.059		.079		.029		*		
	.127		.160		.063		.001		
2519	.002	2518	.018	2518	.011	2518	.009		
	.010		.071		.043		.035		
	.032		.159		.094		.075		
2520	.002	2519	.001	2519	.014	2519	.015		
	.010		.007		.054		.056		
	.029		.034		.117		.119		
3015	*	3014	.001	3017	*	3013	*		
	*		.003		*		.002		
	.002		.006		.001		.004		
		3015	.001			3015	*		
			.002				.001		
			.006				.002		
		3016	.001			3016	*		
			.005				*		
			.010				.001		

Figure 4 Example of the format used in the presentation of the probabilities for the selected stations.

In order to permit orderly interpolation of data, the strike probabilities are arranged for a given origin square against all squares including the origin square. This last is necessary because the tropical cyclone may not move outside a target area centered at the origin square by the end of the specified time period. Appendix II contains the probabilities by separate five-degree squares of storms (initially located at the center of a given square) moving to a position such that the center of the storm will be within target areas located at the centers of the initial and surrounding squares. Here, only values for September with time intervals of 24 and 48 hours are given. Origin squares with data samples less than ten are not included. The square containing the initial storm position (and the actual coordinates of the initial position) are indicated in the heading of each page. The probability values for the three target areas are printed at the respective location of the squares. The origin square is enclosed to make it easier to compare the listed probabilities.

Figure 5 illustrates the presentation of tropical cyclone strike probabilities for the squares. The target areas are circles with radii of one, two, and three degrees of latitude. The period is 48 hours. Here, a tropical cyclone whose position now is at 22.5 degrees north latitude and 47.5 degrees west longitude threatens all squares shown. The vertical scale shows the square centers in terms of latitude, while the horizontal scale shows the centers in terms of longitude. An asterisk indicates that the probabilities are less than .001. Here, it is seen that there are about five chances in one thousand that the tropical

TROPICAL CYCLONE STRIKE PROBABILITIES FOR CIRCULAR AREAS WITH RADII OF ONE, TWO, AND THREE DEGREES LATITUDE
SEASON - SEPTEMBER TIME INTERVAL - 48 HOURS

5DEG ID = 2010 INITIAL POSITION = 22.5 N 047.5 W NUMBER OF OBS = 14

LATITUDE	LONGITUDE 107.5	102.5	97.5	92.5	87.5	82.5	77.5	72.5	67.5	62.5	57.5	52.5	47.5	42.5	37.5	32.5	27.5	22.5	17.5	12.5
42.5											*	*	.001	.001	*	*				
											.001	.002	.003	.003	.001	.001				
											.002	.005	.007	.007	.004	.001				
37.5									*	.001	.003	.006	.008	.005	.002	.001	*			
									*	.002	.011	.025	.030	.022	.010	.003	.001			
									.001	.007	.027	.058	.068	.049	.022	.007	.001			
32.5									.001	.004	.013	.022	.018	.009	.003	.001	*			
									.002	.017	.053	.083	.070	.035	.011	.002	*			
									.006	.040	.116	.175	.149	.077	.026	.006	.001			
27.5								*	.001	.007	.014	.013	.007	.002	*	*				
								*	.006	.027	.053	.052	.027	.009	.002	*				
								.001	.013	.058	.115	.115	.065	.023	.005	.001				
22.5								*	.001	.002	.002	.001	*	*						
								*	.003	.008	.009	.005	.001	*						
								.001	.007	.019	.023	.013	.005	.001						
17.5									*	*	*									
									*	*	*									
									.001	.001	.001									
12.5																				
07.5																				
02.5																				

Figure 5 Example of the format used in the presentation of the probabilities for the five degree latitude longitude "squares".

cyclone will still be within three degrees of latitude of its present position at the end of 48 hours. However, the probability is much higher two squares north and one square west. There the target probability is about eighteen chances in one hundred or thirty-five times as great. The chances are about eight in one hundred or one in twelve that the tropical cyclone will be within two degrees latitude of the center of the square at 32.5 degrees north and 52.5 degrees west.

Acknowledgments

The probabilities presented in this paper were computed using a computer program developed by Dr. S. Kaufman and Mr. C. Groenewoud of Cornell Aeronautical Laboratory, Inc. This program uses a variable increment numerical integration method to compute probabilities enclosed by offset circles under the bivariate normal distribution.

Acknowledgment is made to Mr. Ray Hoxit for coordinating much of this work and to Messrs. Glenn O'Kelley and Frank Quinlan for providing programming assistance. Appreciation is expressed to Mr. Robert Ford for drafting the figures and to Mrs. Margaret Larabee for preparing the typescript.

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APPENDIX I

Probabilities for the Four Selected Locations (Five Seasons and Six Time Intervals).

TROPICAL CYCLONE STRIKE PROBABILITIES FOR OFFSET CIRCLES WITH RADII OF ONE, TWO, AND THREE DEGREES LATITUDE
TARGET= CAPE KENNEDY, FLORIDA LAT=28.48N LON= 80.55W
INTERVAL = 12 HOURS

SQUARE	JUNE-JULY	SQUARE	AUGUST	SQUARE	SEPTEMBER	SQUARE	OCTOBER	SQUARE	NOVEMBER-MAY
2516	.059	2516	.065	2516	.072	2016	*	2017	*
	.305		.382		.300		*		.008
	.633		.804		.607		.001		.096
2517	.194	2517	.027	2517	.123	2017	*	2516	.001
	.546		.223		.430		*		.033
	.809		.639		.720		.014		.268
3016	.001	3015	*	3016	*	2515	*		
	.006		*		*		.001		
	.031		.001		.005		.004		
				3017	*	2516	.035		
					*		.141		
					.002		.320		
						2517	.201		
							.593		
							.866		
						2518	.001		
							.010		
							.047		
						3016	.004		
							.020		
							.065		
						3017	*		
							.001		
							.014		

TROPICAL CYCLONE STRIKE PROBABILITIES FOR OFFSET CIRCLES WITH RADII OF ONE, TWO, AND THREE DEGREES LATITUDE
TARGET= CAPE KENNEDY, FLORIDA LAT=28.48N LON= 80.55W
INTERVAL = 24 HOURS

SQUARE	JUNE-JULY	SQUARE	AUGUST	SQUARE	SEPTEMBER	SQUARE	OCTOBER	SQUARE	NOVEMBER-MAY
2015	*	2015	*	2015	*	2015	.001	1517	*
	*		*		*		.005		.001
	.004		.004		.002		.027		.003
2017	.011	2016	.001	2016	*	2016	.005	2015	.001
	.056		.027		.002		.028		.006
	.166		.241		.032		.092		.017
2515	.001	2017	.001	2017	.004	2017	.018	2016	*
	.005		.010		.029		.100		.001
	.026		.048		.107		.278		.010
2516	.083	2514	*	2018	*	2018	.001	2514	*
	.284		*		*		.003		*
	.509		.001		.001		.012		.001
2517	.041	2515	.002	2515	.001	2019	*	2515	*
	.190		.015		.008		*		.002
	.431		.055		.026		.001		.009
2518	.002	2516	.092	2516	.057	2515	.004	2516	.021
	.015		.338		.204		.018		.092
	.062		.625		.390		.044		.217
3016	.003	2517	.013	2517	.027	2516	.022		
	.015		.091		.127		.083		
	.041		.292		.314		.178		
3017	*	3015	.003	2518	.007	2517	.045		
	.001		.012		.033		.174		
	.005		.026		.089		.358		
		3016	.001	3015	*	2518	.008		
			.005		.001		.035		
			.018		.003		.092		
				3016	.001	2519	*		
					.004		*		
					.012		.001		
				3017	*	3014	*		
					*		*		
					.003		.001		
						3015	.002		
							.009		
							.025		
						3016	.009		
							.035		
							.079		
						3017	.003		
							.018		
							.061		

TROPICAL CYCLONE STRIKE PROBABILITIES FOR OFFSET CIRCLES WITH RADII OF ONE, TWO, AND THREE DEGREES LATITUDE
TARGET= CAPE KENNEDY, FLORIDA LAT=28.48N LON= 80.55W
INTERVAL = 36 HOURS

SQUARE	JUNE-JULY	SQUARE	AUGUST	SQUARE	SEPTEMBER	SQUARE	OCTOBER	SQUARE	NOVEMBER-MAY
1514	*	2014	*	1516	*	1517	*	1517	.004
	*		.001		*		*		.017
	.001		.003		.001		.001		.040
1517	*	2015	.004	1517	*	1518	*	2015	.003
	.001		.026		*		*		.014
	.003		.096		.002		.001		.036
2015	.003	2016	.077	2014	*	2014	*	2016	.002
	.029		.335		*		*		.013
	.126		.667		.002		.001		.042
2016	.003	2017	.011	2015	.002	2015	.015	2514	*
	.037		.046		.017		.058		.002
	.188		.114		.069		.122		.005
2017	.034	2514	.002	2016	.012	2016	.016	2515	*
	.131		.008		.073		.068		.001
	.275		.021		.220		.157		.003
2018	*	2515	.011	2017	.033	2017	.042	2516	.020
	.002		.045		.120		.160		.077
	.007		.105		.242		.327		.163
2515	.006	2516	.040	2018	.001	2018	.009		
	.025		.159		.003		.037		
	.062		.343		.011		.084		
2516	.071	2517	.002	2019	*	2019	*		
	.253		.014		.001		.001		
	.479		.070		.004		.006		
2517	.008	3014	*	2514	.001	2514	*		
	.048		.001		.004		*		
	.156		.002		.011		.002		
2518	.002	3015	.004	2515	.005	2515	.003		
	.012		.017		.022		.014		
	.047		.036		.053		.033		
3016	.003	3016	.001	2516	.028	2516	.012		
	.011		.004		.104		.046		
	.026		.014		.214		.101		
3017	.001	3017	*	2517	.010	2517	.017		
	.006		.001		.045		.069		
	.018		.003		.118		.153		
				2518	.008	2518	.010		
					.032		.041		
					.079		.095		
				2519	*	2519	.001		
					.001		.005		
					.003		.015		
				3014	*	3013	*		
					.001		.001		
					.003		.002		
				3015	*	3014	.001		
					.001		.002		
					.004		.005		
				3016	.001	3015	.005		
					.004		.021		
					.010		.047		
				3017	*	3016	.009		
					.001		.034		
					.003		.074		
				3018	*	3017	.009		
					*		.038		
					.001		.086		
				3514	*				
					*				
					.002				
				3515	*				
					*				
					.001				
				3516	*				
					.001				
					.003				

TROPICAL CYCLONE STRIKE PROBABILITIES FOR OFFSET CIRCLES WITH RADII OF ONE, TWO, AND THREE DEGREES LATITUDE
TARGET= CAPE KENNEDY, FLORIDA LAT=28.48N LON= 80.55W
INTERVAL = 48 HOURS

SQUARE	JUNE-JULY	SQUARE	AUGUST	SQUARE	SEPTEMBER	SQUARE	OCTOBER	SQUARE	NOVEMBER-MAY
1514	.002	1514	*	1516	.001	1515	*	1517	.009
	.010		.001		.004		.001		.035
	.026		.004		.014		.003		.078
1516	*	1515	*	1517	.002	1516	*	2015	.004
	*		*		.009		.001		.018
	.002		.002		.025		.005		.043
1517	.004	1516	*	1518	*	1517	.001	2016	.005
	.016		*		.001		.005		.024
	.043		.001		.003		.018		.061
2015	.022	2014	.002	2013	*	1518	.003	2514	.001
	.103		.008		.001		.014		.004
	.259		.024		.003		.033		.010
2016	.045	2015	.023	2014	.002	2014	.001	2516	.018
	.206		.099		.008		.004		.071
	.457		.240		.024		.011		.149
2017	.034	2016	.143	2015	.015	2015	.010		
	.129		.446		.067		.039		
	.264		.715		.164		.084		
2018	.003	2017	.011	2016	.042	2016	.016		
	.014		.044		.160		.063		
	.034		.101		.324		.141		
2019	*	2513	*	2017	.031	2017	.033		
	*		.001		.114		.124		
	.002		.002		.230		.251		
2515	.006	2514	.004	2018	.002	2018	.013		
	.026		.016		.007		.052		
	.064		.036		.020		.116		
2516	.045	2515	.013	2019	.002	2019	*		
	.170		.051		.008		.002		
	.344		.105		.020		.006		
2517	.002	2516	.017	2512	*	2513	*		
	.014		.072		*		*		
	.057		.171		.001		.001		
2518	*	2517	.001	2513	*	2514	*		
	.002		.005		*		.001		
	.014		.024		.001		.003		
3015	*	3014	.001	2514	.003	2515	.001		
	*		.002		.014		.005		
	.002		.005		.031		.013		
3016	.001	3015	.003	2515	.007	2516	.008		
	.005		.010		.026		.033		
	.011		.023		.057		.072		
3017	.003	3016	.001	2516	.015	2517	.008		
	.012		.004		.060		.034		
	.027		.012		.128		.077		
		3017	.001	2517	.005	2518	.009		
			.005		.023		.036		
			.015		.058		.083		
				2518	.005	2519	.004		
					.021		.017		
					.051		.046		
				2519	*	3013	.001		
					.002		.004		
					.007		.009		
				3014	.001	3014	.001		
					.003		.005		
					.007		.012		
				3015	*	3015	.006		
					.001		.023		
					.003		.050		
				3016	*	3016	.007		
					*		.027		
					.001		.059		
				3017	*	3017	.004		
					.001		.016		
					.002		.038		
				3018	*				
					.001				
					.002				
				3513	*				
					*				
					.001				

TROPICAL CYCLONE STRIKE PROBABILITIES FOR OFFSET CIRCLES WITH RADII OF ONE, TWO, AND THREE DEGREES LATITUDE
TARGET= CAPE KENNEDY, FLORIDA LAT=28.48N LON= 80.55W
INTERVAL = 48 HOURS

SQUARE	JUNE-JULY	SQUARE	AUGUST	SQUARE	SEPTEMBER	SQUARE	OCTOBER	SQUARE	NOVEMBER-MAY
				3514	*				
					.002				
					.004				
				3515	*				
					*				
					.001				

TROPICAL CYCLONE STRIKE PROBABILITIES FOR OFFSET CIRCLES WITH RADII OF ONE, TWO, AND THREE DEGREES LATITUDE
TARGET= CAPE KENNEDY, FLORIDA LAT=28.48N LON= 80.55W
INTERVAL = 72 HOURS

SQUARE	JUNE-JULY	SQUARE	AUGUST	SQUARE	SEPTEMBER	SQUARE	OCTOBER	SQUARE	NOVEMBER-MAY
1017	.001	1512	.001	1016	*	1513	*	1017	*
	.003		.003		.001		.001		.001
	.008		.008		.004		.003		.004
1513	.007	1513	.004	1513	*	1514	.003	1516	*
	.028		.015		*		.011		*
	.070		.036		.002		.028		.001
1514	.011	1514	.006	1514	.001	1515	.006	1517	.011
	.042		.025		.007		.023		.043
	.095		.065		.020		.052		.094
1516	.009	1515	.002	1515	.001	1516	.006	2016	.006
	.035		.011		.004		.024		.024
	.078		.030		.013		.057		.055
1517	.015	1516	.001	1516	.011	1517	.016	2516	.010
	.057		.005		.042		.063		.039
	.120		.014		.090		.140		.083
1518	*	1517	*	1517	.015	1518	.015		
	*		*		.058		.059		
	.001		.001		.120		.126		
2015	.041	2013	.001	1518	*	2013	.002		
	.145		.003		.001		.009		
	.276		.008		.002		.021		
2016	.069	2014	.009	2012	*	2014	.002		
	.242		.035		.001		.009		
	.427		.079		.002		.020		
2017	.020	2015	.046	2013	.003	2015	.002		
	.079		.171		.014		.009		
	.169		.340		.031		.021		
2018	.008	2016	.031	2014	.008	2016	.009		
	.032		.128		.032		.037		
	.070		.292		.072		.085		
2019	.001	2017	.003	2015	.019	2017	.015		
	.005		.014		.073		.058		
	.015		.036		.154		.123		
2515	.001	2018	*	2016	.026	2018	.009		
	.005		*		.098		.038		
	.017		.001		.204		.084		
2516	.015	2513	.003	2017	.010	2019	.002		
	.060		.010		.041		.011		
	.136		.023		.093		.026		
2517	*	2514	.004	2018	.003	2513	*		
	.003		.016		.013		.001		
	.012		.036		.032		.002		
2518	*	2515	.007	2019	.003	2514	*		
	.001		.027		.012		*		
	.005		.060		.028		.001		
3015	.001	2516	.003	2511	*	2515	.001		
	.003		.015		*		.005		
	.007		.040		.001		.011		
		2517	*	2512	*	2516	.006		
			.002		*		.024		
			.009		.001		.053		
		2518	*	2513	*	2517	.002		
			.001		.001		.007		
			.003		.004		.017		
		3014	*	2514	.004	2518	.005		
			.001		.016		.022		
			.003		.035		.049		

TROPICAL CYCLONE STRIKE PROBABILITIES FOR OFFSET CIRCLES WITH RADII OF ONE, TWO, AND THREE DEGREES LATITUDE
TARGET= CAPE KENNEDY, FLORIDA LAT=28.48N LON= 80.55W
INTERVAL = 72 HOURS

SQUARE	JUNE-JULY	SQUARE	AUGUST	SQUARE	SEPTEMBER	SQUARE	OCTOBER	SQUARE	NOVEMBER-MAY
		3015	.001	2515	.005	2519	.002		
			.004		.021		.009		
			.010		.045		.028		
		3016	.001	2516	.007	3013	.002		
			.005		.029		.008		
			.012		.065		.018		
				2517	.002	3014	*		
					.007		.001		
					.018		.002		
				2518	.003	3015	.005		
					.013		.018		
					.031		.040		
				2519	.001	3016	.002		
					.006		.008		
					.014		.019		
				3013	*				
					*				
					.001				
				3014	*				
					.002				
					.004				
				3015	*				
					*				
					.002				
				3017	*				
					.001				
					.002				
				3513	*				
					.001				
					.002				
				3514	.001				
					.005				
					.011				
				3515	*				
					*				
					.001				

TROPICAL CYCLONE STRIKE PROBABILITIES FOR OFFSET CIRCLES WITH RADII OF ONE, TWO, AND THREE DEGREES LATITUDE
TARGET= CAPE KENNEDY, FLORIDA LAT=28.48N LON= 80.55W
INTERVAL = 96 HOURS

SQUARE	JUNE-JULY	SQUARE	AUGUST	SQUARE	SEPTEMBER	SQUARE	OCTOBER	SQUARE	NOVEMBER-MAY
1013	.001	1010	*	1010	*	1013	*	1016	*
	.003		*		*		*		*
	.008		.001		.001		.001		.001
1017	.005	1011	.001	1015	*	1016	.001	1017	.001
	.021		.006		*		.005		.004
	.049		.015		.001		.013		.010
1513	.016	1012	*	1016	.005	1017	.001	1516	*
	.062		*		.021		.004		.003
	.135		.001		.047		.015		.009
1514	.016	1013	*	1511	*	1513	.001	1517	.009
	.062		.002		.001		.004		.036
	.133		.006		.003		.009		.078
1517	.007	1014	*	1512	.001	1515	.007	2016	.007
	.031		.002		.005		.027		.028
	.073		.005		.014		.059		.062
1518	.001	1510	*	1513	.005	1516	.010		
	.004		*		.019		.040		
	.010		.002		.047		.089		
2015	.013	1511	*	1514	.007	1517	.019		
	.054		.002		.030		.073		
	.121		.006		.069		.154		
2017	.010	1512	.004	1515	.006	1518	.012		
	.040		.017		.025		.048		
	.089		.039		.059		.105		
2018	.006	1513	.012	1516	.013	1519	*		
	.025		.050		.051		.001		
	.062		.113		.109		.005		

TROPICAL CYCLONE STRIKE PROBABILITIES FOR OFFSET CIRCLES WITH RADII OF ONE, TWO, AND THREE DEGREES LATITUDE
TARGET= CAPE KENNEDY, FLORIDA LAT=28.48N LON= 80.55W
INTERVAL = 96 HOURS

SQUARE	JUNE-JULY	SQUARE	AUGUST	SQUARE	SEPTEMBER	SQUARE	OCTOBER	SQUARE	NOVEMBER-MAY
2019	.002	1514	.015	1517	.011	2013	.002		
	.007		.060		.045		.006		
	.020		.130		.098		.014		
2515	.001	1515	.005	2011	*	2014	.001		
	.003		.021		*		.002		
	.009		.049		.002		.006		
2516	.006	1516	.002	2012	.002	2015	.002		
	.025		.009		.010		.006		
	.058		.022		.023		.014		
2517	*	2013	.003	2013	.005	2016	.008		
	.003		.012		.018		.030		
	.009		.028		.040		.066		
		2014	.012	2014	.008	2017	.007		
			.047		.032		.028		
			.100		.068		.061		
		2015	.020	2015	.011	2018	.005		
			.076		.044		.021		
			.161		.094		.046		
		2016	.005	2016	.006	2019	.003		
			.025		.025		.013		
			.073		.058		.034		
		2017	.001	2017	.005	2514	*		
			.004		.021		.001		
			.012		.047		.003		
		2513	.002	2018	.001	2515	.001		
			.007		.004		.005		
			.016		.011		.012		
		2514	.004	2019	.012	2516	.004		
			.015		.045		.018		
			.032		.097		.038		
		2515	.003	2511	*	2517	.001		
			.011		*		.005		
			.027		.001		.012		
		2516	.002	2512	*	3015	.004		
			.007		.001		.017		
			.018		.002		.036		
		2517	*	2513	.001	3016	.001		
			.002		.003		.005		
			.005		.007		.011		
		2518	*	2514	.003				
			.001		.010				
			.005		.022				
		3016	.002	2515	.003				
			.008		.013				
			.018		.029				
				2516	.004				
					.018				
					.040				
				2517	*				
					*				
					.001				
				2518	.002				
					.010				
					.023				
				2519	.001				
					.004				
					.010				
				3013	.001				
					.003				
					.007				
				3014	*				
					*				
					.002				
				3513	.001				
					.003				
					.006				
				3514	.002				
					.009				
					.021				
				3515	*				
					.001				
					.003				

TROPICAL CYCLONE STRIKE PROBABILITIES FOR OFFSET CIRCLES WITH RADII OF ONE, TWO, AND THREE DEGREES LATITUDE
TARGET= MISSISSIPPI TEST FACILITY LAT= 30.37N LON= 89.65W
INTERVAL = 12 HOURS

SQUARE	JUNE-JULY	SQUARE	AUGUST	SQUARE	SEPTEMBER	SQUARE	OCTOBER	SQUARE	NOVEMBER-MAY
2518	.010	2518	.027	2517	*	2518	.024		
	.166		.333		*		.139		
	.607		.837		.005		.387		
2519	.003	2519	*	2518	.041	2519	.039		
	.040		*		.242		.177		
	.202		.011		.593		.421		
3017	*			2519	.021	3017	*		
	*				.130		.002		
	.003				.383		.008		
				3017	*				
					.001				
					.005				
				3018	.001				
					.022				
					.177				
				3019	*				
					.001				
					.014				

TROPICAL CYCLONE STRIKE PROBABILITIES FOR OFFSET CIRCLES WITH RADII OF ONE, TWO, AND THREE DEGREES LATITUDE
TARGET= MISSISSIPPI TEST FACILITY LAT= 30.37N LON= 89.65W
INTERVAL = 24 HOURS

SQUARE	JUNE-JULY	SQUARE	AUGUST	SQUARE	SEPTEMBER	SQUARE	OCTOBER	SQUARE	NOVEMBER-MAY
2017	*	2017	*	2018	.002	2018	*		
	*		*		.012		*		
	.001		.003		.052		.004		
2018	.001	2018	*	2019	*	2019	.005		
	.007		.001		.002		.028		
	.032		.008		.013		.085		
2019	*	2517	.002	2516	*	2516	*		
	*		.023		*		*		
	.002		.106		.001		.002		
2517	.004	2518	.167	2517	.008	2517	.002		
	.023		.514		.042		.009		
	.075		.794		.114		.026		
2518	.070	2519	*	2518	.067	2518	.031		
	.257		.002		.238		.121		
	.485		.024		.448		.256		
2519	.019	3017	.001	2519	.057	2519	.068		
	.089		.004		.209		.242		
	.225		.013		.406		.455		
3017	.001			2520	*	3017	.001		
	.006				.001		.006		
	.017				.007		.018		
				3016	*				
					*				
					.001				
				3017	.003				
					.013				
					.032				
				3018	.004				
					.026				
					.090				

TROPICAL CYCLONE STRIKE PROBABILITIES FOR OFFSET CIRCLES WITH RADII OF ONE, TWO, AND THREE DEGREES LATITUDE
TARGET= MISSISSIPPI TEST FACILITY LAT= 30.37N LON= 89.65W
INTERVAL = 36 HOURS

SQUARE	JUNE-JULY	SQUARE	AUGUST	SQUARE	SEPTEMBER	SQUARE	OCTOBER	SQUARE	NOVEMBER-MAY
2017	.002	2017	.006	2017	*	2015	*	1517	*
	.009		.031		.002		*		*
	.030		.090		.013		.001		.002
2018	.010	2018	.002	2018	.019	2017	*		
	.045		.010		.079		*		
	.116		.040		.176		.001		
2019	.004	2516	*	2019	.008	2018	.001		
	.020		.001		.038		.008		
	.056		.004		.097		.036		
2516	*	2517	.023	2516	.001	2019	.031		
	.001		.106		.003		.117		
	.005		.265		.010		.234		
2517	.015	2518	.096	2517	.019	2515	*		
	.061		.329		.072		*		
	.138		.581		.153		.001		
2518	.059	2519	*	2518	.038	2516	.001		
	.202		.005		.141		.003		
	.365		.033		.286		.007		
2519	.013	3015	*	2519	.034	2517	.003		
	.062		*		.131		.012		
	.157		.001		.272		.029		
3016	*	3016	*	2520	*	2518	.022		
	*		.001		.004		.086		
	.001		.003		.020		.163		
3017	.002	3017	.003	3017	.004	2519	.043		
	.009		.011		.017		.162		
	.022		.025		.039		.326		
				3018	.002	3016	*		
					.011		.001		
					.035		.003		
						3017	.001		
							.003		
							.008		

TROPICAL CYCLONE STRIKE PROBABILITIES FOR OFFSET CIRCLES WITH RADII OF ONE, TWO, AND THREE DEGREES LATITUDE
TARGET= MISSISSIPPI TEST FACILITY LAT= 30.37N LON= 89.65W
INTERVAL = 48 HOURS

SQUARE	JUNE-JULY	SQUARE	AUGUST	SQUARE	SEPTEMBER	SQUARE	OCTOBER	SQUARE	NOVEMBER-MAY
1517	*	1517	*	1517	*	1518	*	1517	*
	*		*		*		*		.001
	.002		.001		.001		.002		.004
1518	*	2016	*	1518	.001	2015	.001	2516	*
	.001		*		.005		.004		.002
	.004		.001		.013		.009		.005
2017	.007	2017	.025	2016	*	2016	*		
	.031		.099		*		*		
	.079		.217		.002		.001		
2018	.018	2018	.007	2017	.006	2017	*		
	.074		.030		.028		.002		
	.165		.081		.081		.008		
2019	.017	2019	*	2018	.026	2018	.006		
	.069		*		.098		.028		
	.151		.002		.205		.079		
2515	*	2516	.001	2019	.020	2019	.029		
	*		.007		.078		.109		
	.001		.020		.167		.226		
2516	.002	2517	.039	2515	*	2515	*		
	.009		.144		*		*		
	.026		.289		.001		.001		
2517	.024	2518	.047	2516	.002	2516	.001		
	.085		.180		.009		.004		
	.166		.370		.022		.009		
2518	.039	2519	*	2517	.015	2517	.003		
	.137		.004		.056		.012		
	.256		.024		.119		.026		
2519	.008	3015	*	2518	.020	2518	.014		
	.037		.002		.077		.054		
	.096		.004		.164		.117		
2520	*	3016	.001	2519	.027	2519	.037		
	*		.003		.102		.139		
	.001		.008		.216		.284		
3016	*	3017	.001	3015	*	3013	*		
	*		.006		*		*		
	.001		.015		.001		.001		
3017	.002			3017	.004	3016	*		
	.009				.016		.001		
	.021				.035		.004		
				3018	*				
					*				
					.001				

TROPICAL CYCLONE STRIKE PROBABILITIES FOR OFFSET CIRCLES WITH RADII OF ONE, TWO, AND THREE DEGREES LATITUDE
TARGET= MISSISSIPPI TEST FACILITY LAT= 30.37N LON= 89.65W
INTERVAL = 72 HOURS

SQUARE	JUNE-JULY	SQUARE	AUGUST	SQUARE	SEPTEMBER	SQUARE	OCTOBER	SQUARE	NOVEMBER-MAY
1514	*	1514	*	1516	.001	1515	*	1517	.001
	.001		*		.004		*		.005
	.004		.001		.013		.001		.012
1516	.003	1515	.003	1517	.003	1516	*	2016	*
	.013		.011		.012		*		*
	.034		.029		.034		.001		.001
1517	.007	1516	.002	1518	.014	1517	*	2516	.001
	.034		.009		.052		.001		.005
	.099		.026		.109		.003		.012
1518	.001	1517	.002	2014	*	1518	.003		
	.005		.009		*		.015		
	.013		.026		.002		.043		
2015	*	2014	*	2015	*	1519	.005		
	*		*		.001		.023		
	.001		.001		.002		.058		
2016	*	2015	*	2016	.005	2014	*		
	.001		.001		.022		.001		
	.010		.004		.057		.002		
2017	.014	2016	.010	2017	.015	2015	.001		
	.055		.045		.059		.002		
	.120		.115		.128		.005		
2018	.019	2017	.039	2018	.020	2017	.003		
	.074		.145		.077		.012		
	.158		.297		.163		.028		
2019	.027	2018	.017	2019	.023	2018	.010		
	.102		.065		.088		.038		
	.213		.141		.186		.084		
2515	.004	2514	*	2514	*	2019	.019		
	.016		*		.001		.075		
	.034		.001		.002		.160		
2516	.012	2515	.001	2515	*	2515	*		
	.046		.003		.002		*		
	.100		.007		.004		.001		
2517	.017	2516	.005	2516	.004	2516	.001		
	.062		.020		.017		.005		
	.125		.044		.038		.011		
2518	.015	2517	.021	2517	.007	2517	*		
	.059		.079		.029		*		
	.127		.160		.063		.001		
2519	.002	2518	.018	2518	.011	2518	.009		
	.010		.071		.043		.035		
	.032		.159		.094		.075		
2520	.002	2519	.001	2519	.014	2519	.015		
	.010		.007		.054		.056		
	.029		.034		.117		.119		
3015	*	3014	.001	3017	*	3013	*		
	*		.003		*		.002		
	.002		.006		.001		.004		
		3015	.001			3015	*		
			.002				.001		
			.006				.002		
		3016	.001			3016	*		
			.005				*		
			.010				.001		

TROPICAL CYCLONE STRIKE PROBABILITIES FOR OFFSET CIRCLES WITH RADII OF ONE, TWO, AND THREE DEGREES LATITUDE
TARGET= MISSISSIPPI TEST FACILITY LAT= 30.37N LON= 89.65W
INTERVAL = 96 HOURS

SQUARE	JUNE-JULY	SQUARE	AUGUST	SQUARE	SEPTEMBER	SQUARE	OCTOBER	SQUARE	NOVEMBER-MAY
1013	*	1013	*	1016	*	1515	.001	1517	.001
	*		.002		.001		.006		.003
	.001		.004		.003		.014		.008
1017	.002	1014	.001	1514	*	1516	*	2016	*
	.011		.003		*		.001		.001
	.034		.008		.001		.003		.003
1513	*	1513	*	1515	.001	1517	.002		
	.001		.001		.004		.008		
	.003		.003		.012		.022		
1514	.002	1514	.003	1516	.005	1518	.007		
	.008		.011		.022		.030		
	.019		.027		.053		.067		
1517	.024	1515	.008	1517	.012	1519	.041		
	.093		.034		.048		.152		
	.193		.078		.106		.310		
1518	.005	1516	.011	2013	.001	2013	*		
	.021		.043		.003		.001		
	.049		.098		.007		.002		
2015	.002	1517	.005	2014	*	2014	*		
	.011		.021		.001		*		
	.030		.053		.002		.001		
2017	.013	2014	*	2015	.001	2015	*		
	.050		.002		.005		.001		
	.106		.005		.013		.003		
2018	.023	2015	.004	2016	.010	2016	*		
	.087		.016		.036		.001		
	.183		.039		.083		.002		
2019	.023	2016	.018	2017	.008	2017	.004		
	.089		.069		.032		.015		
	.185		.148		.069		.033		
2515	.006	2017	.028	2018	.015	2018	.007		
	.022		.107		.060		.027		
	.047		.224		.130		.059		
2516	.008	2018	.015	2019	.028	2019	.015		
	.033		.073		.105		.057		
	.071		.188		.217		.122		
2517	.012	2513	.001	2514	*	2515	*		
	.046		.003		.002		.001		
	.095		.007		.004		.002		
		2514	*	2515	.001	2516	.001		
			.001		.004		.005		
			.003		.010		.011		
		2515	.001	2516	.004	2517	*		
			.006		.017		*		
			.014		.037		.001		
		2516	.004	2517	.003	3015	*		
			.015		.014		*		
			.033		.032		.002		
		2517	.014	2518	.006	3016	*		
			.053		.024		*		
			.110		.053		.001		
		2518	.007	2519	.009				
			.028		.036				
			.066		.077				
		2519	.006	3513	*				
			.025		*				
			.063		.001				
		3016	.001	3514	*				
			.003		*				
			.007		.001				

TROPICAL CYCLONE STRIKE PROBABILITIES FOR OFFSET CIRCLES WITH RADII OF ONE, TWO, AND THREE DEGREES LATITUDE
TARGET = HOUSTON, TEXAS LAT = 29.65N LON = 95.28W
INTERVAL = 12 HOURS

SQUARE	JUNE-JULY	SQUARE	AUGUST	SQUARE	SEPTEMBER	SQUARE	OCTOBER	SQUARE	NOVEMBER-MAY
2519	.040	2519	.102	2519	.020	2518	*		
	.421		.469		.206		*		
	.891		.830		.618		.002		
2520	.014	2520	.001	2520	.011	2519	.016		
	.137		.032		.122		.133		
	.478		.299		.460		.443		
				3019	.003				
					.021				
					.083				

TROPICAL CYCLONE STRIKE PROBABILITIES FOR OFFSET CIRCLES WITH RADII OF ONE, TWO, AND THREE DEGREES LATITUDE
TARGET = HOUSTON, TEXAS LAT = 29.65N LON = 95.28W
INTERVAL = 24 HOURS

SQUARE	JUNE-JULY	SQUARE	AUGUST	SQUARE	SEPTEMBER	SQUARE	OCTOBER	SQUARE	NOVEMBER-MAY
2018	*	2020	*	2018	*	2019	*		
	.001		*		*		.002		
	.006		.003		.001		.019		
2019	.001	2518	.001	2019	*	2518	.002		
	.007		.009		.002		.009		
	.039		.055		.017		.027		
2020	*	2519	.196	2517	*	2519	.029		
	*		.556		*		.122		
	.004		.809		.001		.281		
2517	*	2520	.013	2518	.005				
	*		.101		.023				
	.001		.340		.060				
2518	.002			2519	.064				
	.017				.237				
	.059				.461				
2519	.117			2520	.056				
	.380				.220				
	.635				.453				
2520	.032			3017	*				
	.181				*				
	.473				.001				
				3018	.001				
					.004				
					.014				

TROPICAL CYCLONE STRIKE PROBABILITIES FOR OFFSET CIRCLES WITH RADII OF ONE, TWO, AND THREE DEGREES LATITUDE
TARGET = HOUSTON, TEXAS LAT = 29.65N LON = 95.28W
INTERVAL = 36 HOURS

SQUARE	JUNE-JULY	SQUARE	AUGUST	SQUARE	SEPTEMBER	SQUARE	OCTOBER	SQUARE	NOVEMBER-MAY
2018	.006	2017	*	2018	.002	2019	.010		
	.026		.003		.009		.045		
	.072		.010		.034		.121		
2019	.019	2018	.005	2019	.005	2517	*		
	.082		.026		.028		*		
	.196		.083		.090		.001		
2020	.005	2019	.002	2517	.001	2518	.004		
	.031		.013		.006		.018		
	.109		.048		.016		.043		
2517	*	2517	*	2518	.009	2519	.020		
	.002		*		.038		.080		
	.009		.001		.085		.175		
2518	.015	2518	.014	2519	.037				
	.060		.070		.138				
	.134		.188		.282				
2519	.048	2519	.132	2520	.045				
	.174		.421		.167				
	.331		.686		.335				
2520	.016	2520	.015	3017	.001				
	.142		.125		.004				
	.450		.379		.009				
3017	*			3018	.001				
	.001				.004				
	.003				.011				

TROPICAL CYCLONE STRIKE PROBABILITIES FOR OFFSET CIRCLES WITH RADII OF ONE, TWO, AND THREE DEGREES LATITUDE
TARGET = HOUSTON, TEXAS LAT = 29.65N LON = 95.28W
INTERVAL = 48 HOURS

SQUARE	JUNE-JULY	SQUARE	AUGUST	SQUARE	SEPTEMBER	SQUARE	OCTOBER	SQUARE	NOVEMBER-MAY
1518	*	2017	.005	1518	*	1519	*		
	.002		.023		.002		*		
	.007		.058		.007		.002		
2017	*	2018	.020	2017	*	2015	*		
	.002		.083		.001		*		
	.005		.194		.006		.001		
2018	.014	2019	.013	2018	.010	2018	*		
	.056		.053		.041		.001		
	.128		.125		.099		.006		
2019	.031	2517	.001	2019	.016	2019	.021		
	.120		.004		.066		.083		
	.254		.016		.152		.181		
2020	.024	2518	.031	2516	*	2516	*		
	.165		.122		*		*		
	.360		.258		.001		.001		
2517	.002	2519	.093	2517	.003	2517	*		
	.010		.314		.012		.001		
	.027		.553		.028		.003		
2518	.023	2520	.020	2518	.009	2518	.003		
	.083		.106		.036		.012		
	.162		.281		.079		.030		
2519	.022			2519	.024	2519	.010		
	.086				.093		.041		
	.181				.196		.093		
2520	.024			3017	.002				
	.107				.008				
	.260				.017				
3017	.001								
	.002								
	.006								

TROPICAL CYCLONE STRIKE PROBABILITIES FOR OFFSET CIRCLES WITH RADII OF ONE, TWO, AND THREE DEGREES LATITUDE
TARGET = HOUSTON, TEXAS LAT = 29.65N LON = 95.28W
INTERVAL = 72 HOURS

SQUARE	JUNE-JULY	SQUARE	AUGUST	SQUARE	SEPTEMBER	SQUARE	OCTOBER	SQUARE	NOVEMBER-MAY
1516	.001	1515	.001	1516	*	1518	*	1517	*
	.004		.004		*		*		*
	.013		.011		.002		.002		.002
1517	*	1516	.001	1517	*	1519	.009	2516	*
	.002		.003		.001		.038		*
	.012		.009		.005		.094		.001
1518	.003	1517	.003	1518	.010	2015	*		
	.013		.013		.041		*		
	.033		.038		.094		.001		
2017	.003	2016	*	2016	*	2017	*		
	.012		*		.001		.001		
	.029		.002		.005		.004		
2018	.012	2017	.017	2017	.005	2018	.002		
	.047		.066		.019		.011		
	.105		.147		.044		.027		
2019	.018	2018	.035	2018	.015	2019	.012		
	.069		.131		.058		.047		
	.151		.268		.125		.104		
2515	*	2516	*	2019	.017	2516	*		
	.002		.001		.066		*		
	.004		.004		.144		.002		
2516	.002	2517	.004	2516	.001	2518	.004		
	.009		.018		.004		.016		
	.021		.045		.010		.037		
2517	.006	2518	.022	2517	.004	2519	.001		
	.023		.084		.017		.004		
	.050		.172		.037		.014		
2518	.017	2519	.070	2518	.007	3013	*		
	.063		.244		.026		*		
	.124		.443		.058		.001		
2519	.004	3014	*	2519	.011				
	.017		.001		.044				
	.043		.002		.096				
2520	.007	3015	*						
	.033		*						
	.086		.001						
		3016	*						
			*						
			.001						

TROPICAL CYCLONE STRIKE PROBABILITIES FOR OFFSET CIRCLES WITH RADII OF ONE, TWO, AND THREE DEGREES LATITUDE
TARGET = HOUSTON, TEXAS LAT = 29.65N LON = 95.28W
INTERVAL = 96 HOURS

SQUARE	JUNE-JULY	SQUARE	AUGUST	SQUARE	SEPTEMBER	SQUARE	OCTOBER	SQUARE	NOVEMBER-MAY
1013	*	1013	*	1515	*	1515	*	1517	*
	*		*		.001		.001		*
	.001		.002		.003		.003		.001
1017	*	1014	.001	1516	*	1517	*		
	.001		.004		.002		.001		
	.003		.009		.008		.002		
1514	*	1514	*	1517	.005	1518	.002		
	.001		.002		.021		.010		
	.003		.006		.048		.024		
1517	.010	1515	.005	2013	*	1519	.017		
	.040		.021		*		.072		
	.094		.050		.001		.168		
1518	.006	1516	.004	2015	*	2017	.001		
	.026		.019		*		.004		
	.061		.049		.001		.009		
2015	*	1517	.027	2016	.003	2018	.004		
	*		.101		.013		.016		
	.001		.207		.031		.036		
2017	.006	2015	*	2017	.004	2019	.005		
	.023		.001		.016		.018		
	.050		.002		.037		.043		
2018	.007	2016	.002	2018	.014	2516	*		
	.030		.007		.054		.001		
	.070		.017		.117		.002		
2019	.014	2017	.019	2019	.019				
	.056		.075		.074				
	.120		.160		.155				
2515	.002	2018	.055	2515	*				
	.008		.187		*				
	.019		.340		.001				
2516	.003	2513	*	2516	.001				
	.010		*		.006				
	.023		.002		.014				
2517	.007	2515	*	2517	.005				
	.026		*		.018				
	.056		.001		.039				
		2516	.001	2518	.004				
			.005		.016				
			.012		.036				
		2517	.006	2519	.005				
			.024		.020				
			.054		.044				
		2518	.009						
			.034						
			.076						
		2519	.028						
			.106						
			.217						
		3016	*						
			*						
			.001						

TROPICAL CYCLONE STRIKE PROBABILITIES FOR OFFSET CIRCLES WITH RADII OF ONE, TWO, AND THREE DEGREES LATITUDE
TARGET= WALLOPS ISLAND, VIRGINA LAT= 37.85N LON= 75.48W
INTERVAL = 12 HOURS

SQUARE	JUNE-JULY	SQUARE	AUGUST	SQUARE	SEPTEMBER	SQUARE	OCTOBER	SQUARE	NOVEMBER-MAY
3016	.003	3015	*	3015	*	3015	*		
	.039		.002		*		*		
	.187		.038		.011		.006		
3017	*	3016	.005	3016	.017	3016	.013		
	.001		.051		.116		.066		
	.019		.209		.343		.180		
3515	.007	3515	.001	3017	*	3017	*		
	.056		.007		.004		.003		
	.210		.040		.022		.016		
		3516	.088	3514	*	3514	*		
			.378		.001		*		
			.731		.006		.001		
				3515	.014				
					.071				
					.191				
				3516	.078				
					.284				
					.534				

TROPICAL CYCLONE STRIKE PROBABILITIES FOR OFFSET CIRCLES WITH RADII OF ONE, TWO, AND THREE DEGREES LATITUDE
TARGET= WALLOPS ISLAND, VIRGINA LAT= 37.85N LON= 75.48W
INTERVAL = 24 HOURS

SQUARE	JUNE-JULY	SQUARE	AUGUST	SQUARE	SEPTEMBER	SQUARE	OCTOBER	SQUARE	NOVEMBER-MAY
2516	*	3014	*	2515	*	2515	*	2515	.002
	*		.001		.001		*		.009
	.001		.006		.004		.002		.023
3015	.001	3015	.011	2516	*	2516	.001	2516	.004
	.014		.056		.001		.004		.019
	.082		.154		.005		.014		.049
3016	.034	3016	.076	2517	*	2517	*		
	.137		.265		*		.002		
	.297		.487		.001		.008		
3017	.027	3017	.022	3014	*	2518	.001		
	.106		.088		.001		.003		
	.231		.192		.006		.007		
3515	.006	3515	.001	3015	.010	3013	*		
	.030		.004		.056		.001		
	.084		.013		.165		.002		
		3516	.011	3016	.054	3014	.001		
			.064		.196		.005		
			.196		.380		.016		
				3017	.034	3015	.002		
					.124		.012		
					.243		.044		
				3018	.001	3016	.029		
					.007		.110		
					.019		.231		
				3513	*	3017	.028		
					*		.103		
					.001		.208		
				3514	.003	3513	*		
					.011		*		
					.027		.001		
				3515	.008	3514	*		
					.034		.001		
					.076		.005		
				3516	.019				
					.075				
					.158				

TROPICAL CYCLONE STRIKE PROBABILITIES FOR OFFSET CIRCLES WITH RADII OF ONE, TWO, AND THREE DEGREES LATITUDE
TARGET= WALLOPS ISLAND, VIRGINA LAT= 37.85N LON= 75.48W
INTERVAL = 36 HOURS

SQUARE	JUNE-JULY	SQUARE	AUGUST	SQUARE	SEPTEMBER	SQUARE	OCTOBER	SQUARE	NOVEMBER-MAY
2515	*	2014	*	2514	*	2019	*	2514	*
	.004		*		*		*		.001
	.024		.001		.001		.001		.005
2516	*	2514	*	2515	.004	2513	*	2515	.003
	.001		.002		.020		*		.012
	.003		.009		.051		.001		.030
2517	*	2515	.001	2516	.005	2514	.001	2516	.010
	.002		.008		.023		.003		.038
	.013		.031		.056		.008		.087
2518	*	2516	*	2517	.004	2515	.004		
	.001		.002		.019		.015		
	.005		.010		.046		.037		
2519	*	2517	*	2518	*	2516	.007		
	.001		*		.002		.028		
	.003		.001		.006		.065		
3015	.010	3014	.002	2519	*	2517	.006		
	.045		.011		*		.027		
	.108		.029		.001		.067		
3016	.030	3015	.018	3012	*	2518	.003		
	.113		.069		*		.011		
	.237		.148		.001		.026		
3017	.026	3016	.048	3014	.002	2519	*		
	.100		.174		.009		*		
	.208		.335		.024		.001		
3515	.003	3017	.029	3015	.021	3013	.001		
	.013		.115		.083		.005		
	.033		.249		.177		.012		
		3515	*	3016	.019	3014	.002		
			.002		.072		.010		
			.005		.153		.025		
		3516	.001	3017	.031	3015	.005		
			.011		.116		.023		
			.045		.234		.060		
				3018	.011	3016	.019		
					.041		.075		
					.090		.161		
				3513	*	3017	.030		
					*		.114		
					.002		.233		
				3514	.003	3513	.001		
					.014		.003		
					.031		.007		
				3515	.004	3514	*		
					.016		.001		
					.037		.003		
				3516	.009				
					.034				
					.071				

TROPICAL CYCLONE STRIKE PROBABILITIES FOR OFFSET CIRCLES WITH RADII OF ONE, TWO, AND THREE DEGREES LATITUDE
TARGET= WALLOPS ISLAND, VIRGINA LAT= 37.85N LON= 75.48W
INTERVAL = 48 HOURS

SQUARE	JUNE-JULY	SQUARE	AUGUST	SQUARE	SEPTEMBER	SQUARE	OCTOBER	SQUARE	NOVEMBER-MAY
2015	*	2013	*	2017	*	2014	*	1517	*
	*		*		*		.001		*
	.002		.001		.001		.004		.001
2017	*	2014	.001	2018	*	2015	.003	2016	*
	*		.003		*		.012		*
	.001		.009		.001		.030		.001
2515	.007	2514	.002	2512	*	2016	*	2514	.001
	.037		.010		.001		.001		.005
	.107		.026		.002		.005		.013
2516	.001	2515	.007	2513	*	2017	*	2516	.008
	.005		.035		.001		.001		.033
	.015		.092		.002		.005		.074
2517	.004	2516	.008	2514	.001	2018	*		
	.020		.034		.005		.002		
	.060		.089		.014		.006		
2518	.002	2517	.003	2515	.008	2019	*		
	.012		.011		.033		*		
	.035		.025		.077		.001		
2519	.003	3014	.006	2516	.010	2513	*		
	.011		.023		.040		.001		
	.024		.051		.088		.004		
3015	.007	3015	.012	2517	.013	2514	.001		
	.029		.047		.050		.005		
	.066		.100		.107		.013		
3016	.019	3016	.026	2518	.005	2515	.006		
	.076		.097		.019		.024		
	.162		.197		.042		.054		
3017	.013	3017	.020	2519	*	2516	.008		
	.051		.077		.001		.033		
	.110		.168		.003		.073		
		3515	*	3012	*	2517	.012		
			.001		.001		.048		
			.002		.002		.107		
				3014	.004	2518	.007		
					.014		.028		
					.033		.062		
				3015	.015	2519	.001		
					.058		.004		
					.123		.010		
				3016	.004	3013	.002		
					.016		.010		
					.036		.022		
				3017	.016	3014	.003		
					.062		.013		
					.133		.029		
				3018	.010	3015	.005		
					.043		.022		
					.101		.053		
				3513	.001	3016	.013		
					.002		.052		
					.006		.114		
				3514	.003	3017	.016		
					.013		.065		
					.030		.143		
				3515	.001	3513	*		
					.005		.001		
					.013		.002		
						3514	*		
							*		
							.001		

TROPICAL CYCLONE STRIKE PROBABILITIES FOR OFFSET CIRCLES WITH RADII OF ONE, TWO, AND THREE DEGREES LATITUDE
TARGET= WALLOPS ISLAND, VIRGINA LAT= 37.85N LON= 75.48W
INTERVAL = 72 HOURS

SQUARE	JUNE-JULY	SQUARE	AUGUST	SQUARE	SEPTEMBER	SQUARE	OCTOBER	SQUARE	NOVEMBER-MAY
1513	*	2013	.002	1516	*	1513	*	1517	.001
	.001		.010		*		*		.006
	.002		.026		.001		.002		.014
1514	*	2014	.003	1517	*	1514	.002	2016	.001
	.001		.013		*		.010		.004
	.003		.033		.001		.026		.010
2015	.001	2015	.001	2012	*	1515	.001	2516	.007
	.008		.003		.001		.006		.030
	.029		.009		.003		.014		.066
2017	.002	2016	*	2013	.001	1518	.001		
	.009		.001		.003		.004		
	.022		.003		.009		.009		
2018	.001	2017	*	2014	.003	2013	*		
	.004		*		.012		*		
	.009		.001		.028		.002		
2019	.001	2513	.003	2015	.001	2014	.003		
	.003		.011		.005		.013		
	.007		.027		.016		.032		
2515	.021	2514	.006	2016	.001	2015	.007		
	.083		.023		.006		.028		
	.176		.052		.017		.063		
2516	.005	2515	.014	2017	.005	2016	.001		
	.022		.057		.020		.005		
	.053		.125		.044		.015		
2517	.020	2516	.023	2018	.002	2017	.004		
	.074		.085		.007		.018		
	.150		.176		.017		.042		
2518	.011	2517	.008	2019	*	2018	.004		
	.044		.031		*		.015		
	.093		.071		.001		.034		
2519	.020	2518	.003	2511	*	2019	.002		
	.074		.010		.001		.009		
	.147		.023		.003		.021		
3015	.004	3014	.004	2512	*	2513	.001		
	.016		.017		.002		.003		
	.036		.037		.005		.007		
3016	.008	3015	.006	2513	.001	2514	.001		
	.031		.022		.005		.002		
	.069		.049		.013		.006		
		3016	.009	2514	.006	2515	.005		
			.037		.023		.020		
			.079		.053		.044		
				2515	.007	2516	.007		
					.030		.027		
					.066		.059		
				2516	.010	2517	.006		
					.038		.025		
					.082		.057		
				2517	.010	2518	.008		
					.038		.030		
					.082		.064		
				2518	.008	2519	.016		
					.033		.061		
					.072		.128		
				2519	.003	3013	.003		
					.011		.011		
					.025		.025		
				3012	*	3014	.001		
					*		.004		
					.001		.009		
				3013	*	3015	.004		
					.001		.018		
					.003		.040		
				3014	.002	3016	.005		
					.009		.019		
					.020		.042		
				3015	.005				
					.018				
					.039				
				8017	.010				
					.036				
					.069				

TROPICAL CYCLONE STRIKE PROBABILITIES FOR OFFSET CIRCLES WITH RADII OF ONE, TWO, AND THREE DEGREES LATITUDE
TARGET= WALLOPS ISLAND, VIRGINA LAT= 37.85N LON= 75.48W
INTERVAL = 72 HOURS

SQUARE	JUNE-JULY	SQUARE	AUGUST	SQUARE	SEPTEMBER	SQUARE	OCTOBER	SQUARE	NOVEMBER-MAY
				3513	.002				
					.007				
					.017				
				3514	.003				
					.011				
					.025				
				3515	.001				
					.004				
					.008				

TROPICAL CYCLONE STRIKE PROBABILITIES FOR OFFSET CIRCLES WITH RADII OF ONE, TWO, AND THREE DEGREES LATITUDE
TARGET= WALLOPS ISLAND, VIRGINA LAT= 37.85N LON= 75.48W
INTERVAL = 96 HOURS

SQUARE	JUNE-JULY	SQUARE	AUGUST	SQUARE	SEPTEMBER	SQUARE	OCTOBER	SQUARE	NOVEMBER-MAY
1513	.002	1011	*	1511	*	1016	*	1516	*
	.010		*		*		*		*
	.024		.002		.001		.001		.001
1514	.001	1510	*	1512	*	1513	*	1517	.003
	.006		*		*		.002		.013
	.015		.001		.001		.005		.030
1517	.001	1511	*	1513	*	1515	.005	2016	.001
	.005		*		*		.018		.004
	.014		.001		.001		.040		.009
2015	.005	1512	.001	1514	*	1516	*		
	.024		.003		*		.002		
	.064		.008		.002		.004		
2017	.006	1513	*	1516	.002	1517	.001		
	.023		*		.010		.006		
	.052		.001		.023		.014		
2018	.004	1514	*	1517	.002	1518	.003		
	.017		*		.009		.013		
	.037		.001		.020		.029		
2019	.005	2012	*	2011	*	2013	.002		
	.018		*		.001		.009		
	.039		.001		.003		.019		
2515	.014	2013	.003	2012	.003	2014	.004		
	.054		.013		.013		.015		
	.113		.031		.029		.033		
2516	.012	2014	.006	2013	.005	2015	.004		
	.047		.024		.019		.016		
	.102		.055		.043		.036		
2517	.016	2015	.008	2014	.004	2016	.004		
	.061		.031		.017		.015		
	.127		.069		.041		.035		
3016	.002	2016	.004	2015	.005	2017	.007		
	.008		.017		.022		.028		
	.019		.043		.050		.062		
		2017	.001	2016	.009	2018	.006		
			.003		.036		.022		
			.008		.079		.049		
		2018	*	2017	.008	2019	.009		
			.002		.030		.036		
			.005		.067		.078		
		2513	.005	2018	.003	2513	*		
			.018		.010		*		
			.040		.024		.002		
		2514	.008	2019	*	2514	.001		
			.029		*		.004		
			.064		.002		.010		
		2515	.014	2511	.001	2515	.005		
			.054		.002		.018		
			.112		.005		.040		
		2516	.010	2512	.001	2516	.005		
			.040		.003		.018		
			.086		.007		.041		
		2517	.004	2513	.002	2517	.004		
			.016		.009		.015		
			.040		.021		.033		

TROPICAL CYCLONE STRIKE PROBABILITIES FOR OFFSET CIRCLES WITH RADII OF ONE, TWO, AND THREE DEGREES LATITUDE
TARGET= WALLOPS ISLAND, VIRGINA LAT= 37.85N LON= 75.48W
INTERVAL = 96 HOURS

SQUARE	JUNE-JULY	SQUARE	AUGUST	SQUARE	SEPTEMBER	SQUARE	OCTOBER	SQUARE	NOVEMBER-MAY
		2518	.010	2514	.006	3014	*		
			.037		.022		.001		
			.079		.049		.002		
		3016	.006	2515	.007	3015	.003		
			.024		.029		.014		
			.052		.063		.032		
				2516	.008	3016	.002		
					.031		.009		
					.067		.020		
				2517	.006				
					.024				
					.055				
				2518	.008				
					.032				
					.071				
				2519	.004				
					.017				
					.040				
				3012	*				
					*				
					.001				
				3013	.001				
					.004				
					.010				
				3014	.002				
					.007				
					.017				
				3015	*				
					.002				
					.004				
				3513	.002				
					.007				
					.016				
				3514	.003				
					.013				
					.029				
				3515	.001				
					.005				
					.011				

APPENDIX II

Probabilities for Five-Degree Latitude-Longitude Squares (24- and 48-Hour Time Intervals for September).

TROPICAL CYCLONE STRIKE PROBABILITIES FOR CIRCULAR AREAS WITH RADII OF ONE, TWO, AND THREE DEGREES LATITUDE
SEASON - SEPTEMBER TIME INTERVAL - 24 HOURS

5DEG ID = 1006 INITIAL POSITION = 12.5 N 027.5 W NUMBER OF OBS = 15

LATITUDE	LONGITUDE 107.5	102.5	97.5	92.5	87.5	82.5	77.5	72.5	67.5	62.5	57.5	52.5	47.5	42.5	37.5	32.5	27.5	22.5	17.5	12.5
42.5																				
37.5																				
32.5																				
27.5																				
22.5																				
17.5																*	*			
																*	.003			
																.013	.038			
12.5															*	.164	.015	*		
															.002	.461	.130	*		
															.014	.711	.386	.001		
07.5																				
02.5																				

5DEG ID = 1007 INITIAL POSITION = 12.5 N 032.5 W NUMBER OF OBS = 13

LATITUDE	LONGITUDE 107.5	102.5	97.5	92.5	87.5	82.5	77.5	72.5	67.5	62.5	57.5	52.5	47.5	42.5	37.5	32.5	27.5	22.5	17.5	12.5
42.5																				
37.5																				
32.5																				
27.5																				
22.5																				
17.5															.011	*				
															.063	*				
															.197	.001				
12.5															.177	*				
															.610	.002				
															.890	.050				
07.5															*					
															.001					
															.012					
02.5																				

TROPICAL CYCLONE STRIKE PROBABILITIES FOR CIRCULAR AREAS WITH RADII OF ONE, TWO, AND THREE DEGREES LATITUDE
SEASON - SEPTEMBER TIME INTERVAL - 24 HOURS

5DEG ID = 1008 INITIAL POSITION = 12.5 N 037.5 W NUMBER OF OBS = 18

LATITUDE	LONGITUDE 107.5	102.5	97.5	92.5	87.5	82.5	77.5	72.5	67.5	62.5	57.5	52.5	47.5	42.5	37.5	32.5	27.5	22.5	17.5	12.5
42.5																				
37.5																				
32.5																				
27.5																				
22.5																				
17.5													*	.004	.001					
													*	.038	.007					
													.002	.174	.038					
12.5													.001	.124	.006					
													.006	.436	.042					
													.032	.750	.160					
07.5														*						
														*						
														.001						
02.5																				

5DEG ID = 1009 INITIAL POSITION = 12.5 N 042.5 W NUMBER OF OBS = 19

LATITUDE	LONGITUDE 107.5	102.5	97.5	92.5	87.5	82.5	77.5	72.5	67.5	62.5	57.5	52.5	47.5	42.5	37.5	32.5	27.5	22.5	17.5	12.5
42.5																				
37.5																				
32.5																				
27.5																				
22.5																				
17.5													*	.003	*					
													*	.043	.001					
													.005	.229	.018					
12.5													*	.075	.005					
													.002	.375	.038					
													.020	.757	.148					
07.5																				
02.5																				

TROPICAL CYCLONE STRIKE PROBABILITIES FOR CIRCULAR AREAS WITH RADII OF ONE, TWO, AND THREE DEGREES LATITUDE
SEASON - SEPTEMBER TIME INTERVAL - 24 HOURS

5DEG ID = 1010 INITIAL POSITION = 12.5 N 047.5 W NUMBER OF OBS = 22

LATITUDE	LONGITUDE 107.5	102.5	97.5	92.5	87.5	82.5	77.5	72.5	67.5	62.5	57.5	52.5	47.5	42.5	37.5	32.5	27.5	22.5	17.5	12.5
42.5																				
37.5																				
32.5																				
27.5																				
22.5																				
17.5											.004	.017	*							
											.019	.131	.001							
											.058	.401	.013							
12.5											*	.023	.016							
											*	.192	.069							
											.009	.555	.174							
07.5																				
02.5																				

5DEG ID = 1011 INITIAL POSITION = 12.5 N 052.5 W NUMBER OF OBS = 15

LATITUDE	LONGITUDE 107.5	102.5	97.5	92.5	87.5	82.5	77.5	72.5	67.5	62.5	57.5	52.5	47.5	42.5	37.5	32.5	27.5	22.5	17.5	12.5
42.5																				
37.5																				
32.5																				
27.5																				
22.5																				
17.5											*	.010	*							
											.003	.073	.003							
											.019	.264	.022							
12.5											.001	.089	.005							
											.008	.365	.034							
											.044	.704	.120							
07.5																				
02.5																				

TROPICAL CYCLONE STRIKE PROBABILITIES FOR CIRCULAR AREAS WITH RADII OF ONE, TWO, AND THREE DEGREES LATITUDE
SEASON - SEPTEMBER TIME INTERVAL - 24 HOURS

5DEG ID = 1012 INITIAL POSITION = 12.5 N 057.5 W NUMBER OF OBS = 22

LATITUDE	LONGITUDE 107.5	102.5	97.5	92.5	87.5	82.5	77.5	72.5	67.5	62.5	57.5	52.5	47.5	42.5	37.5	32.5	27.5	22.5	17.5	12.5
42.5																				
37.5																				
32.5																				
27.5																				
22.5																				
17.5										.002	*									
										.022	*									
										.121	.003									
12.5									*	.245	*									
									*	.681	.006									
									.008	.928	.062									
07.5																				
02.5																				

5DEG ID = 1013 INITIAL POSITION = 12.5 N 062.5 W NUMBER OF OBS = 27

LATITUDE	LONGITUDE 107.5	102.5	97.5	92.5	87.5	82.5	77.5	72.5	67.5	62.5	57.5	52.5	47.5	42.5	37.5	32.5	27.5	22.5	17.5	12.5
42.5																				
37.5																				
32.5																				
27.5																				
22.5																				
17.5										*										
										*										
										.011										
12.5									*	.210	.007									
									.005	.684	.048									
									.033	.919	.176									
07.5																				
02.5																				

TROPICAL CYCLONE STRIKE PROBABILITIES FOR CIRCULAR AREAS WITH RADII OF ONE, TWO, AND THREE DEGREES LATITUDE
SEASON - SEPTEMBER TIME INTERVAL - 24 HOURS

5DEG ID = 1014 INITIAL POSITION = 12.5 N 067.5 W NUMBER OF OBS = 17

LATITUDE	LONGITUDE 107.5	102.5	97.5	92.5	87.5	82.5	77.5	72.5	67.5	62.5	57.5	52.5	47.5	42.5	37.5	32.5	27.5	22.5	17.5	12.5
42.5																				
37.5																				
32.5																				
27.5																				
22.5																				
17.5									*											
									*											
									.007											
12.5								*	.303	.001										
								*	.821	.019										
								.006	.978	.127										
07.5																				
02.5																				

5DEG ID = 1015 INITIAL POSITION = 12.5 N 072.5 W NUMBER OF OBS = 15

LATITUDE	LONGITUDE 107.5	102.5	97.5	92.5	87.5	82.5	77.5	72.5	67.5	62.5	57.5	52.5	47.5	42.5	37.5	32.5	27.5	22.5	17.5	12.5
42.5																				
37.5																				
32.5																				
27.5																				
22.5																				
17.5																				
12.5									.285	.004										
									.735	.052										
									.948	.262										
07.5																				
02.5																				

TROPICAL CYCLONE STRIKE PROBABILITIES FOR CIRCULAR AREAS WITH RADII OF ONE, TWO, AND THREE DEGREES LATITUDE
SEASON - SEPTEMBER TIME INTERVAL - 24 HOURS

5DEG ID = 1016 INITIAL POSITION = 12.5 N 077.5 W NUMBER OF OBS = 17

LATITUDE	LONGITUDE 107.5	102.5	97.5	92.5	87.5	82.5	77.5	72.5	67.5	62.5	57.5	52.5	47.5	42.5	37.5	32.5	27.5	22.5	17.5	12.5
42.5																				
37.5																				
32.5																				
27.5																				
22.5																				
17.5						*	*													
						.005	.006													
						.051	.040													
12.5					*	.143	.012													
					*	.454	.093													
					.005	.744	.319													
07.5						*														
						*														
						.004														
02.5																				

5DEG ID = 1017 INITIAL POSITION = 12.5 N 082.5 W NUMBER OF OBS = 11

LATITUDE	LONGITUDE 107.5	102.5	97.5	92.5	87.5	82.5	77.5	72.5	67.5	62.5	57.5	52.5	47.5	42.5	37.5	32.5	27.5	22.5	17.5	12.5
42.5																				
37.5																				
32.5																				
27.5																				
22.5																				
17.5						*	.010	*												
						.015	.069	*												
						.140	.217	.001												
12.5					*	.058	.002													
					.001	.242	.039													
					.005	.500	.245													
07.5																				
02.5																				

TROPICAL CYCLONE STRIKE PROBABILITIES FOR CIRCULAR AREAS WITH RADII OF ONE, TWO, AND THREE DEGREES LATITUDE
SEASON - SEPTEMBER TIME INTERVAL - 24 HOURS

5DEG ID = 1506 INITIAL POSITION = 17.5 N 027.5 W NUMBER OF OBS = 10

LATITUDE	LONGITUDE 107.5	102.5	97.5	92.5	87.5	82.5	77.5	72.5	67.5	62.5	57.5	52.5	47.5	42.5	37.5	32.5	27.5	22.5	17.5	12.5
42.5																				
37.5																				
32.5																				
27.5																				
22.5																* .001	* .014	* .001		
17.5															.005 .019 .050	.084 .370 .591	.010 .226 .486	* .004 .020		
12.5																				
07.5																				
02.5																				

5DEG ID = 1507 INITIAL POSITION = 17.5 N 032.5 W NUMBER OF OBS = 15

LATITUDE	LONGITUDE 107.5	102.5	97.5	92.5	87.5	82.5	77.5	72.5	67.5	62.5	57.5	52.5	47.5	42.5	37.5	32.5	27.5	22.5	17.5	12.5
42.5																				
37.5																				
32.5																				
27.5																				
22.5															.003 .036 .180	.034 .126 .252	.001 .006 .018			
17.5														.004 .026 .081	.082 .291 .521	.001 .019 .121				
12.5														* .001 .006	* * .002					
07.5																				
02.5																				

TROPICAL CYCLONE STRIKE PROBABILITIES FOR CIRCULAR AREAS WITH RADII OF ONE, TWO, AND THREE DEGREES LATITUDE
SEASON - SEPTEMBER TIME INTERVAL - 24 HOURS

5DEG ID = 1508 INITIAL POSITION = 17.5 N 037.5 W NUMBER OF OBS = 21

LATITUDE	LONGITUDE 107.5	102.5	97.5	92.5	87.5	82.5	77.5	72.5	67.5	62.5	57.5	52.5	47.5	42.5	37.5	32.5	27.5	22.5	17.5	12.5
42.5																				
37.5																				
32.5																				
27.5																				
22.5														.002 .041 .246	* .004 .028					
17.5												* .006 .044	.117 .484 .828	* .002 .037						
12.5																				
07.5																				
02.5																				

5DEG ID = 1509 INITIAL POSITION = 17.5 N 042.5 W NUMBER OF OBS = 30

LATITUDE	LONGITUDE 107.5	102.5	97.5	92.5	87.5	82.5	77.5	72.5	67.5	62.5	57.5	52.5	47.5	42.5	37.5	32.5	27.5	22.5	17.5	12.5
42.5																				
37.5																				
32.5																				
27.5																				
22.5													* .001 .009	.006 .054 .233	.001 .007 .037					
17.5													.003 .022 .083	.101 .398 .736	.002 .020 .094					
12.5																				
07.5																				
02.5																				

TROPICAL CYCLONE STRIKE PROBABILITIES FOR CIRCULAR AREAS WITH RADII OF ONE, TWO, AND THREE DEGREES LATITUDE
SEASON - SEPTEMBER TIME INTERVAL - 24 HOURS

5DEG ID = 1510 INITIAL POSITION = 17.5 N 047.5 W NUMBER OF OBS = 47

LATITUDE	LONGITUDE 107.5	102.5	97.5	92.5	87.5	82.5	77.5	72.5	67.5	62.5	57.5	52.5	47.5	42.5	37.5	32.5	27.5	22.5	17.5	12.5
42.5																				
37.5																				
32.5																				
27.5																				
22.5												*	.019	.004						
												*	.111	.029						
												.004	.323	.106						
17.5												*	.078	.004						
												.003	.303	.033						
												.018	.596	.144						
12.5													*							
													*							
													.001							
07.5																				
02.5																				

5DEG ID = 1511 INITIAL POSITION = 17.5 N 052.5 W NUMBER OF OBS = 57

LATITUDE	LONGITUDE 107.5	102.5	97.5	92.5	87.5	82.5	77.5	72.5	67.5	62.5	57.5	52.5	47.5	42.5	37.5	32.5	27.5	22.5	17.5	12.5
42.5																				
37.5																				
32.5																				
27.5																				
22.5												*	.012	.004						
												*	.075	.027						
												.004	.239	.098						
17.5												*	.091	.010						
												.004	.332	.062						
												.021	.620	.207						
12.5													*							
													*							
													.003							
07.5																				
02.5																				

TROPICAL CYCLONE STRIKE PROBABILITIES FOR CIRCULAR AREAS WITH RADII OF ONE, TWO, AND THREE DEGREES LATITUDE
SEASON - SEPTEMBER TIME INTERVAL - 24 HOURS

5DEG ID = 1512 INITIAL POSITION = 17.5 N 057.5 W NUMBER OF OBS = 68

LATITUDE	LONGITUDE																		
	107.5	102.5	97.5	92.5	87.5	82.5	77.5	72.5	67.5	62.5	57.5	52.5	47.5	42.5	37.5	32.5	27.5	22.5	17.5	12.5
42.5																				
37.5																				
32.5																				
27.5																				
22.5									*	.001	.002									
									*	.027	.022									
									.001	.178	.106									
17.5									.001	.068	.006									
									.005	.311	.059									
									.025	.628	.237									
12.5																				
07.5																				
02.5																				

5DEG ID = 1513 INITIAL POSITION = 17.5 N 062.5 W NUMBER OF OBS = 61

LATITUDE	LONGITUDE																		
	107.5	102.5	97.5	92.5	87.5	82.5	77.5	72.5	67.5	62.5	57.5	52.5	47.5	42.5	37.5	32.5	27.5	22.5	17.5	12.5
42.5																				
37.5																				
32.5																				
27.5																				
22.5									*	.004	.001									
									*	.050	.011									
									.001	.246	.036									
17.5									*	.112	.001									
									.003	.422	.013									
									.021	.749	.099									
12.5																				
07.5																				
02.5																				

TROPICAL CYCLONE STRIKE PROBABILITIES FOR CIRCULAR AREAS WITH RADII OF ONE, TWO, AND THREE DEGREES LATITUDE
SEASON - SEPTEMBER TIME INTERVAL - 24 HOURS

5DEG ID = 1514 INITIAL POSITION = 17.5 N 067.5 W NUMBER OF OBS = 54

LATITUDE	LONGITUDE 107.5	102.5	97.5	92.5	87.5	82.5	77.5	72.5	67.5	62.5	57.5	52.5	47.5	42.5	37.5	32.5	27.5	22.5	17.5	12.5
42.5																				
37.5																				
32.5																				
27.5																				
22.5									*	.003										
									.011	.027										
									.126	.102										
17.5								*	.131	.001										
								.003	.438	.019										
								.023	.717	.157										
12.5																				
07.5																				
02.5																				

5DEG ID = 1515 INITIAL POSITION = 17.5 N 072.5 W NUMBER OF OBS = 36

LATITUDE	LONGITUDE 107.5	102.5	97.5	92.5	87.5	82.5	77.5	72.5	67.5	62.5	57.5	52.5	47.5	42.5	37.5	32.5	27.5	22.5	17.5	12.5
42.5																				
37.5																				
32.5																				
27.5																				
22.5								*	.001	*										
								*	.018	.001										
								.002	.116	.012										
17.5								*	.170	.005										
								.005	.550	.042										
								.033	.852	.164										
12.5									*											
									*											
									.001											
07.5																				
02.5																				

TROPICAL CYCLONE STRIKE PROBABILITIES FOR CIRCULAR AREAS WITH RADII OF ONE, TWO, AND THREE DEGREES LATITUDE
SEASON - SEPTEMBER TIME INTERVAL - 24 HOURS

5DEG ID = 1516 INITIAL POSITION = 17.5 N 077.5 W NUMBER OF OBS = 45

LATITUDE	LONGITUDE 107.5	102.5	97.5	92.5	87.5	82.5	77.5	72.5	67.5	62.5	57.5	52.5	47.5	42.5	37.5	32.5	27.5	22.5	17.5	12.5
42.5																				
37.5																				
32.5																				
27.5																				
22.5					*	.003	.003													
					*	.035	.021													
					.002	.166	.085													
17.5					.001	.106	.009													
					.008	.377	.065													
					.034	.672	.223													
12.5						*														
						*														
						.001														
07.5																				
02.5																				

5DEG ID = 1517 INITIAL POSITION = 17.5 N 082.5 W NUMBER OF OBS = 56

LATITUDE	LONGITUDE 107.5	102.5	97.5	92.5	87.5	82.5	77.5	72.5	67.5	62.5	57.5	52.5	47.5	42.5	37.5	32.5	27.5	22.5	17.5	12.5
42.5																				
37.5																				
32.5																				
27.5																				
22.5						.002	.012	*												
						.026	.069	.001												
						.133	.204	.004												
17.5					*	.066	.017	*												
					.001	.245	.115	*												
					.008	.483	.354	.001												
12.5						*														
						*														
						.002														
07.5																				
02.5																				

TROPICAL CYCLONE STRIKE PROBABILITIES FOR CIRCULAR AREAS WITH RADII OF ONE, TWO, AND THREE DEGREES LATITUDE
SEASON - SEPTEMBER TIME INTERVAL - 24 HOURS

5DEG ID = 1518 INITIAL POSITION = 17.5 N 087.5 W NUMBER OF OBS = 31

LATITUDE	107.5	102.5	97.5	92.5	87.5	82.5	77.5	72.5	67.5	62.5	57.5	52.5	47.5	42.5	37.5	32.5	27.5	22.5	17.5	12.5
42.5										LONGITUDE										
37.5																				
32.5																				
27.5																				
22.5			*	.002	.004	*														
			*	.025	.029	*														
			.001	.123	.122	.002														
17.5			*	.070	.033	*														
			.003	.268	.162	.001														
			.015	.529	.397	.005														
12.5				*																
				*																
				.001																
07.5																				
02.5																				

5DEG ID = 1519 INITIAL POSITION = 17.5 N 092.5 W NUMBER OF OBS = 10

LATITUDE	107.5	102.5	97.5	92.5	87.5	82.5	77.5	72.5	67.5	62.5	57.5	52.5	47.5	42.5	37.5	32.5	27.5	22.5	17.5	12.5
42.5										LONGITUDE										
37.5																				
32.5																				
27.5				*	*															
				*	*															
				.001	.002															
22.5			*	.009	.013	.001														
			.001	.042	.055	.004														
			.006	.112	.136	.012														
17.5			.001	.054	.051	.001														
			.008	.199	.193	.008														
			.027	.396	.390	.026														
12.5			*	.003	.001	*														
			.001	.014	.010	*														
			.003	.048	.036	.001														
07.5																				
02.5																				

TROPICAL CYCLONE STRIKE PROBABILITIES FOR CIRCULAR AREAS WITH RADII OF ONE, TWO, AND THREE DEGREES LATITUDE
SEASON - SEPTEMBER TIME INTERVAL - 24 HOURS

5DEG ID = 2010 INITIAL POSITION = 22.5 N 047.5 W NUMBER OF OBS = 16

LATITUDE	LONGITUDE 107.5	102.5	97.5	92.5	87.5	82.5	77.5	72.5	67.5	62.5	57.5	52.5	47.5	42.5	37.5	32.5	27.5	22.5	17.5	12.5
42.5																				
37.5																				
32.5											*	.002	.004	.001						
											.001	.011	.019	.004						
											.003	.036	.054	.011						
27.5										*	.003	.054	.052	.004	*					
										*	.017	.200	.192	.018	*					
										.001	.051	.398	.378	.050	.001					
22.5											.002	.015	.006	*						
											.010	.064	.030	.001						
											.029	.159	.092	.006						
17.5												*								
												*								
												.001								
12.5																				
07.5																				
02.5																				

5DEG ID = 2011 INITIAL POSITION = 22.5 N 052.5 W NUMBER OF OBS = 34

LATITUDE	LONGITUDE 107.5	102.5	97.5	92.5	87.5	82.5	77.5	72.5	67.5	62.5	57.5	52.5	47.5	42.5	37.5	32.5	27.5	22.5	17.5	12.5
42.5																				
37.5																				
32.5											*	*	*							
											.001	.003	*							
											.007	.012	.001							
27.5										.001	.042	.046	.002							
										.006	.169	.172	.008							
										.026	.367	.348	.027							
22.5										.002	.028	.010	*							
										.009	.118	.054	.001							
										.030	.271	.161	.005							
17.5											*									
											*									
											.002									
12.5																				
07.5																				
02.5																				

TROPICAL CYCLONE STRIKE PROBABILITIES FOR CIRCULAR AREAS WITH RADII OF ONE, TWO, AND THREE DEGREES LATITUDE
SEASON - SEPTEMBER TIME INTERVAL - 24 HOURS

5DEG ID = 2012 INITIAL POSITION = 22.5 N 057.5 W NUMBER OF OBS = 47

LATITUDE	LONGITUDE 107.5	102.5	97.5	92.5	87.5	82.5	77.5	72.5	67.5	62.5	57.5	52.5	47.5	42.5	37.5	32.5	27.5	22.5	17.5	12.5
42.5																				
37.5																				
32.5										* .001	* .002									
27.5									* .001 .008	.021 .106 .287	.033 .133 .294	.001 .004 .014								
22.5									.001 .007 .026	.046 .182 .386	.012 .072 .224	* * .003								
17.5										* .002										
12.5																				
07.5																				
02.5																				

5DEG ID = 2013 INITIAL POSITION = 22.5 N 062.5 W NUMBER OF OBS = 73

LATITUDE	LONGITUDE 107.5	102.5	97.5	92.5	87.5	82.5	77.5	72.5	67.5	62.5	57.5	52.5	47.5	42.5	37.5	32.5	27.5	22.5	17.5	12.5
42.5																				
37.5																				
32.5										* .001										
27.5									* .001 .005	.019 .110 .318	.036 .151 .344	* .003 .012								
22.5									* .003 .013	.029 .135 .335	.008 .058 .216	* * .002								
17.5																				
12.5																				
07.5																				
02.5																				

TROPICAL CYCLONE STRIKE PROBABILITIES FOR CIRCULAR AREAS WITH RADII OF ONE, TWO, AND THREE DEGREES LATITUDE
SEASON - SEPTEMBER TIME INTERVAL - 24 HOURS

5DEG ID = 2014 INITIAL POSITION = 22.5 N 067.5 W NUMBER OF OBS = 80

LATITUDE	107.5	102.5	97.5	92.5	87.5	82.5	77.5	72.5	67.5	62.5	57.5	52.5	47.5	42.5	37.5	32.5	27.5	22.5	17.5	12.5
42.5																				
37.5																				
32.5																				
27.5									*	.013	.024	*								
									*	.081	.114	.001								
									.002	.261	.292	.005								
22.5									*	.037	.014	*								
									.001	.163	.091	*								
									.007	.383	.290	.002								
17.5																				
12.5																				
07.5																				
02.5																				

5DEG ID = 2015 INITIAL POSITION = 22.5 N 072.5 W NUMBER OF OBS = 68

LATITUDE	107.5	102.5	97.5	92.5	87.5	82.5	77.5	72.5	67.5	62.5	57.5	52.5	47.5	42.5	37.5	32.5	27.5	22.5	17.5	12.5
42.5																				
37.5																				
32.5																				
27.5										.005	.030	*								
										.046	.136	.001								
										.208	.327	.006								
22.5									*	.042	.008									
									*	.175	.073									
									.004	.392	.292									
17.5																				
12.5																				
07.5																				
02.5																				

TROPICAL CYCLONE STRIKE PROBABILITIES FOR CIRCULAR AREAS WITH RADII OF ONE, TWO, AND THREE DEGREES LATITUDE
SEASON - SEPTEMBER TIME INTERVAL - 24 HOURS

5DEG ID = 2016 INITIAL POSITION = 22.5 N 077.5 W NUMBER OF OBS = 39

LATITUDE	LONGITUDE																	
	107.5	102.5	97.5	92.5	87.5	82.5	77.5	72.5	67.5	62.5	57.5	52.5	47.5	42.5	37.5	32.5	27.5	22.5	17.5	12.5
42.5																				
37.5																				
32.5																				
27.5							*	.004	*											
							.006	.046	.003											
							.068	.197	.013											
22.5						.001	.072	.015	*											
						.006	.264	.135	.001											
						.022	.490	.430	.008											
17.5																				
12.5																				
07.5																				
02.5																				

5DEG ID = 2017 INITIAL POSITION = 22.5 N 082.5 W NUMBER OF OBS = 52

LATITUDE	LONGITUDE																	
	107.5	102.5	97.5	92.5	87.5	82.5	77.5	72.5	67.5	62.5	57.5	52.5	47.5	42.5	37.5	32.5	27.5	22.5	17.5	12.5
42.5																				
37.5																				
32.5																				
27.5							.002	.029	.001											
							.021	.149	.008											
							.120	.377	.029											
22.5						*	.031	.015	*											
						.001	.133	.118	*											
						.004	.307	.394	.006											
17.5																				
12.5																				
07.5																				
02.5																				

TROPICAL CYCLONE STRIKE PROBABILITIES FOR CIRCULAR AREAS WITH RADII OF ONE, TWO, AND THREE DEGREES LATITUDE
SEASON - SEPTEMBER TIME INTERVAL - 24 HOURS

50EG ID = 2018 INITIAL POSITION = 22.5 N 087.5 W NUMBER OF OBS = 54

LATITUDE	LONGITUDE 107.5	102.5	97.5	92.5	87.5	82.5	77.5	72.5	67.5	62.5	57.5	52.5	47.5	42.5	37.5	32.5	27.5	22.5	17.5	12.5
42.5																				
37.5																				
32.5					* .001 .006	* * .001														
27.5				.005 .040 .162	.051 .184 .359	* .003 .015														
22.5			* * .004	.052 .193 .384	.014 .094 .302	* * .001														
17.5				* .002 .012	* * .001															
12.5																				
07.5																				
02.5																				

50EG ID = 2019 INITIAL POSITION = 22.5 N 092.5 W NUMBER OF OBS = 45

LATITUDE	LONGITUDE 107.5	102.5	97.5	92.5	87.5	82.5	77.5	72.5	67.5	62.5	57.5	52.5	47.5	42.5	37.5	32.5	27.5	22.5	17.5	12.5
42.5																				
37.5																				
32.5																				
27.5				.001 .012 .063	.025 .122 .311	.004 .021 .060														
22.5			* .001 .005	.034 .131 .278	.047 .216 .493	* .005 .031														
17.5				* * .003	* * .001															
12.5																				
07.5																				
02.5																				

TROPICAL CYCLONE STRIKE PROBABILITIES FOR CIRCULAR AREAS WITH RADII OF ONE, TWO, AND THREE DEGREES LATITUDE
SEASON - SEPTEMBER TIME INTERVAL - 24 HOURS

5DEG ID = 2020 INITIAL POSITION = 22.5 N 097.5 W NUMBER OF OBS = 14

LATITUDE	LONGITUDE 107.5	102.5	97.5	92.5	87.5	82.5	77.5	72.5	67.5	62.5	57.5	52.5	47.5	42.5	37.5	32.5	27.5	22.5	17.5	12.5
42.5																				
37.5																				
32.5																				
27.5			.011	*																
			.043	.002																
			.111	.029																
22.5			.004	.088																
			.070	.388																
			.355	.699																
17.5				.003	*															
				.024	*															
				.084	.001															
12.5																				
07.5																				
02.5																				

5DEG ID = 2507 INITIAL POSITION = 27.5 N 032.5 W NUMBER OF OBS = 10

LATITUDE	LONGITUDE 107.5	102.5	97.5	92.5	87.5	82.5	77.5	72.5	67.5	62.5	57.5	52.5	47.5	42.5	37.5	32.5	27.5	22.5	17.5	12.5
42.5																				
37.5																				
32.5														*	.001	.006	.002	*		
														*	.008	.037	.013	*		
														.001	.038	.128	.046	.002		
27.5														.001	.043	.090	.013	*		
														.006	.157	.316	.058	.001		
														.019	.309	.575	.147	.004		
22.5														*	*	*	*			
														*	.002	.001	*			
														.001	.010	.010	.001			
17.5																				
12.5																				
07.5																				
02.5																				

TROPICAL CYCLONE STRIKE PROBABILITIES FOR CIRCULAR AREAS WITH RADII OF ONE, TWO, AND THREE DEGREES LATITUDE
SEASON - SEPTEMBER TIME INTERVAL - 24 HOURS

5DEG ID = 2509 INITIAL POSITION = 27.5 N 042.5 W NUMBER OF OBS = 14

LATITUDE	LONGITUDE 107.5	102.5	97.5	92.5	87.5	82.5	77.5	72.5	67.5	62.5	57.5	52.5	47.5	42.5	37.5	32.5	27.5	22.5	17.5	12.5
42.5																				
37.5													*	*	.002	.001	*			
													*	.002	.008	.007	.002			
													.001	.010	.025	.017	.004			
32.5												*	.005	.031	.028	.005	*			
												.001	.026	.121	.101	.021	.002			
												.003	.078	.256	.200	.050	.005			
27.5											*	.004	.034	.027	.003	*				
											*	.017	.124	.109	.017	.001				
											.001	.045	.242	.245	.056	.003				
22.5											*	.003	.002	*						
											.001	.010	.011	.001						
											.002	.024	.035	.006						
17.5												*								
												*								
												.001								
12.5																				
07.5																				
02.5																				

5DEG ID = 2510 INITIAL POSITION = 27.5 N 047.5 W NUMBER OF OBS = 15

LATITUDE	LONGITUDE 107.5	102.5	97.5	92.5	87.5	82.5	77.5	72.5	67.5	62.5	57.5	52.5	47.5	42.5	37.5	32.5	27.5	22.5	17.5	12.5
42.5																				
37.5												*	*	*						
												.001	.003	.001						
												.004	.011	.003						
32.5											*	.010	.046	.010	*					
											.001	.046	.175	.047	.001					
											.004	.117	.361	.125	.004					
27.5											*	.007	.051	.015	*					
											*	.035	.195	.064	.001					
											.002	.099	.399	.136	.005					
22.5												*	*	*						
												*	.003	.001						
												.002	.012	.005						
17.5																				
12.5																				
07.5																				
02.5																				

TROPICAL CYCLONE STRIKE PROBABILITIES FOR CIRCULAR AREAS WITH RADII OF ONE, TWO, AND THREE DEGREES LATITUDE
SEASON - SEPTEMBER TIME INTERVAL - 24 HOURS

5DEG ID = 2511 INITIAL POSITION = 27.5 N 052.5 W NUMBER OF DBS = 32

LATITUDE	LONGITUDE 107.5	102.5	97.5	92.5	87.5	82.5	77.5	72.5	67.5	62.5	57.5	52.5	47.5	42.5	37.5	32.5	27.5	22.5	17.5	12.5
42.5																				
37.5											*	.001	.001	*						
											*	.006	.007	.001						
											.002	.027	.022	.002						
32.5										*	.014	.085	.014	*						
										*	.070	.292	.061	.001						
										.003	.199	.526	.148	.004						
27.5										*	.021	.011	*							
										.003	.082	.061	.001							
										.011	.181	.187	.010							
22.5											*									
											*									
											.002									
17.5																				
12.5																				
07.5																				
02.5																				

5DEG ID = 2512 INITIAL POSITION = 27.5 N 057.5 W NUMBER OF DBS = 30

LATITUDE	LONGITUDE 107.5	102.5	97.5	92.5	87.5	82.5	77.5	72.5	67.5	62.5	57.5	52.5	47.5	42.5	37.5	32.5	27.5	22.5	17.5	12.5
42.5											*	*								
											*	*								
											.001	.001								
37.5										*	.001	.005	.004	.001						
										*	.006	.024	.019	.003						
										.001	.020	.064	.046	.009						
32.5										.001	.025	.053	.016	.001						
										.007	.101	.193	.065	.005						
										.024	.224	.378	.146	.014						
27.5									*	.003	.021	.014	.001	*						
									*	.013	.080	.061	.007	*						
									.001	.034	.173	.154	.026	.001						
22.5										*	*	*								
										.001	.002	*								
										.003	.008	.002								
17.5																				
12.5																				
07.5																				
02.5																				

TROPICAL CYCLONE STRIKE PROBABILITIES FOR CIRCULAR AREAS WITH RADII OF ONE, TWO, AND THREE DEGREES LATITUDE
SEASON - SEPTEMBER TIME INTERVAL - 24 HOURS

5DEG ID = 2513 INITIAL POSITION = 27.5 N 062.5 W NUMBER OF OBS = 39

LATITUDE	LONGITUDE 107.5	102.5	97.5	92.5	87.5	82.5	77.5	72.5	67.5	62.5	57.5	52.5	47.5	42.5	37.5	32.5	27.5	22.5	17.5	12.5
42.5																				
37.5										*	*									
										*	.001									
										.004	.004									
32.5								*	.007	.055	.020	.001								
								*	.043	.214	.078	.003								
								.003	.136	.438	.171	.009								
27.5								.001	.022	.022	.001	*								
								.004	.086	.110	.009	*								
								.012	.195	.294	.044	.001								
22.5									*											
									*											
									.001											
17.5																				
12.5																				
07.5																				
02.5																				

5DEG ID = 2514 INITIAL POSITION = 27.5 N 067.5 W NUMBER OF OBS = 75

LATITUDE	LONGITUDE 107.5	102.5	97.5	92.5	87.5	82.5	77.5	72.5	67.5	62.5	57.5	52.5	47.5	42.5	37.5	32.5	27.5	22.5	17.5	12.5
42.5																				
37.5									*	*										
									*	*										
									.002	.003										
32.5							*	.004	.052	.023	.001									
							*	.028	.211	.088	.003									
							.001	.109	.446	.187	.010									
27.5							*	.022	.020	.001										
							.003	.088	.110	.007										
							.010	.193	.309	.041										
22.5								*												
								*												
								.001												
17.5																				
12.5																				
07.5																				
02.5																				

TROPICAL CYCLONE STRIKE PROBABILITIES FOR CIRCULAR AREAS WITH RADII OF ONE, TWO, AND THREE DEGREES LATITUDE
SEASON - SEPTEMBER TIME INTERVAL - 24 HOURS

5DEG ID = 2515 INITIAL POSITION = 27.5 N 072.5 W NUMBER OF OBS = 73

LATITUDE	LONGITUDE																		
	107.5	102.5	97.5	92.5	87.5	82.5	77.5	72.5	67.5	62.5	57.5	52.5	47.5	42.5	37.5	32.5	27.5	22.5	17.5	12.5
42.5																				
37.5							*	.001	.001	*										
							*	.005	.005	*										
							.002	.019	.017	.002										
32.5						*	.007	.061	.021	*										
						*	.035	.226	.085	.002										
						.001	.106	.443	.189	.008										
27.5						*	.014	.035	.002	*										
						.001	.059	.143	.016	*										
						.004	.140	.318	.038	.001										
22.5							*	*												
							.001	.001												
							.005	.004												
17.5																				
12.5																				
07.5																				
02.5																				

5DEG ID = 2516 INITIAL POSITION = 27.5 N 077.5 W NUMBER OF OBS = 71

LATITUDE	LONGITUDE																		
	107.5	102.5	97.5	92.5	87.5	82.5	77.5	72.5	67.5	62.5	57.5	52.5	47.5	42.5	37.5	32.5	27.5	22.5	17.5	12.5
42.5																				
37.5							*	*	*	*										
							*	.001	.002	.001										
							.001	.006	.008	.002										
32.5						*	.004	.032	.019	.001										
						*	.024	.129	.074	.006										
						.002	.077	.283	.139	.017										
27.5						.001	.029	.047	.006	*										
						.005	.111	.181	.030	.001										
						.017	.229	.375	.090	.003										
22.5						*	.001	*	*											
						.001	.006	.002	*											
						.003	.021	.011	.001											
17.5																				
12.5																				
07.5																				
02.5																				

TROPICAL CYCLONE STRIKE PROBABILITIES FOR CIRCULAR AREAS WITH RADII OF ONE, TWO, AND THREE DEGREES LATITUDE
SEASON - SEPTEMBER TIME INTERVAL - 24 HOURS

5DEG ID = 2517 INITIAL POSITION = 27.5 N 082.5 W NUMBER OF OBS = 50

LATITUDE	107.5	102.5	97.5	92.5	87.5	82.5	77.5	72.5	67.5	62.5	57.5	52.5	47.5	42.5	37.5	32.5	27.5	22.5	17.5	12.5
42.5																				
37.5						*	*													
						*	*													
						.002	.003													
32.5				*	.007	.048	.019	.001												
				*	.042	.192	.075	.003												
				.003	.137	.405	.163	.010												
27.5				.001	.026	.022	.001	*												
				.006	.103	.111	.010	*												
				.019	.222	.296	.046	.001												
22.5					*															
					*															
					.002															
17.5																				
12.5																				
07.5																				
02.5																				

5DEG ID = 2518 INITIAL POSITION = 27.5 N 087.5 W NUMBER OF OBS = 73

LATITUDE	107.5	102.5	97.5	92.5	87.5	82.5	77.5	72.5	67.5	62.5	57.5	52.5	47.5	42.5	37.5	32.5	27.5	22.5	17.5	12.5
42.5																				
37.5				*	*	*														
				*	*	*														
				.001	.003	.002														
32.5			*	.008	.037	.020	.001													
			.001	.038	.153	.080	.006													
			.005	.108	.337	.183	.018													
27.5			.001	.016	.036	.010	*													
			.003	.066	.151	.048	.002													
			.011	.154	.340	.132	.009													
22.5				*	*															
				*	*															
				.002	.002															
17.5																				
12.5																				
07.5																				
02.5																				

TROPICAL CYCLONE STRIKE PROBABILITIES FOR CIRCULAR AREAS WITH RADII OF ONE, TWO, AND THREE DEGREES LATITUDE
SEASON - SEPTEMBER TIME INTERVAL - 24 HOURS

5DEG ID = 2519 INITIAL POSITION = 27.5 N 092.5 W NUMBER OF OBS = 66

LATITUDE	LONGITUDE 107.5	102.5	97.5	92.5	87.5	82.5	77.5	72.5	67.5	62.5	57.5	52.5	47.5	42.5	37.5	32.5	27.5	22.5	17.5	12.5
42.5																				
37.5				*	*															
				*	.001															
				.003	.003															
32.5			.002	.037	.015	*														
			.016	.150	.060	.001														
			.063	.334	.139	.005														
27.5		*	.022	.058	.003	*														
		.001	.088	.224	.021	*														
		.004	.198	.457	.078	.001														
22.5			*	*																
			.002	.001																
			.010	.007																
17.5																				
12.5																				
07.5																				
02.5																				

5DEG ID = 2520 INITIAL POSITION = 27.5 N 097.5 W NUMBER OF OBS = 14

LATITUDE	LONGITUDE 107.5	102.5	97.5	92.5	87.5	82.5	77.5	72.5	67.5	62.5	57.5	52.5	47.5	42.5	37.5	32.5	27.5	22.5	17.5	12.5
42.5																				
37.5			*	*																
			.002	.002																
			.008	.008																
32.5		.001	.046	.008	*															
		.007	.177	.040	*															
		.039	.362	.108	.001															
27.5		.010	.077	.001																
		.056	.279	.008																
		.183	.523	.043																
22.5		.001	.001																	
		.006	.005																	
		.019	.024																	
17.5																				
12.5																				
07.5																				
02.5																				

TROPICAL CYCLONE STRIKE PROBABILITIES FOR CIRCULAR AREAS WITH RADII OF ONE, TWO, AND THREE DEGREES LATITUDE
SEASON - SEPTEMBER TIME INTERVAL - 24 HOURS

5DEG ID = 3009 INITIAL POSITION = 32.5 N 042.5 W NUMBER OF OBS = 21

LATITUDE	LONGITUDE 107.5	102.5	97.5	92.5	87.5	82.5	77.5	72.5	67.5	62.5	57.5	52.5	47.5	42.5	37.5	32.5	27.5	22.5	17.5	12.5
42.5																				
37.5													*	.008	.015	.002	*			
													.002	.051	.069	.009	*			
													.015	.170	.182	.027	.001			
32.5												*	.013	.078	.025	.001				
												.001	.053	.278	.117	.005				
												.003	.126	.517	.294	.020				
27.5													*	*	*					
													.001	.001	*					
													.004	.007	.001					
22.5																				
17.5																				
12.5																				
07.5																				
02.5																				

5DEG ID = 3010 INITIAL POSITION = 32.5 N 047.5 W NUMBER OF OBS = 12

LATITUDE	LONGITUDE 107.5	102.5	97.5	92.5	87.5	82.5	77.5	72.5	67.5	62.5	57.5	52.5	47.5	42.5	37.5	32.5	27.5	22.5	17.5	12.5
42.5																				
37.5												*	.006	.014	.003	*				
												.003	.051	.077	.017	.001				
												.024	.194	.209	.047	.003				
32.5											.001	.028	.047	.010	*	*				
											.005	.097	.206	.067	.004	*				
											.015	.190	.442	.218	.023	.001				
27.5											*	*								
											*	*								
											.001	.001								
22.5																				
17.5																				
12.5																				
07.5																				
02.5																				

TROPICAL CYCLONE STRIKE PROBABILITIES FOR CIRCULAR AREAS WITH RADII OF ONE, TWO, AND THREE DEGREES LATITUDE
SEASON - SEPTEMBER TIME INTERVAL - 24 HOURS

5DEG ID = 3011 INITIAL POSITION = 32.5 N 052.5 W NUMBER OF OBS = 13

LATITUDE	LONGITUDE 107.5	102.5	97.5	92.5	87.5	82.5	77.5	72.5	67.5	62.5	57.5	52.5	47.5	42.5	37.5	32.5	27.5	22.5	17.5	12.5
42.5										*	*	.003	.005	.003	.001	*				
										*	.002	.012	.020	.012	.003	*				
										.001	.007	.030	.048	.029	.007	.001				
37.5										*	.004	.020	.029	.012	.002	*				
										.001	.017	.080	.111	.048	.007	*				
										.003	.043	.174	.232	.108	.018	.001				
32.5										*	.006	.025	.027	.008	.001					
										.001	.023	.097	.106	.032	.003					
										.004	.056	.205	.225	.077	.008					
27.5										*	.001	.004	.003	.001	*					
										*	.005	.017	.014	.003	*					
										.001	.013	.043	.037	.009	.001					
22.5												*	*							
												*	*							
												.001	.001							
17.5																				
12.5																				
07.5																				
02.5																				

5DEG ID = 3012 INITIAL POSITION = 32.5 N 057.5 W NUMBER OF OBS = 30

LATITUDE	LONGITUDE 107.5	102.5	97.5	92.5	87.5	82.5	77.5	72.5	67.5	62.5	57.5	52.5	47.5	42.5	37.5	32.5	27.5	22.5	17.5	12.5
42.5										*	.001	.002	.001	*						
										.001	.007	.010	.003	*						
										.006	.025	.030	.011	.001						
37.5									.001	.013	.047	.043	.010	.001						
									.004	.053	.177	.159	.041	.003						
									.012	.124	.356	.318	.094	.009						
32.5									.001	.008	.017	.009	.001	*						
									.004	.035	.073	.042	.007	*						
									.011	.084	.178	.115	.024	.002						
27.5										*	*	*								
										*	*	*								
										.001	.002	.001								
22.5																				
17.5																				
12.5																				
07.5																				
02.5																				

TROPICAL CYCLONE STRIKE PROBABILITIES FOR CIRCULAR AREAS WITH RADII OF ONE, TWO, AND THREE DEGREES LATITUDE
SEASON - SEPTEMBER TIME INTERVAL - 24 HOURS

5DEG ID = 3013 INITIAL POSITION = 32.5 N 062.5 W NUMBER OF OBS = 48

LATITUDE	LONGITUDE 107.5	102.5	97.5	92.5	87.5	82.5	77.5	72.5	67.5	62.5	57.5	52.5	47.5	42.5	37.5	32.5	27.5	22.5	17.5	12.5
										*	.004	.005	.001	*						
42.5										.002	.018	.022	.006	*						
										.010	.053	.050	.013	.001						
									.001	.026	.050	.009	*							
37.5									.006	.109	.178	.041	.002							
									.025	.250	.337	.101	.007							
								*	.011	.038	.006	*								
32.5								.001	.046	.141	.034	.001								
								.003	.106	.281	.108	.005								
								*	.002	*	*									
27.5								.001	.010	.004	*									
								.003	.025	.016	.001									
22.5																				
17.5																				
12.5																				
07.5																				
02.5																				

5DEG ID = 3014 INITIAL POSITION = 32.5 N 067.5 W NUMBER OF OBS = 72

LATITUDE	LONGITUDE 107.5	102.5	97.5	92.5	87.5	82.5	77.5	72.5	67.5	62.5	57.5	52.5	47.5	42.5	37.5	32.5	27.5	22.5	17.5	12.5
								*	.001	.002	.002	.001	*							
42.5								*	.003	.013	.011	.002	*							
								.001	.014	.040	.030	.007	.001							
							*	.003	.034	.051	.014	.001								
37.5							*	.017	.135	.186	.057	.005								
							.001	.052	.290	.359	.126	.014								
							*	.010	.026	.008	*	*								
32.5							.002	.040	.102	.042	.004	*								
							.006	.090	.223	.121	.015	.001								
							*	*	*	*										
27.5							*	.002	.001	*										
							.001	.006	.005	.001										
22.5																				
17.5																				
12.5																				
07.5																				
02.5																				

TROPICAL CYCLONE STRIKE PROBABILITIES FOR CIRCULAR AREAS WITH RADII OF ONE, TWO, AND THREE DEGREES LATITUDE
SEASON - SEPTEMBER TIME INTERVAL - 24 HOURS

5DEG ID = 3015 INITIAL POSITION = 32.5 N 072.5 W NUMBER OF OBS = 54

LATITUDE	LONGITUDE 107.5	102.5	97.5	92.5	87.5	82.5	77.5	72.5	67.5	62.5	57.5	52.5	47.5	42.5	37.5	32.5	27.5	22.5	17.5	12.5
42.5								* .001 .006	* .004 .018	* .002 .009	* * .001									
37.5						* * .001	.003 .022 .077	.050 .196 .409	.056 .195 .364	.007 .031 .074	* .001 .003									
32.5						* .002 .008	.014 .054 .119	.019 .091 .235	.002 .016 .071	* * .003										
27.5							* * .002													
22.5																				
17.5																				
12.5																				
07.5																				
02.5																				

5DEG ID = 3016 INITIAL POSITION = 32.5 N 077.5 W NUMBER OF OBS = 59

LATITUDE	LONGITUDE 107.5	102.5	97.5	92.5	87.5	82.5	77.5	72.5	67.5	62.5	57.5	52.5	47.5	42.5	37.5	32.5	27.5	22.5	17.5	12.5
42.5						* .001 .003	.002 .013 .042	.011 .048 .117	.010 .040 .088	.002 .009 .023	* .001 .002									
37.5					* * .002	.004 .021 .060	.041 .154 .312	.050 .183 .359	.011 .047 .115	.001 .003 .011										
32.5					* .001 .005	.007 .030 .067	.015 .062 .143	.003 .018 .060	* .001 .005											
27.5					* * .001	* .001 .005	* .001 .003													
22.5																				
17.5																				
12.5																				
07.5																				
02.5																				

TROPICAL CYCLONE STRIKE PROBABILITIES FOR CIRCULAR AREAS WITH RADII OF ONE, TWO, AND THREE DEGREES LATITUDE
SEASON - SEPTEMBER TIME INTERVAL - 24 HOURS

5DEG ID = 3017 INITIAL POSITION = 32.5 N 082.5 W NUMBER OF OBS = 22

LATITUDE	LONGITUDE 107.5	102.5	97.5	92.5	87.5	82.5	77.5	72.5	67.5	62.5	57.5	52.5	47.5	42.5	37.5	32.5	27.5	22.5	17.5	12.5
42.5						*	*	*	*											
						*	.002	.002	.001											
						.003	.011	.009	.002											
37.5				*	.003	.032	.050	.015	.001	*										
				*	.017	.134	.180	.058	.006	*										
				.002	.060	.302	.343	.120	.014	.001										
32.5				.001	.017	.024	.005	*												
				.005	.065	.105	.032	.002												
				.015	.135	.247	.109	.013												
27.5				*	*	*														
				*	.001	*														
				.002	.004	.001														
22.5																				
17.5																				
12.5																				
07.5																				
02.5																				

5DEG ID = 3018 INITIAL POSITION = 32.5 N 087.5 W NUMBER OF OBS = 24

LATITUDE	LONGITUDE 107.5	102.5	97.5	92.5	87.5	82.5	77.5	72.5	67.5	62.5	57.5	52.5	47.5	42.5	37.5	32.5	27.5	22.5	17.5	12.5
42.5					*	*	*													
					*	*	*													
					.001	.002	.001													
37.5			*	.002	.024	.030	.006	*												
			*	.015	.114	.119	.023	.001												
			.001	.059	.284	.258	.056	.003												
32.5			.001	.020	.037	.010	*													
			.004	.075	.157	.055	.004													
			.013	.159	.352	.167	.017													
27.5			*	*	*															
			*	*	*															
			.001	.002	.001															
22.5																				
17.5																				
12.5																				
07.5																				
02.5																				

TROPICAL CYCLONE STRIKE PROBABILITIES FOR CIRCULAR AREAS WITH RADII OF ONE, TWO, AND THREE DEGREES LATITUDE
SEASON - SEPTEMBER TIME INTERVAL - 24 HOURS

5DEG ID = 3509 INITIAL POSITION = 37.5 N 042.5 W NUMBER OF OBS = 11

LATITUDE	LONGITUDE 107.5	102.5	97.5	92.5	87.5	82.5	77.5	72.5	67.5	62.5	57.5	52.5	47.5	42.5	37.5	32.5	27.5	22.5	17.5	12.5
42.5													*	.001	.008	.006	.001			
													*	.011	.046	.029	.004			
													.002	.052	.141	.077	.011			
37.5												*	.007	.072	.062	.008	*			
												*	.035	.244	.233	.040	.002			
												.002	.090	.438	.457	.114	.007			
32.5												*	.001	.001	*					
												*	.005	.006	.001					
												.001	.017	.029	.007					
27.5																				
22.5																				
17.5																				
12.5																				
07.5																				
02.5																				

5DEG ID = 3510 INITIAL POSITION = 37.5 N 047.5 W NUMBER OF OBS = 10

LATITUDE	LONGITUDE 107.5	102.5	97.5	92.5	87.5	82.5	77.5	72.5	67.5	62.5	57.5	52.5	47.5	42.5	37.5	32.5	27.5	22.5	17.5	12.5
42.5											*	.003	.010	.016	.012	.004	.001	*		
											.002	.013	.044	.069	.051	.019	.003	*		
											.005	.037	.110	.160	.119	.046	.009	.001		
37.5										*	.003	.014	.032	.034	.020	.007	.001	*		
										.001	.011	.055	.119	.130	.078	.027	.005	.001		
										.002	.026	.115	.242	.271	.170	.061	.013	.001		
32.5										*	*	.001	.001	.001	*	*				
										*	.002	.004	.005	.003	.002	*				
										.001	.005	.014	.018	.014	.007	.002				
27.5																				
22.5																				
17.5																				
12.5																				
07.5																				
02.5																				

TROPICAL CYCLONE STRIKE PROBABILITIES FOR CIRCULAR AREAS WITH RADII OF ONE, TWO, AND THREE DEGREES LATITUDE
SEASON - SEPTEMBER TIME INTERVAL - 24 HOURS

5DEG ID = 3511 INITIAL POSITION = 37.5 N 052.5 W NUMBER OF OBS = 18

LATITUDE	LONGITUDE 107.5	102.5	97.5	92.5	87.5	82.5	77.5	72.5	67.5	62.5	57.5	52.5	47.5	42.5	37.5	32.5	27.5	22.5	17.5	12.5
										*	.002	.017	.036	.026	.007	.001	*			
42.5										*	.011	.068	.135	.098	.030	.004	*			
										.002	.031	.155	.275	.203	.069	.012	.001			
										*	.007	.023	.020	.005	.001	*				
37.5										.002	.028	.087	.079	.024	.003	*				
										.006	.064	.182	.176	.066	.010	.001				
										*	.002	.002	*	*						
32.5										.001	.007	.009	.003	*						
										.003	.017	.025	.010	.001						
27.5																				
22.5																				
17.5																				
12.5																				
07.5																				
02.5																				

5DEG ID = 3512 INITIAL POSITION = 37.5 N 057.5 W NUMBER OF OBS = 34

LATITUDE	LONGITUDE 107.5	102.5	97.5	92.5	87.5	82.5	77.5	72.5	67.5	62.5	57.5	52.5	47.5	42.5	37.5	32.5	27.5	22.5	17.5	12.5
									*	.001	.016	.042	.028	.005	*					
42.5									*	.007	.065	.156	.106	.023	.002					
									.001	.020	.149	.315	.223	.058	.006					
									*	.003	.017	.021	.005	*						
37.5									*	.011	.067	.082	.024	.002						
									.001	.030	.144	.181	.066	.007						
										.001	.002	.001	*							
32.5										.002	.008	.004	*							
										.007	.020	.012	.002							
27.5																				
22.5																				
17.5																				
12.5																				
07.5																				
02.5																				

TROPICAL CYCLONE STRIKE PROBABILITIES FOR CIRCULAR AREAS WITH RADII OF ONE, TWO, AND THREE DEGREES LATITUDE
SEASON - SEPTEMBER TIME INTERVAL - 24 HOURS

5DEG ID = 3513 INITIAL POSITION = 37.5 N 062.5 W NUMBER OF OBS = 98

LATITUDE	LONGITUDE																		
	107.5	102.5	97.5	92.5	87.5	82.5	77.5	72.5	67.5	62.5	57.5	52.5	47.5	42.5	37.5	32.5	27.5	22.5	17.5	12.5
								*	.001	.014	.037	.026	.006	.001	*					
42.5								*	.006	.060	.137	.097	.026	.003	*					
								.001	.021	.145	.277	.197	.061	.009	.001					
								*	.010	.032	.019	.003	*							
37.5								.002	.039	.117	.079	.015	.001							
								.007	.089	.234	.183	.048	.005							
								.001	.003	.002	*									
32.5								.003	.014	.010	.001									
								.007	.032	.030	.006									
								*	*											
27.5								*	*											
								.001	.001											
22.5																				
17.5																				
12.5																				
07.5																				
02.5																				

5DEG ID = 3514 INITIAL POSITION = 37.5 N 067.5 W NUMBER OF OBS = 94

LATITUDE	LONGITUDE																		
	107.5	102.5	97.5	92.5	87.5	82.5	77.5	72.5	67.5	62.5	57.5	52.5	47.5	42.5	37.5	32.5	27.5	22.5	17.5	12.5
							*	.004	.019	.035	.025	.008	.002	*						
42.5							.001	.016	.077	.132	.096	.034	.007	.001						
							.004	.043	.168	.268	.201	.079	.018	.002						
							.001	.008	.018	.013	.003	*	*							
37.5							.004	.032	.070	.053	.017	.003	*							
							.011	.070	.149	.126	.047	.009	.001							
							*	.001	.001	*	*									
32.5							.002	.006	.005	.001	*									
							.005	.015	.015	.005	.001									
27.5																				
22.5																				
17.5																				
12.5																				
07.5																				
02.5																				

TROPICAL CYCLONE STRIKE PROBABILITIES FOR CIRCULAR AREAS WITH RADII OF ONE, TWO, AND THREE DEGREES LATITUDE
SEASON - SEPTEMBER TIME INTERVAL - 24 HOURS

SOEG ID = 3515 INITIAL POSITION = 37.5 N 072.5 W NUMBER OF OBS = 34

LATITUDE	LONGITUDE 107.5	102.5	97.5	92.5	87.5	82.5	77.5	72.5	67.5	62.5	57.5	52.5	47.5	42.5	37.5	32.5	27.5	22.5	17.5	12.5
42.5						*	.003	.020	.036	.021	.005	*								
						.001	.015	.079	.134	.082	.020	.002								
						.003	.039	.172	.275	.177	.050	.006								
37.5						*	.004	.015	.014	.004	*									
						.001	.016	.057	.055	.017	.002									
						.004	.039	.122	.125	.046	.006									
32.5						*	.001	.001	.001	*										
						*	.003	.007	.003	*										
						.001	.008	.017	.010	.002										
27.5																				
22.5																				
17.5																				
12.5																				
07.5																				
02.5																				

SOEG ID = 3516 INITIAL POSITION = 37.5 N 077.5 W NUMBER OF OBS = 12

LATITUDE	LONGITUDE 107.5	102.5	97.5	92.5	87.5	82.5	77.5	72.5	67.5	62.5	57.5	52.5	47.5	42.5	37.5	32.5	27.5	22.5	17.5	12.5
42.5					*	.001	.011	.033	.036	.017	.004	*	*							
					*	.005	.046	.126	.135	.065	.016	.002	*							
					.001	.016	.108	.260	.273	.140	.039	.006	.001							
37.5					*	.003	.014	.017	.007	.001	*									
					.001	.014	.055	.067	.031	.006	.001									
					.003	.033	.117	.151	.082	.021	.003									
32.5					*	.001	.001	*	*											
					*	.003	.004	.002	*											
					.001	.007	.012	.006	.001											
27.5																				
22.5																				
17.5																				
12.5																				
07.5																				
02.5																				

TROPICAL CYCLONE STRIKE PROBABILITIES FOR CIRCULAR AREAS WITH RADII OF ONE, TWO, AND THREE DEGREES LATITUDE
SEASON - SEPTEMBER TIME INTERVAL - 24 HOURS

5DEG ID = 4011 INITIAL POSITION = 42.5 N 052.5 W NUMBER OF OBS = 11

LATITUDE	LONGITUDE 107.5	102.5	97.5	92.5	87.5	82.5	77.5	72.5	67.5	62.5	57.5	52.5	47.5	42.5	37.5	32.5	27.5	22.5	17.5	12.5
42.5										*	.001	.006	.012	.009	.003	.001	*			
										*	.005	.024	.046	.037	.013	.003	*			
										.001	.013	.055	.100	.085	.035	.008	.001			
37.5											*	.001	.001	.001	*					
											.001	.005	.006	.003	*					
											.004	.012	.015	.008	.002					
32.5												*								
												*								
												.001								
27.5																				
22.5																				
17.5																				
12.5																				
07.5																				
02.5																				

TROPICAL CYCLONE STRIKE PROBABILITIES FOR CIRCULAR AREAS WITH RADII OF ONE, TWO, AND THREE DEGREES LATITUDE
SEASON - SEPTEMBER TIME INTERVAL - 48 HOURS

5DEG ID = 1006 INITIAL POSITION = 12.5 N 027.5 W NUMBER OF OBS = 15

LATITUDE	LONGITUDE 107.5	102.5	97.5	92.5	87.5	82.5	77.5	72.5	67.5	62.5	57.5	52.5	47.5	42.5	37.5	32.5	27.5	22.5	17.5	12.5
42.5																				
37.5																				
32.5																				
27.5																				
22.5																*	*	*		
																.001	.001	*		
																.004	.004	.001		
17.5														*	.006	.031	.013	.001		
														.001	.034	.126	.052	.003		
														.004	.103	.273	.111	.009		
12.5														.003	.039	.028	.002	*		
														.014	.142	.122	.013	*		
														.037	.278	.284	.044	.001		
07.5														*	*	*				
														.002	.002	*				
														.005	.012	.003				
02.5																				

5DEG ID = 1007 INITIAL POSITION = 12.5 N 032.5 W NUMBER OF OBS = 13

LATITUDE	LONGITUDE 107.5	102.5	97.5	92.5	87.5	82.5	77.5	72.5	67.5	62.5	57.5	52.5	47.5	42.5	37.5	32.5	27.5	22.5	17.5	12.5
42.5																				
37.5																				
32.5																				
27.5														*	*					
														*	*					
														.001	.001					
22.5													*	.003	.003	*				
													*	.012	.014	*				
													.001	.034	.036	.002				
17.5													*	.031	.023	*				
													.002	.121	.092	.001				
													.009	.261	.207	.005				
12.5													*	.043	.017	*				
													.003	.164	.076	*				
													.013	.333	.192	.002				
07.5													*	.005	.001					
													*	.022	.006					
													.002	.056	.021					
02.5														*						
														.001						

TROPICAL CYCLONE STRIKE PROBABILITIES FOR CIRCULAR AREAS WITH RADII OF ONE, TWO, AND THREE DEGREES LATITUDE
SEASON - SEPTEMBER TIME INTERVAL - 48 HOURS

5DEG ID = 1008 INITIAL POSITION = 12.5 N 037.5 W NUMBER OF OBS = 18

LATITUDE	LONGITUDE 107.5	102.5	97.5	92.5	87.5	82.5	77.5	72.5	67.5	62.5	57.5	52.5	47.5	42.5	37.5	32.5	27.5	22.5	17.5	12.5
42.5																				
37.5																				
32.5																				
27.5																				
22.5												*	*	*	*					
												*	.002	.003	.001					
												.001	.009	.012	.003					
17.5											*	.004	.034	.034	.005	*				
											*	.020	.135	.130	.020	.001				
											.001	.054	.289	.270	.048	.002				
12.5											*	.006	.025	.013	.001					
											.001	.027	.104	.062	.006					
											.003	.065	.238	.158	.020					
07.5												*	*	*						
												*	*	*						
												.001	.003	.001						
02.5																				

5DEG ID = 1009 INITIAL POSITION = 12.5 N 042.5 W NUMBER OF OBS = 19

LATITUDE	LONGITUDE 107.5	102.5	97.5	92.5	87.5	82.5	77.5	72.5	67.5	62.5	57.5	52.5	47.5	42.5	37.5	32.5	27.5	22.5	17.5	12.5
42.5																				
37.5																				
32.5																				
27.5																				
22.5												*	.003	.003	*					
												.002	.015	.013	.001					
												.007	.044	.039	.005					
17.5											*	.005	.047	.043	.004	*				
											*	.021	.174	.161	.016	*				
											.001	.053	.348	.327	.043	.001				
12.5												.001	.012	.013	.001					
												.005	.055	.055	.006					
												.018	.139	.138	.017					
07.5													*	*						
													*	*						
													.001	.002						
02.5																				

TROPICAL CYCLONE STRIKE PROBABILITIES FOR CIRCULAR AREAS WITH RADII OF ONE, TWO, AND THREE DEGREES LATITUDE
SEASON - SEPTEMBER TIME INTERVAL - 48 HOURS

5DEG ID = 1010 INITIAL POSITION = 12.5 N 047.5 W NUMBER OF OBS = 22

LATITUDE	LONGITUDE 107.5	102.5	97.5	92.5	87.5	82.5	77.5	72.5	67.5	62.5	57.5	52.5	47.5	42.5	37.5	32.5	27.5	22.5	17.5	12.5
42.5																				
37.5																				
32.5																				
27.5										*	*									
										*	*									
										.001	.001									
22.5									*	.004	.008	.002	*							
									.001	.016	.034	.012	.001							
									.004	.040	.087	.036	.002							
17.5									*	.010	.052	.034	.002							
									.002	.043	.190	.130	.011							
									.005	.100	.373	.270	.031							
12.5										*	.006	.011	.002	*						
										.003	.030	.047	.009	*						
										.011	.086	.113	.023	.001						
07.5												*	*							
												*	*							
												.002	.001							
02.5																				

5DEG ID = 1011 INITIAL POSITION = 12.5 N 052.5 W NUMBER OF OBS = 14

LATITUDE	LONGITUDE 107.5	102.5	97.5	92.5	87.5	82.5	77.5	72.5	67.5	62.5	57.5	52.5	47.5	42.5	37.5	32.5	27.5	22.5	17.5	12.5
42.5																				
37.5																				
32.5																				
27.5																				
22.5										*	.001	*								
										.001	.005	.002								
										.004	.020	.011								
17.5									*	.006	.058	.033	.001							
									*	.027	.211	.131	.006							
									.001	.068	.413	.281	.019							
12.5										.001	.014	.012	.001							
										.006	.067	.057	.003							
										.021	.180	.149	.012							
07.5												*	*							
												*	*							
												.001	.001							
02.5																				

TROPICAL CYCLONE STRIKE PROBABILITIES FOR CIRCULAR AREAS WITH RADII OF ONE, TWO, AND THREE DEGREES LATITUDE
SEASON = SEPTEMBER TIME INTERVAL = 48 HOURS

5DEG ID = 1012 INITIAL POSITION = 12.5 N 057.5 W NUMBER OF OBS = 19

LATITUDE	LONGITUDE 107.5	102.5	97.5	92.5	87.5	82.5	77.5	72.5	67.5	62.5	57.5	52.5	47.5	42.5	37.5	32.5	27.5	22.5	17.5	12.5
42.5																				
37.5																				
32.5																				
27.5																				
22.5									* .001 .004	* * .001										
17.5								.001 .005 .022	.038 .151 .332	.008 .041 .120	* * .001									
12.5								.001 .006 .028	.063 .238 .475	.013 .064 .175	* * .001									
07.5									* .002 .010	* * .003										
02.5																				

5DEG ID = 1013 INITIAL POSITION = 12.5 N 062.5 W NUMBER OF OBS = 26

LATITUDE	LONGITUDE 107.5	102.5	97.5	92.5	87.5	82.5	77.5	72.5	67.5	62.5	57.5	52.5	47.5	42.5	37.5	32.5	27.5	22.5	17.5	12.5
42.5																				
37.5																				
32.5																				
27.5																				
22.5																				
17.5							* .002 .012	.010 .060 .196	.010 .054 .161	* .002 .008										
12.5								.004 .018 .051	.052 .211 .443	.023 .112 .282	* .003 .012									
07.5									* .001											
02.5																				

TROPICAL CYCLONE STRIKE PROBABILITIES FOR CIRCULAR AREAS WITH RADII OF ONE, TWO, AND THREE DEGREES LATITUDE
SEASON - SEPTEMBER TIME INTERVAL - 48 HOURS

5DEG ID = 1014 INITIAL POSITION = 12.5 N 067.5 W NUMBER OF OBS = 17

LATITUDE	LONGITUDE 107.5	102.5	97.5	92.5	87.5	82.5	77.5	72.5	67.5	62.5	57.5	52.5	47.5	42.5	37.5	32.5	27.5	22.5	17.5	12.5
42.5																				
37.5																				
32.5																				
27.5																				
22.5																				
17.5						.001 .006 .024	* .012 .131	* * .001													
12.5						* .001 .017	.041 .311 .675	.061 .191 .353	* * .002												
07.5								* * .001												
02.5																				

5DEG ID = 1015 INITIAL POSITION = 12.5 N 072.5 W NUMBER OF OBS = 14

LATITUDE	LONGITUDE 107.5	102.5	97.5	92.5	87.5	82.5	77.5	72.5	67.5	62.5	57.5	52.5	47.5	42.5	37.5	32.5	27.5	22.5	17.5	12.5
42.5																				
37.5																				
32.5																				
27.5																				
22.5																				
17.5						* .002 .009	.012 .058 .158	.003 .023 .088	* * .001												
12.5						* .002 .010	.045 .187 .410	.067 .240 .455	* .003 .015												
07.5							* * .005	* .003 .018	* * .001											
02.5																				

TROPICAL CYCLONE STRIKE PROBABILITIES FOR CIRCULAR AREAS WITH RADII OF ONE, TWO, AND THREE DEGREES LATITUDE
SEASON - SEPTEMBER TIME INTERVAL - 48 HOURS

5DEG ID = 1016 INITIAL POSITION = 12.5 N 077.5 W NUMBER OF OBS = 17

LATITUDE	LONGITUDE 107.5	102.5	97.5	92.5	87.5	82.5	77.5	72.5	67.5	62.5	57.5	52.5	47.5	42.5	37.5	32.5	27.5	22.5	17.5	12.5
42.5																				
37.5																				
32.5																				
27.5																				
22.5						* .001	* .002 .009	* .002 .006	* .001												
17.5					* .001 .005	.011 .050 .137	.039 .150 .310	.010 .041 .091	* .001 .004											
12.5					.002 .010 .029	.036 .133 .268	.025 .111 .263	.001 .008 .030												
07.5					* .001 .003	* .003 .012	* .003													
02.5																				

5DEG ID = 1017 INITIAL POSITION = 12.5 N 082.5 W NUMBER OF OBS = 10

LATITUDE	LONGITUDE 107.5	102.5	97.5	92.5	87.5	82.5	77.5	72.5	67.5	62.5	57.5	52.5	47.5	42.5	37.5	32.5	27.5	22.5	17.5	12.5
42.5																				
37.5																				
32.5																				
27.5																				
22.5						* .001 .009	* .004 .018	* .001 .003												
17.5			* * .002	.009 .054 .166	.084 .284 .503	.024 .092 .188	.001 .003 .010													
12.5			.001 .006 .017	.014 .065 .153	.002 .022 .106	* * .004														
07.5																				
02.5																				

TROPICAL CYCLONE STRIKE PROBABILITIES FOR CIRCULAR AREAS WITH RADII OF ONE, TWO, AND THREE DEGREES LATITUDE
SEASON - SEPTEMBER TIME INTERVAL - 48 HOURS

5DEG ID = 1507 INITIAL POSITION = 17.5 N 032.5 W NUMBER OF OBS = 14

LATITUDE	LONGITUDE 107.5	102.5	97.5	92.5	87.5	82.5	77.5	72.5	67.5	62.5	57.5	52.5	47.5	42.5	37.5	32.5	27.5	22.5	17.5	12.5
42.5																				
37.5																				
32.5																*				
																*				
																.001				
27.5														*	.002	.006	.004	.001		
														.001	.012	.027	.014	.002		
														.005	.045	.066	.029	.005		
22.5													.001	.029	.047	.009	*	*		
													.007	.117	.163	.042	.003	*		
													.032	.251	.302	.103	.012	.001		
17.5												.001	.021	.013	*	*				
												.004	.072	.064	.005	*				
												.014	.137	.164	.028	.001				
12.5											*	.001	*	*						
											*	.005	.003	*						
											.001	.011	.013	.001						
07.5																				
02.5																				

5DEG ID = 1508 INITIAL POSITION = 17.5 N 037.5 W NUMBER OF OBS = 21

LATITUDE	LONGITUDE 107.5	102.5	97.5	92.5	87.5	82.5	77.5	72.5	67.5	62.5	57.5	52.5	47.5	42.5	37.5	32.5	27.5	22.5	17.5	12.5
42.5																				
37.5																				
32.5														*						
														*						
														.001						
27.5												*	.003	.005	*					
												.001	.015	.020	.002					
												.003	.046	.051	.007					
22.5											*	.006	.063	.024	.001					
											*	.031	.228	.095	.003					
											.001	.089	.439	.209	.010					
17.5											*	.010	.022	.001						
											.001	.042	.093	.009						
											.003	.098	.218	.036						
12.5												*	*							
												.001	.001							
												.004	.003							
07.5																				
02.5																				

TROPICAL CYCLONE STRIKE PROBABILITIES FOR CIRCULAR AREAS WITH RADII OF ONE, TWO, AND THREE DEGREES LATITUDE
SEASON - SEPTEMBER TIME INTERVAL - 48 HOURS

5DEG ID = 1509 INITIAL POSITION = 17.5 N 042.5 W NUMBER OF OBS = 29

LATITUDE	LONGITUDE 107.5	102.5	97.5	92.5	87.5	82.5	77.5	72.5	67.5	62.5	57.5	52.5	47.5	42.5	37.5	32.5	27.5	22.5	17.5	12.5
42.5																				
37.5																				
32.5												*	*							
												*	*							
												.001	.001							
27.5										*	.001	.005	.005	.001						
										*	.005	.024	.021	.003						
										.001	.014	.062	.052	.009						
22.5										*	.011	.048	.027	.002	*					
										.002	.047	.178	.103	.010	*					
										.005	.110	.357	.217	.026	.001					
17.5										*	.008	.020	.006	*						
										.001	.032	.083	.029	.002						
										.005	.076	.187	.078	.006						
12.5											*	*	*							
											.001	.002	*							
											.004	.006	.001							
07.5																				
02.5																				

5DEG ID = 1510 INITIAL POSITION = 17.5 N 047.5 W NUMBER OF OBS = 46

LATITUDE	LONGITUDE 107.5	102.5	97.5	92.5	87.5	82.5	77.5	72.5	67.5	62.5	57.5	52.5	47.5	42.5	37.5	32.5	27.5	22.5	17.5	12.5
42.5																				
37.5																				
32.5											*	*	*							
											*	.001	*							
											.001	.002	.001							
27.5										*	.004	.010	.002	*						
										.001	.018	.042	.009	*						
										.002	.050	.099	.024	.001						
22.5										.001	.037	.050	.004	*						
										.007	.142	.187	.018	*						
										.022	.299	.372	.051	.001						
17.5										.001	.017	.009	*							
										.005	.067	.044	.002							
										.016	.153	.116	.007							
12.5										*	*	*								
										*	.001	*								
										.001	.005	.002								
07.5																				
02.5																				

TROPICAL CYCLONE STRIKE PROBABILITIES FOR CIRCULAR AREAS WITH RADII OF ONE, TWO, AND THREE DEGREES LATITUDE
SEASON - SEPTEMBER TIME INTERVAL - 48 HOURS

5DEG ID = 1511 INITIAL POSITION = 17.5 N 052.5 W NUMBER OF OBS = 55

LATITUDE	LONGITUDE 107.5	102.5	97.5	92.5	87.5	82.5	77.5	72.5	67.5	62.5	57.5	52.5	47.5	42.5	37.5	32.5	27.5	22.5	17.5	12.5
42.5																				
37.5																				
32.5											*	*								
											*	*								
											.002	.001								
27.5									*	.002	.006	.003	*							
									*	.009	.028	.012	.001							
									.001	.027	.068	.029	.003							
22.5									.001	.028	.042	.007	*							
									.008	.110	.158	.028	.001							
									.024	.238	.316	.070	.003							
17.5								*	.003	.026	.013	.001								
								*	.015	.101	.059	.004								
								.001	.038	.212	.146	.013								
12.5									*	.001	*									
									.002	.005	.001									
									.005	.016	.004									
07.5																				
02.5																				

5DEG ID = 1512 INITIAL POSITION = 17.5 N 057.5 W NUMBER OF OBS = 66

LATITUDE	LONGITUDE 107.5	102.5	97.5	92.5	87.5	82.5	77.5	72.5	67.5	62.5	57.5	52.5	47.5	42.5	37.5	32.5	27.5	22.5	17.5	12.5
42.5																				
37.5																				
32.5																				
27.5										*	.001	.001	*							
										.002	.008	.005	.001							
										.008	.028	.017	.002							
22.5									.002	.034	.058	.015	.001							
									.011	.133	.207	.057	.003							
									.036	.284	.392	.123	.009							
17.5								*	.005	.014	.005	*								
								.001	.019	.063	.029	.003								
								.002	.046	.157	.098	.013								
12.5									*	*										
									*	*										
									.001	.001										
07.5																				
02.5																				

TROPICAL CYCLONE STRIKE PROBABILITIES FOR CIRCULAR AREAS WITH RADII OF ONE, TWO, AND THREE DEGREES LATITUDE
SEASON - SEPTEMBER TIME INTERVAL - 48 HOURS

5DEG ID = 1513 INITIAL POSITION = 17.5 N 062.5 W NUMBER OF OBS = 60

LATITUDE	LONGITUDE 107.5	102.5	97.5	92.5	87.5	82.5	77.5	72.5	67.5	62.5	57.5	52.5	47.5	42.5	37.5	32.5	27.5	22.5	17.5	12.5
42.5																				
37.5																				
32.5																				
27.5									*	.002	.001									
									.002	.012	.003									
									.011	.038	.010									
22.5								*	.037	.052	.002									
								.004	.152	.188	.011									
								.017	.336	.364	.035									
17.5								.003	.030	.005	*									
								.013	.120	.029	*									
								.039	.258	.101	.002									
12.5								*	*											
								*	.001											
								.002	.004											
07.5																				
02.5																				

5DEG ID = 1514 INITIAL POSITION = 17.5 N 067.5 W NUMBER OF OBS = 49

LATITUDE	LONGITUDE 107.5	102.5	97.5	92.5	87.5	82.5	77.5	72.5	67.5	62.5	57.5	52.5	47.5	42.5	37.5	32.5	27.5	22.5	17.5	12.5
42.5																				
37.5																				
32.5																				
27.5									*	.001	.002	*								
									*	.008	.009	.001								
									.003	.029	.024	.002								
22.5								*	.016	.061	.008	*								
								.001	.077	.216	.037	.001								
								.005	.201	.403	.091	.002								
17.5								.002	.034	.008	*									
								.011	.127	.046	.001									
								.033	.255	.146	.005									
12.5								*	*											
								.001	.001											
								.004	.007											
07.5																				
02.5																				

TROPICAL CYCLONE STRIKE PROBABILITIES FOR CIRCULAR AREAS WITH RADII OF ONE, TWO, AND THREE DEGREES LATITUDE
SEASON - SEPTEMBER TIME INTERVAL - 48 HOURS

5DEG ID = 1515 INITIAL POSITION = 17.5 N 072.5 W NUMBER OF OBS = 33

LATITUDE	107.5	102.5	97.5	92.5	87.5	82.5	77.5	72.5	67.5	62.5	57.5	52.5	47.5	42.5	37.5	32.5	27.5	22.5	17.5	12.5
42.5										LONGITUDE										
37.5																				
32.5																				
27.5						*	*													
						*	*													
						.001	.001													
22.5					.001	.022	.015	*												
					.009	.100	.070	.003												
					.030	.248	.181	.011												
17.5					.004	.045	.028	.001												
					.017	.179	.118	.005												
					.051	.383	.272	.017												
12.5						*	*													
						*	*													
						.003	.002													
07.5																				
02.5																				

5DEG ID = 1516 INITIAL POSITION = 17.5 N 077.5 W NUMBER OF OBS = 45

LATITUDE	107.5	102.5	97.5	92.5	87.5	82.5	77.5	72.5	67.5	62.5	57.5	52.5	47.5	42.5	37.5	32.5	27.5	22.5	17.5	12.5
42.5										LONGITUDE										
37.5																				
32.5																				
27.5						*	.002	.001	*											
						.002	.009	.007	.001											
						.008	.030	.020	.003											
22.5					.001	.022	.048	.013	.001											
					.005	.091	.177	.050	.003											
					.018	.210	.347	.111	.008											
17.5			*	.004	.027	.014	.001													
			*	.018	.103	.063	.005													
			.001	.044	.217	.164	.021													
12.5				*	*	*														
				.001	.002	*														
				.004	.007	.001														
07.5																				
02.5																				

TROPICAL CYCLONE STRIKE PROBABILITIES FOR CIRCULAR AREAS WITH RADII OF ONE, TWO, AND THREE DEGREES LATITUDE
SEASON - SEPTEMBER TIME INTERVAL - 48 HOURS

5DEG ID = 1517 INITIAL POSITION = 17.5 N 082.5 W NUMBER OF OBS = 50

LATITUDE	LONGITUDE 107.5	102.5	97.5	92.5	87.5	82.5	77.5	72.5	67.5	62.5	57.5	52.5	47.5	42.5	37.5	32.5	27.5	22.5	17.5	12.5
42.5																				
37.5																				
32.5						*														
						*														
						.001														
27.5				*	.003	.005	.002	*												
				.001	.015	.024	.007	*												
				.006	.045	.060	.018	.001												
22.5			*	.011	.053	.029	.003	*												
			.001	.048	.194	.112	.012	*												
			.005	.118	.379	.230	.031	.001												
17.5			.001	.013	.014	.002	*													
			.004	.051	.063	.010	*													
			.011	.111	.157	.037	.002													
12.5			*	*	*															
			*	.001	*															
			.001	.004	.002															
07.5																				
02.5																				

5DEG ID = 1518 INITIAL POSITION = 17.5 N 087.5 W NUMBER OF OBS = 24

LATITUDE	LONGITUDE 107.5	102.5	97.5	92.5	87.5	82.5	77.5	72.5	67.5	62.5	57.5	52.5	47.5	42.5	37.5	32.5	27.5	22.5	17.5	12.5
42.5																				
37.5																				
32.5				*	*	*														
				*	.001	*														
				.001	.002	.001														
27.5			.001	.006	.006	.001	*													
			.004	.026	.025	.005	*													
			.014	.066	.058	.012	.001													
22.5		*	.014	.046	.018	.001														
		.002	.058	.170	.072	.005														
		.008	.137	.339	.158	.015														
17.5		.001	.017	.020	.002	*														
		.005	.066	.081	.012	*														
		.015	.142	.185	.039	.001														
12.5		*	.001	*																
		.001	.004	.002																
		.003	.013	.007																
07.5																				
02.5																				

TROPICAL CYCLONE STRIKE PROBABILITIES FOR CIRCULAR AREAS WITH RADII OF ONE, TWO, AND THREE DEGREES LATITUDE
SEASON - SEPTEMBER TIME INTERVAL - 48 HOURS

5DEG ID = 2010 INITIAL POSITION = 22.5 N 047.5 W NUMBER OF OBS = 14

LATITUDE	LONGITUDE 107.5	102.5	97.5	92.5	87.5	82.5	77.5	72.5	67.5	62.5	57.5	52.5	47.5	42.5	37.5	32.5	27.5	22.5	17.5	12.5
42.5											*	*	.001	.001	*	*				
											.001	.002	.003	.003	.001	.001				
											.002	.005	.007	.007	.004	.001				
37.5									*	.001	.003	.006	.008	.005	.002	.001	*			
									*	.002	.011	.025	.030	.022	.010	.003	.001			
									.001	.007	.027	.058	.068	.049	.022	.007	.001			
32.5									.001	.004	.013	.022	.018	.009	.003	.001	*			
									.002	.017	.053	.083	.070	.035	.011	.002	*			
									.006	.040	.116	.175	.149	.077	.026	.006	.001			
27.5								*	.001	.007	.014	.013	.007	.002	*	*				
								*	.006	.027	.053	.052	.027	.009	.002	*				
								.001	.013	.038	.115	.115	.065	.023	.005	.001				
22.5								*	.001	.002	.002	.001	*	*						
								*	.003	.008	.009	.005	.001	*						
								.001	.007	.019	.023	.013	.005	.001						
17.5									*	*	*									
									*	*	*									
									.001	.001	.001									
12.5																				
07.5																				
02.5																				

5DEG ID = 2011 INITIAL POSITION = 22.5 N 052.5 W NUMBER OF OBS = 34

LATITUDE	LONGITUDE 107.5	102.5	97.5	92.5	87.5	82.5	77.5	72.5	67.5	62.5	57.5	52.5	47.5	42.5	37.5	32.5	27.5	22.5	17.5	12.5
42.5											*	*	*	*						
											*	.001	.001	.001						
											.001	.003	.003	.002						
37.5										*	.002	.004	.003	.001	*					
										.002	.010	.018	.013	.004	.001					
										.005	.025	.043	.029	.009	.001					
32.5									*	.005	.019	.020	.007	.001	*					
									.002	.021	.073	.076	.027	.004	*					
									.005	.053	.159	.159	.061	.010	.001					
27.5								*	.002	.016	.029	.013	.002	*						
								*	.008	.062	.112	.054	.008	*						
								.001	.020	.135	.232	.123	.023	.002						
22.5								*	.002	.009	.006	.001	*							
								*	.008	.035	.028	.005	*							
								.001	.021	.077	.068	.016	.001							
17.5									*	.001	*									
									.002	.003	.001									
									.004	.008	.003									
12.5																				
07.5																				
02.5																				

TROPICAL CYCLONE STRIKE PROBABILITIES FOR CIRCULAR AREAS WITH RADII OF ONE, TWO, AND THREE DEGREES LATITUDE
SEASON - SEPTEMBER TIME INTERVAL - 48 HOURS

5DEG ID = 2012 INITIAL POSITION = 22.5 N 057.5 W NUMBER OF OBS = 46

LATITUDE	LONGITUDE																		
	107.5	102.5	97.5	92.5	87.5	82.5	77.5	72.5	67.5	62.5	57.5	52.5	47.5	42.5	37.5	32.5	27.5	22.5	17.5	12.5
42.5																				
37.5									*	.001	.002	.001	*							
									*	.003	.007	.005	.001							
									.001	.009	.018	.012	.003							
32.5								*	*	.003	.015	.017	.005	*						
								*	*	.013	.062	.066	.020	.002						
								.002	.038	.141	.140	.045	.005							
27.5									.001	.020	.039	.013	.001	*						
									.007	.080	.147	.055	.005	*						
									.020	.174	.296	.130	.017	.001						
22.5								*	.003	.013	.006	*								
								*	.012	.049	.028	.003								
								.001	.028	.107	.075	.011								
17.5									*	*	*									
									.002	.002	*									
									.005	.007	.001									
12.5																				
07.5																				
02.5																				

5DEG ID = 2013 INITIAL POSITION = 22.5 N 062.5 W NUMBER OF OBS = 71

LATITUDE	LONGITUDE																		
	107.5	102.5	97.5	92.5	87.5	82.5	77.5	72.5	67.5	62.5	57.5	52.5	47.5	42.5	37.5	32.5	27.5	22.5	17.5	12.5
42.5																				
37.5									*	*	*	*								
									.001	.002	.002	.001								
									.003	.007	.006	.002								
32.5							*	.002	.011	.016	.008	.001	*							
							.001	.010	.046	.062	.030	.006	.001							
							.002	.030	.111	.137	.066	.014	.001							
27.5						*	.002	.019	.040	.024	.005	*								
						*	.009	.073	.149	.093	.021	.002								
						.001	.024	.157	.298	.200	.053	.006								
22.5						*	.002	.007	.004	.001	*									
						.001	.009	.028	.021	.005	*									
						.002	.021	.066	.059	.018	.002									
17.5							*	*												
							*	*												
							.001	.002												
12.5																				
07.5																				
02.5																				

TROPICAL CYCLONE STRIKE PROBABILITIES FOR CIRCULAR AREAS WITH RADII OF ONE, TWO, AND THREE DEGREES LATITUDE
SEASON - SEPTEMBER TIME INTERVAL - 48 HOURS

5DEG ID = 2014 INITIAL POSITION = 22.5 N 067.5 W NUMBER OF OBS = 79

LATITUDE	107.5	102.5	97.5	92.5	87.5	82.5	77.5	72.5	67.5	62.5	57.5	52.5	47.5	42.5	37.5	32.5	27.5	22.5	17.5	12.5
								LONGITUDE												
42.5																				
37.5								*	*	*	*									
								*	.001	.001	*									
								.002	.005	.003	.001									
32.5							●	.001	.008	.014	.005	.001								
							●	.005	.036	.055	.021	.002								
							.001	.017	.093	.123	.047	.006								
27.5							*	.014	.048	.029	.004	*								
							.003	.056	.176	.110	.017	.001								
							.009	.128	.347	.234	.044	.003								
22.5							.001	.008	.009	.001	*									
							.004	.033	.039	.008	*									
							.011	.076	.099	.028	.002									
17.5							*	*	●											
							●	.001	*											
							.001	.003	.001											
12.5																				
07.5																				
02.5																				

5DEG ID = 2015 INITIAL POSITION = 22.5 N 072.5 W NUMBER OF OBS = 66

LATITUDE	107.5	102.5	97.5	92.5	87.5	82.5	77.5	72.5	67.5	62.5	57.5	52.5	47.5	42.5	37.5	32.5	27.5	22.5	17.5	12.5
								LONGITUDE												
42.5																				
37.5								*	*	*										
								*	*	●										
								.001	.002	.001										
32.5							*	.003	.010	.006	.001									
							.001	.015	.041	.022	.003									
							.004	.048	.099	.049	.008									
27.5					*	.009	.053	.033	.003	*										
					.001	.042	.191	.124	.016	.001										
					.004	.108	.368	.258	.046	.002										
22.5					.001	.014	.009	.001	*											
					.006	.053	.045	.005	*											
					.015	.112	.121	.021	.001											
17.5					*	*	*													
					.001	.001	*													
					.002	.005	.001													
12.5																				
07.5																				
02.5																				

TROPICAL CYCLONE STRIKE PROBABILITIES FOR CIRCULAR AREAS WITH RADII OF ONE, TWO, AND THREE DEGREES LATITUDE
SEASON - SEPTEMBER TIME INTERVAL - 48 HOURS

5DEG ID = 2016 INITIAL POSITION = 22.5 N 077.5 W NUMBER OF OBS = 39

LATITUDE	LONGITUDE 107.5	102.5	97.5	92.5	87.5	82.5	77.5	72.5	67.5	62.5	57.5	52.5	47.5	42.5	37.5	32.5	27.5	22.5	17.5	12.5
42.5																				
37.5																				
32.5					*	*	.002	.002	*											
					*	.002	.011	.008	.001											
					.001	.012	.037	.022	.004											
27.5				*	.006	.049	.043	.006	*											
				*	.030	.184	.153	.026	.001											
				.002	.092	.365	.291	.063	.004											
22.5				.002	.019	.012	.001	*												
				.007	.070	.060	.007	*												
				.020	.144	.167	.033	.001												
17.5				*	*															
				.001	.001															
				.003	.004															
12.5																				
07.5																				
02.5																				

5DEG ID = 2017 INITIAL POSITION = 22.5 N 082.5 W NUMBER OF OBS = 52

LATITUDE	LONGITUDE 107.5	102.5	97.5	92.5	87.5	82.5	77.5	72.5	67.5	62.5	57.5	52.5	47.5	42.5	37.5	32.5	27.5	22.5	17.5	12.5
42.5																				
37.5						*	*	*												
						*	*	*												
						.001	.001	.001												
32.5					*	.002	.008	.007	.001	*										
					.001	.012	.037	.027	.006	*										
					.003	.040	.095	.061	.014	.001										
27.5				*	.008	.046	.041	.008	*											
			.001	.036	.169	.151	.035	.003												
			.004	.091	.332	.302	.085	.008												
22.5			.001	.010	.008	.001	*													
			.005	.037	.040	.008	*													
			.012	.082	.108	.031	.002													
17.5			*	*	*															
			*	.001	*															
			.001	.003	.001															
12.5																				
07.5																				
02.5																				

TROPICAL CYCLONE STRIKE PROBABILITIES FOR CIRCULAR AREAS WITH RADII OF ONE, TWO, AND THREE DEGREES LATITUDE
SEASON - SEPTEMBER TIME INTERVAL - 48 HOURS

5DEG ID = 2018 INITIAL POSITION = 22.5 N 087.5 W NUMBER OF OBS = 51

LATITUDE	LONGITUDE 107.5	102.5	97.5	92.5	87.5	82.5	77.5	72.5	67.5	62.5	57.5	52.5	47.5	42.5	37.5	32.5	27.5	22.5	17.5	12.5
42.5																				
37.5				*	.001	.001	*													
				.001	.004	.004	.001													
				.004	.012	.009	.002													
32.5			.001	.007	.013	.005	.001													
			.004	.032	.053	.021	.002													
			.012	.077	.115	.048	.006													
27.5		*	.007	.035	.026	.004	*													
		.001	.029	.131	.102	.016	.001													
		.003	.073	.269	.215	.043	.002													
22.5		*	.010	.021	.005	*														
		.002	.039	.082	.025	.001														
		.007	.088	.176	.066	.005														
17.5		●	.002	.001	●															
		.001	.007	.006	.001															
		.002	.018	.017	.002															
12.5																				
07.5																				
02.5																				

5DEG ID = 2019 INITIAL POSITION = 22.5 N 092.5 W NUMBER OF OBS = 36

LATITUDE	LONGITUDE 107.5	102.5	97.5	92.5	87.5	82.5	77.5	72.5	67.5	62.5	57.5	52.5	47.5	42.5	37.5	32.5	27.5	22.5	17.5	12.5
42.5																				
37.5				*	*	*														
				*	.001	.001														
				.001	.002	.002														
32.5		*	.001	.006	.007	.003	●													
		*	.006	.025	.029	.012	.002													
		.001	.019	.083	.069	.028	.005													
27.5	*	.002	.020	.040	.021	.004	*													
	*	.010	.080	.147	.079	.015	.001													
	.001	.029	.176	.296	.168	.037	.004													
22.5	*	.006	.017	.011	.002	*														
	.001	.022	.068	.047	.009	.001														
	.004	.050	.146	.117	.030	.003														
17.5	*	.001	*	*																
	*	.003	.003	*																
	.001	.008	.009	.002																
12.5																				
07.5																				
02.5																				

TROPICAL CYCLONE STRIKE PROBABILITIES FOR CIRCULAR AREAS WITH RADII OF ONE, TWO, AND THREE DEGREES LATITUDE
SEASON - SEPTEMBER TIME INTERVAL - 48 HOURS

5DEG ID = 2509 INITIAL POSITION = 27.5 N 042.5 W NUMBER OF OBS = 14

LATITUDE	LONGITUDE 107.5	102.5	97.5	92.5	87.5	82.5	77.5	72.5	67.5	62.5	57.5	52.5	47.5	42.5	37.5	32.5	27.5	22.5	17.5	12.5
42.5													*	*	.001	.002	.003	.002	.001	.001
													*	.002	.006	.010	.011	.008	.005	.002
													.001	.006	.015	.024	.025	.019	.011	.005
37.5												*	.002	.006	.010	.010	.007	.003	.001	*
												.001	.007	.024	.040	.040	.027	.013	.005	.002
												.003	.019	.055	.088	.086	.057	.029	.012	.004
32.5											*	.002	.010	.017	.014	.007	.002	.001	*	*
											.001	.010	.038	.064	.055	.028	.010	.003	.001	*
											.003	.024	.085	.136	.117	.063	.024	.007	.002	.001
27.5										*	.001	.007	.013	[.008]	.003	.001	*			
										*	.005	.027	.048	[.034]	.012	.003	*			
										.001	.013	.060	.102	[.078]	.031	.008	.001			
22.5										*	.002	.005	.003	.001	*					
										.001	.009	.019	.012	.003	*					
										.002	.019	.040	.029	.009	.001					
17.5										*	.001	.001	*							
										.001	.004	.002	*							
										.003	.008	.007	.002							
12.5										*	*									
										*	*									
										.001	.001									
07.5																				
02.5																				

5DEG ID = 2510 INITIAL POSITION = 27.5 N 047.5 W NUMBER OF OBS = 12

LATITUDE	LONGITUDE 107.5	102.5	97.5	92.5	87.5	82.5	77.5	72.5	67.5	62.5	57.5	52.5	47.5	42.5	37.5	32.5	27.5	22.5	17.5	12.5
42.5												*	*	*	*	*				
												.001	.002	.002	.001	*				
												.002	.005	.006	.003	.001				
37.5										*	.001	.004	.008	.009	.004	.001	*			
										*	.003	.016	.035	.036	.018	.004	.001			
										.001	.009	.039	.081	.083	.042	.011	.001			
32.5										*	.003	.015	.029	.026	.011	.002	*			
										.001	.013	.058	.112	.100	.042	.009	.001			
										.003	.031	.126	.234	.209	.093	.021	.002			
27.5										*	.002	.007	[.012]	.008	.003	*	*			
										.001	.008	.029	[.047]	.035	.012	.002	*			
										.002	.019	.068	[.109]	.083	.031	.006	.001			
22.5											*	*	*	*	*					
											.001	.002	.002	.001	*					
											.002	.005	.006	.004	.001					
17.5																				
12.5																				
07.5																				
02.5																				

TROPICAL CYCLONE STRIKE PROBABILITIES FOR CIRCULAR AREAS WITH RADII OF ONE, TWO, AND THREE DEGREES LATITUDE
SEASON - SEPTEMBER TIME INTERVAL - 48 HOURS

5DEG ID = 2511 INITIAL POSITION = 27.5 N 052.5 W NUMBER OF OBS = 29

LATITUDE	LONGITUDE 107.5	102.5	97.5	92.5	87.5	82.5	77.5	72.5	67.5	62.5	57.5	52.5	47.5	42.5	37.5	32.5	27.5	22.5	17.5	12.5
42.5										*	.002	.005	.007	.004	.002	*	*			
										.001	.008	.021	.026	.018	.007	.002	*			
										.004	.021	.049	.059	.039	.016	.004	.001			
37.5									*	.003	.014	.023	.017	.006	.001	*				
									.001	.014	.056	.088	.064	.024	.005	.001				
									.004	.036	.124	.186	.136	.055	.013	.002				
32.5								*	.001	.010	.021	.017	.005	.001	*					
								*	.006	.038	.081	.066	.023	.004	*					
								.001	.015	.084	.171	.144	.058	.012	.002					
27.5								*	.001	.005	.005	[.001]	*							
								*	.006	.020	.020	[.007]	.001							
								.001	.014	.044	.048	[.019]	.004							
22.5									*	*	*									
									.001	.002	.001									
									.003	.005	.002									
17.5																				
12.5																				
07.5																				
02.5																				

5DEG ID = 2512 INITIAL POSITION = 27.5 N 057.5 W NUMBER OF OBS = 28

LATITUDE	LONGITUDE 107.5	102.5	97.5	92.5	87.5	82.5	77.5	72.5	67.5	62.5	57.5	52.5	47.5	42.5	37.5	32.5	27.5	22.5	17.5	12.5
42.5								*	.001	.003	.005	.006	.005	.002	.001	*	*			
								.001	.004	.012	.022	.025	.019	.010	.004	.001	*			
								.002	.009	.028	.050	.057	.042	.022	.008	.002	.001			
37.5							*	.001	.004	.010	.015	.013	.007	.002	.001	*				
							*	.003	.016	.041	.059	.050	.027	.010	.003	.001				
							.001	.008	.038	.092	.128	.108	.060	.023	.006	.001				
32.5							*	.002	.007	.015	.014	.008	.003	.001	*					
							.001	.007	.030	.057	.056	.032	.012	.003	*					
							.002	.018	.066	.122	.123	.073	.028	.007	.001					
27.5							*	.002	.005	.007	[.004]	.001	*	*						
							.001	.007	.021	.026	[.017]	.006	.001	*						
							.003	.017	.046	.059	[.040]	.015	.004	.001						
22.5							*	.001	.001	.001	*	*								
							*	.003	.005	.004	.001	*								
							.001	.006	.011	.009	.004	.001								
17.5								*	*											
								*	*											
								.001	.001											
12.5																				
07.5																				
02.5																				

TROPICAL CYCLONE STRIKE PROBABILITIES FOR CIRCULAR AREAS WITH RADII OF ONE, TWO, AND THREE DEGREES LATITUDE
SEASON - SEPTEMBER TIME INTERVAL - 48 HOURS

5DEG ID = 2513 INITIAL POSITION = 27.5 N 062.5 W NUMBER OF OBS = 35

LATITUDE	LONGITUDE 107.5	102.5	97.5	92.5	87.5	82.5	77.5	72.5	67.5	62.5	57.5	52.5	47.5	42.5	37.5	32.5	27.5	22.5	17.5	12.5
42.5								*	*	.001	.002	.002	.001	*						
								*	.001	.006	.009	.007	.003	.001						
								.001	.005	.016	.024	.018	.008	.002						
37.5							*	.001	.007	.017	.017	.008	.002	*						
							*	.004	.028	.066	.065	.031	.008	.001						
							.001	.013	.068	.144	.138	.067	.018	.003						
32.5							*	.006	.022	.028	.014	.003	*							
							.002	.023	.085	.108	.056	.014	.002							
							.006	.055	.178	.224	.126	.035	.005							
27.5							.001	.005	.009	[.005]	.001	*								
							.003	.019	.035	[.020]	.005	.001								
							.008	.043	.079	[.052]	.015	.002								
22.5							*	*	*	*										
							.001	.002	.001	*										
							.002	.006	.005	.001										
17.5																				
12.5																				
07.5																				
02.5																				

5DEG ID = 2514 INITIAL POSITION = 27.5 N 067.5 W NUMBER OF OBS = 70

LATITUDE	LONGITUDE 107.5	102.5	97.5	92.5	87.5	82.5	77.5	72.5	67.5	62.5	57.5	52.5	47.5	42.5	37.5	32.5	27.5	22.5	17.5	12.5
42.5								*	*	.001	.001	.001	*	*						
								*	.002	.005	.006	.004	.002	*						
								.001	.007	.014	.016	.010	.004	.001						
37.5							*	.004	.012	.017	.011	.004	.001	*						
							.002	.017	.051	.066	.044	.018	.005	.001						
							.007	.046	.116	.140	.093	.038	.010	.002						
32.5						*	.006	.022	.027	.015	.004	.001	*							
						.002	.024	.082	.104	.060	.019	.004	.001							
						.007	.058	.171	.214	.134	.048	.011	.002							
27.5					*	.002	.007	.007	[.003]	*	*									
					*	.006	.026	.031	[.014]	.003	*									
					.001	.015	.057	.073	[.039]	.010	.002									
22.5					*	*	*	*												
					*	.002	.002	.001												
					.001	.005	.006	.003												
17.5																				
12.5																				
07.5																				
02.5																				

TROPICAL CYCLONE STRIKE PROBABILITIES FOR CIRCULAR AREAS WITH RADII OF ONE, TWO, AND THREE DEGREES LATITUDE
SEASON - SEPTEMBER TIME INTERVAL - 48 HOURS

5DEG ID = 2515 INITIAL POSITION = 27.5 N 072.5 W NUMBER OF OBS = 69

LATITUDE	LONGITUDE																		
	107.5	102.5	97.5	92.5	87.5	82.5	77.5	72.5	67.5	62.5	57.5	52.5	47.5	42.5	37.5	32.5	27.5	22.5	17.5	12.5
						*	.001	.002	.004	.004	.002	.001	*							
42.5						*	.003	.010	.018	.017	.009	.003	.001							
						.001	.008	.026	.042	.038	.020	.007	.002							
					*	.001	.006	.015	.017	.010	.003	.001	*							
37.5					*	.004	.023	.057	.066	.039	.013	.003	*							
					.001	.011	.055	.125	.140	.084	.030	.007	.001							
					*	.003	.014	.022	.015	.005	.001	*								
32.5					.001	.014	.055	.085	.058	.019	.004	*								
					.003	.033	.119	.180	.127	.047	.010	.001								
					*	.003	.009	[.007]	.002	*	*									
27.5					.002	.014	.034	[.029]	.010	.002	*									
					.005	.032	.075	[.068]	.027	.005	.001									
					*	.001	.001	*	*											
22.5					.001	.004	.005	.002	*											
					.002	.009	.012	.006	.001											
						*														
17.5						*														
						.001														
12.5																				
07.5																				
02.5																				

5DEG ID = 2516 INITIAL POSITION = 27.5 N 077.5 W NUMBER OF OBS = 67

LATITUDE	LONGITUDE																		
	107.5	102.5	97.5	92.5	87.5	82.5	77.5	72.5	67.5	62.5	57.5	52.5	47.5	42.5	37.5	32.5	27.5	22.5	17.5	12.5
					*	*	.001	.003	.003	.002	.001	*	*							
42.5					*	.001	.005	.011	.012	.008	.004	.001	*							
					.001	.004	.014	.025	.027	.019	.009	.003	.001							
				*	.001	.003	.009	.012	.009	.004	.001	*								
37.5				*	.002	.014	.036	.047	.033	.015	.004	.001								
				.001	.007	.034	.081	.101	.072	.033	.010	.002								
				*	.003	.012	.019	.014	.005	.001	*									
32.5				.001	.013	.048	.075	.055	.022	.005	.001									
				.004	.032	.106	.159	.120	.051	.014	.003									
			*	.001	.006	.013	[.010]	.003	.001	*										
27.5			*	.004	.024	.051	[.041]	.015	.003	*										
			.001	.009	.053	.108	[.092]	.037	.008	.001										
			*	.001	.003	.003	.001	*												
22.5			*	.004	.013	.014	.005	.001												
			.001	.009	.030	.032	.013	.002												
				*	*	*														
17.5				.001	.002	.001														
				.003	.005	.002														
12.5																				
07.5																				
02.5																				

TROPICAL CYCLONE STRIKE PROBABILITIES FOR CIRCULAR AREAS WITH RADII OF ONE, TWO, AND THREE DEGREES LATITUDE
SEASON - SEPTEMBER TIME INTERVAL - 48 HOURS

5DEG ID = 2517 INITIAL POSITION = 27.5 N 082.5 W NUMBER OF OBS = 48

LATITUDE	LONGITUDE 107.5	102.5	97.5	92.5	87.5	82.5	77.5	72.5	67.5	62.5	57.5	52.5	47.5	42.5	37.5	32.5	27.5	22.5	17.5	12.5
				*	*	.001	.002	.002	.001	*	*									
42.5				*	.002	.006	.011	.010	.005	.002	*									
				.001	.005	.016	.026	.023	.012	.004	.001									
			*	.001	.006	.015	.016	.009	.003	.001	*									
37.5			*	.004	.025	.058	.062	.034	.011	.002	*									
			.001	.012	.060	.127	.131	.074	.025	.006	.001									
			.001	.006	.020	.025	.013	.004	.001	*										
32.5			.002	.024	.076	.095	.053	.015	.003	*										
			.007	.055	.161	.198	.118	.038	.008	.001										
		*	.001	.006	.010	.005	.001	*												
27.5		*	.005	.025	.038	.021	.005	.001												
		.001	.012	.054	.085	.054	.016	.002												
			*	.001	*	*														
22.5			.002	.004	.002	*														
			.004	.010	.007	.002														
17.5																				
12.5																				
07.5																				
02.5																				

5DEG ID = 2518 INITIAL POSITION = 27.5 N 087.5 W NUMBER OF OBS = 55

LATITUDE	LONGITUDE 107.5	102.5	97.5	92.5	87.5	82.5	77.5	72.5	67.5	62.5	57.5	52.5	47.5	42.5	37.5	32.5	27.5	22.5	17.5	12.5
			*	*	.001	.001	.001	*	*											
42.5			*	.001	.004	.005	.004	.002	.001											
			.001	.004	.010	.014	.011	.005	.001											
		*	.001	.005	.010	.012	.007	.003	.001	*										
37.5		*	.005	.020	.042	.046	.028	.010	.002	*										
		.001	.012	.047	.094	.101	.063	.024	.006	.001										
		.001	.005	.016	.025	.020	.009	.002	*											
32.5		.003	.019	.061	.095	.076	.034	.009	.002											
		.007	.044	.132	.199	.162	.076	.022	.004											
	*	.001	.004	.009	.009	.005	.001	*												
27.5	*	.003	.016	.036	.037	.020	.006	.001												
	.001	.008	.037	.080	.086	.049	.017	.003												
		*	.001	.001	*	*														
22.5		.001	.002	.003	.002	.001														
		.002	.006	.009	.006	.002														
17.5																				
12.5																				
07.5																				
02.5																				

TROPICAL CYCLONE STRIKE PROBABILITIES FOR CIRCULAR AREAS WITH RADII OF ONE, TWO, AND THREE DEGREES LATITUDE
SEASON - SEPTEMBER TIME INTERVAL - 48 HOURS

5DEG ID = 2519 INITIAL POSITION = 27.5 N 092.5 W NUMBER OF OBS = 43

LATITUDE	LONGITUDE 107.5	102.5	97.5	92.5	87.5	82.5	77.5	72.5	67.5	62.5	57.5	52.5	47.5	42.5	37.5	32.5	27.5	22.5	17.5	12.5
			*	.001	.001	.001	*													
42.5			*	.002	.005	.003	.001													
			.002	.007	.012	.008	.003													
		*	.002	.008	.010	.005	.001	*												
37.5		.001	.009	.033	.041	.018	.003	*												
		.002	.024	.077	.091	.042	.008	.001												
		.001	.011	.030	.022	.005	*													
32.5		.004	.044	.113	.084	.021	.002													
		.013	.101	.235	.180	.050	.005													
	*	.002	.013	.021	.008	.001	*													
27.5	*	.007	.052	.081	.033	.004	*													
	.001	.019	.113	.175	.079	.012	.001													
		.001	.003	.002	*															
22.5		.003	.012	.010	.002															
		.007	.029	.027	.006															
		*	*	*																
17.5		*	*	*																
		.001	.001	.001																
12.5																				
07.5																				
02.5																				

5DEG ID = 3009 INITIAL POSITION = 32.5 N 042.5 W NUMBER OF OBS = 21

LATITUDE	LONGITUDE 107.5	102.5	97.5	92.5	87.5	82.5	77.5	72.5	67.5	62.5	57.5	52.5	47.5	42.5	37.5	32.5	27.5	22.5	17.5	12.5
														*	.001	.005	.006	.003	.001	*
42.5														.001	.008	.022	.023	.012	.003	.001
														.004	.027	.058	.053	.026	.007	.001
													.001	.013	.036	.028	.009	.001	*	
37.5													.005	.054	.132	.105	.035	.007	.001	
													.018	.132	.263	.209	.081	.018	.003	
												.001	.011	.025	.010	.001	*			
32.5												.003	.043	.093	.047	.008	.001			
												.010	.092	.188	.122	.029	.003			
											*	.001	.003	.001	*					
27.5											*	.005	.011	.003	*					
											.001	.012	.028	.013	.001					
												*								
22.5												*								
												.001								
17.5																				
12.5																				
07.5																				
02.5																				

TROPICAL CYCLONE STRIKE PROBABILITIES FOR CIRCULAR AREAS WITH RADII OF ONE, TWO, AND THREE DEGREES LATITUDE
SEASON - SEPTEMBER TIME INTERVAL - 48 HOURS

5DEG ID = 3010 INITIAL POSITION = 32.5 N 047.5 W NUMBER OF OBS = 11

LATITUDE	LONGITUDE 107.5	102.5	97.5	92.5	87.5	82.5	77.5	72.5	67.5	62.5	57.5	52.5	47.5	42.5	37.5	32.5	27.5	22.5	17.5	12.5
42.5												*	*	.001	.003	.003	.002	.001	*	
												*	.002	.007	.013	.012	.008	.003	.001	
												.001	.008	.024	.037	.033	.019	.008	.002	
37.5										*	.001	.006	.021	.030	.023	.012	.005	.002	.001	*
										*	.003	.028	.081	.109	.084	.045	.019	.007	.002	.001
										.001	.012	.072	.173	.214	.168	.094	.042	.015	.005	.001
32.5									*	.001	.009	.018	.011	.004	.001	*	*	*		
									*	.005	.035	.066	.048	.019	.005	.001	*	*		
									.001	.014	.073	.134	.116	.057	.019	.006	.002	.001		
27.5									*	.002	.002	*	*							
									.001	.007	.008	.002	*							
									.003	.016	.021	.009	.002							
22.5									*	*										
									*	*										
									.001	.001										
17.5																				
12.5																				
07.5																				
02.5																				

5DEG ID = 3011 INITIAL POSITION = 32.5 N 052.5 W NUMBER OF OBS = 10

LATITUDE	LONGITUDE 107.5	102.5	97.5	92.5	87.5	82.5	77.5	72.5	67.5	62.5	57.5	52.5	47.5	42.5	37.5	32.5	27.5	22.5	17.5	12.5
42.5									*	*	.002	.005	.008	.009	.008	.004	.002	.001	*	
									*	.002	.007	.018	.032	.037	.031	.018	.008	.002	.001	
									.001	.005	.017	.042	.071	.082	.068	.040	.017	.006	.001	
37.5									*	.001	.003	.008	.014	.014	.010	.005	.002	*	*	
									.001	.003	.014	.034	.053	.056	.039	.020	.007	.002	*	
									.001	.008	.031	.074	.116	.121	.087	.044	.016	.004	.001	
32.5									*	.001	.003	.007	.010	.009	.005	.002	.001	*		
									*	.003	.012	.028	.039	.035	.021	.008	.002	.001		
									.001	.008	.028	.062	.086	.078	.047	.020	.006	.001		
27.5									*	*	.001	.002	.003	.002	.001	*	*			
									*	.001	.005	.009	.011	.008	.004	.001	*			
									.001	.003	.011	.022	.026	.020	.010	.003	.001			
22.5										*	*	*	*	*	*					
										*	.001	.001	.001	.001	*					
										.001	.002	.003	.003	.002	.001					
17.5																				
12.5																				
07.5																				
02.5																				

TROPICAL CYCLONE STRIKE PROBABILITIES FOR CIRCULAR AREAS WITH RADII OF ONE, TWO, AND THREE DEGREES LATITUDE
SEASON - SEPTEMBER TIME INTERVAL - 48 HOURS

5DEG ID = 3012 INITIAL POSITION = 32.5 N 057.5 W NUMBER OF OBS = 28

LATITUDE	LONGITUDE 107.5	102.5	97.5	92.5	87.5	82.5	77.5	72.5	67.5	62.5	57.5	52.5	47.5	42.5	37.5	32.5	27.5	22.5	17.5	12.5
							*	*	.002	.006	.012	.014	.012	.007	.002	.001	*			
42.5							*	.002	.009	.025	.046	.057	.047	.026	.010	.002	*			
							.001	.005	.021	.056	.101	.123	.102	.058	.023	.006	.001			
							*	.001	.003	.008	.015	.017	.014	.007	.002	.001	*			
37.5							*	.003	.011	.031	.057	.068	.053	.028	.010	.002	*			
							.001	.006	.026	.070	.123	.146	.116	.063	.023	.006	.001			
								*	.001	.003	[.005]	.006	.004	.002	.001	*				
32.5								.001	.004	.012	[.020]	.023	.017	.008	.003	.001				
								.003	.010	.027	[.047]	.053	.040	.021	.007	.002				
									*	*	*	*	*	*	*					
27.5									*	.001	.002	.002	.001	.001	*					
									.001	.003	.005	.005	.004	.002	.001					
22.5																				
17.5																				
12.5																				
07.5																				
02.5																				

5DEG ID = 3013 INITIAL POSITION = 32.5 N 062.5 W NUMBER OF OBS = 44

LATITUDE	LONGITUDE 107.5	102.5	97.5	92.5	87.5	82.5	77.5	72.5	67.5	62.5	57.5	52.5	47.5	42.5	37.5	32.5	27.5	22.5	17.5	12.5
								*	.001	.004	.011	.014	.009	.003	.001	*				
42.5								*	.003	.017	.045	.054	.035	.014	.004	.001				
								.001	.008	.042	.098	.115	.076	.032	.010	.002				
								*	.003	.014	.018	.009	.002	*	*					
37.5								.001	.015	.054	.069	.037	.010	.002	*					
								.004	.037	.116	.145	.084	.026	.005	.001					
							*	.001	.008	[.014]	.006	.001	*							
32.5							*	.005	.032	[.052]	.026	.005	*							
							.001	.013	.070	[.111]	.063	.015	.002							
							*	.002	.006	.003	*									
27.5							*	.008	.023	.014	.002									
							.001	.018	.048	.033	.007									
							*	.001	.001	*										
22.5							.001	.005	.005	.001										
							.002	.010	.011	.003										
							*	*	*											
17.5							*	.001	*											
							.001	.002	.001											
12.5																				
07.5																				
02.5																				

TROPICAL CYCLONE STRIKE PROBABILITIES FOR CIRCULAR AREAS WITH RADII OF ONE, TWO, AND THREE DEGREES LATITUDE
SEASON - SEPTEMBER TIME INTERVAL - 48 HOURS

5DEG ID = 3014 INITIAL POSITION = 32.5 N 067.5 W NUMBER OF OBS = 59

LATITUDE	LONGITUDE																		
	107.5	102.5	97.5	92.5	87.5	82.5	77.5	72.5	67.5	62.5	57.5	52.5	47.5	42.5	37.5	32.5	27.5	22.5	17.5	12.5
42.5						*	*	.003	.008	.014	.015	.010	.005	.002	.001	*	*			
						*	.002	.012	.033	.055	.057	.040	.021	.008	.003	.001	*				
						.001	.006	.028	.075	.119	.121	.086	.045	.019	.007	.002	.001				
37.5						*	.002	.008	.015	.015	.009	.004	.001	*	*						
						.001	.008	.030	.057	.058	.037	.016	.005	.001	*						
						.003	.019	.067	.121	.126	.083	.039	.014	.004	.001						
32.5						*	.003	.006	.007	.004	.001	*	*								
						.002	.011	.025	.026	.015	.005	.001	*								
						.005	.024	.054	.060	.036	.014	.004	.001								
27.5						*	.001	.001	.001	*											
						.001	.005	.006	.003	.001											
						.003	.011	.013	.008	.002											
22.5						*	*	*													
						*	.001	*													
						.001	.001	.001													
17.5																					
12.5																					
07.5																					
02.5																					

5DEG ID = 3015 INITIAL POSITION = 32.5 N 072.5 W NUMBER OF OBS = 51

LATITUDE	LONGITUDE																		
	107.5	102.5	97.5	92.5	87.5	82.5	77.5	72.5	67.5	62.5	57.5	52.5	47.5	42.5	37.5	32.5	27.5	22.5	17.5	12.5
42.5						*	.003	.012	.021	.021	.012	.005	.001	*						
						.002	.015	.049	.083	.079	.047	.018	.005	.001						
						.006	.037	.110	.176	.166	.099	.040	.012	.002						
37.5					*	.002	.010	.020	.019	.011	.004	.001	*							
					.001	.009	.040	.077	.076	.043	.016	.004	.001							
					.002	.022	.087	.161	.164	.100	.040	.012	.003							
32.5					*	.002	.003	.003	.001	*	*									
					.001	.006	.013	.012	.006	.002	*									
					.003	.014	.031	.032	.018	.006	.001									
27.5						*	*	*												
						*	*	*												
						.001	.001	.001												
22.5																				
17.5																				
12.5																				
07.5																				
02.5																				

TROPICAL CYCLONE STRIKE PROBABILITIES FOR CIRCULAR AREAS WITH RADII OF ONE, TWO, AND THREE DEGREES LATITUDE
SEASON - SEPTEMBER TIME INTERVAL - 48 HOURS

5DEG ID = 3016 INITIAL POSITION = 32.5 N 077.5 W NUMBER OF OBS = 24

LATITUDE	LONGITUDE																			
	107.5	102.5	97.5	92.5	87.5	82.5	77.5	72.5	67.5	62.5	57.5	52.5	47.5	42.5	37.5	32.5	27.5	22.5	17.5	12.5
						*	.002	.008	.016	.016	.008	.002	*	*							
42.5						.001	.008	.032	.062	.062	.033	.010	.002	*							
						.003	.020	.072	.134	.133	.074	.025	.005	.001							
						*	.002	.007	.011	.007	.002	*	*								
37.5						.001	.008	.029	.044	.030	.010	.002	*								
						.003	.020	.064	.095	.067	.025	.005	.001								
						*	.001	.003	.003	.001	*										
32.5						.001	.004	.013	.013	.006	.001										
						.001	.010	.028	.031	.014	.003										
							*	.001	*	*											
27.5							.001	.002	.002	*											
							.003	.006	.004	.001											
22.5																					
17.5																					
12.5																					
07.5																					
02.5																					

5DEG ID = 3017 INITIAL POSITION = 32.5 N 082.5 W NUMBER OF OBS = 20

LATITUDE	LONGITUDE																			
	107.5	102.5	97.5	92.5	87.5	82.5	77.5	72.5	67.5	62.5	57.5	52.5	47.5	42.5	37.5	32.5	27.5	22.5	17.5	12.5
				*	.001	.005	.011	.016	.015	.010	.005	.003	.001	*	*					
42.5				*	.005	.020	.046	.061	.056	.038	.021	.010	.004	.002	.001					
				.002	.013	.050	.102	.130	.116	.080	.045	.022	.010	.004	.001					
			*	.002	.008	.017	.017	.010	.005	.002	.001	*	*	*						
37.5			.001	.007	.033	.065	.066	.042	.020	.008	.003	.001	*	*						
			.002	.019	.073	.134	.139	.096	.049	.022	.009	.004	.001	.001						
		*	.001	.005	.007	.005	.001	*	*											
32.5		*	.003	.018	.029	.020	.007	.002	*											
		.001	.009	.037	.062	.048	.021	.006	.002											
		*	.001	.001	*	*														
27.5		.001	.004	.005	.002	*														
		.001	.008	.013	.007	.002														
		*	*	*																
22.5		*	.001	*																
		.001	.001	.001																
17.5																				
12.5																				
07.5																				
02.5																				

TROPICAL CYCLONE STRIKE PROBABILITIES FOR CIRCULAR AREAS WITH RADII OF ONE, TWO, AND THREE DEGREES LATITUDE
SEASON - SEPTEMBER TIME INTERVAL - 48 HOURS

5DEG ID = 3018 INITIAL POSITION = 32.5 N 087.5 W NUMBER OF OBS = 11

LATITUDE	LONGITUDE 107.5	102.5	97.5	92.5	87.5	82.5	77.5	72.5	67.5	62.5	57.5	52.5	47.5	42.5	37.5	32.5	27.5	22.5	17.5	12.5
42.5			*	.005	.020	.023	.007	*												
			.002	.020	.077	.092	.031	.003												
			.005	.048	.166	.202	.079	.009												
37.5			*	.003	.022	.046	.022	.002	*											
			.001	.012	.086	.172	.086	.010	*											
			.002	.034	.193	.345	.186	.027	.001											
32.5				*	.001	.004	.004	.001												
				*	.005	.020	.017	.003												
				.002	.018	.055	.044	.008												
27.5							*													
							*													
							.001													
22.5																				
17.5																				
12.5																				
07.5																				
02.5																				

5DEG ID = 3511 INITIAL POSITION = 37.5 N 052.5 W NUMBER OF OBS = 11

LATITUDE	LONGITUDE 107.5	102.5	97.5	92.5	87.5	82.5	77.5	72.5	67.5	62.5	57.5	52.5	47.5	42.5	37.5	32.5	27.5	22.5	17.5	12.5
42.5												*	.002	.016	.022	.006	*			
												*	.010	.064	.085	.026	.002			
												.001	.028	.139	.178	.066	.007			
37.5												*	.002	.012	.007	.001				
												*	.010	.046	.030	.003				
												.001	.027	.096	.071	.011				
32.5												*	.001	.003	.001	*				
												*	.005	.014	.004	*				
												.001	.013	.030	.011	.001				
27.5													*	*	*					
													.001	.002	*					
													.003	.004	.001					
22.5																				
17.5																				
12.5																				
07.5																				
02.5																				

TROPICAL CYCLONE STRIKE PROBABILITIES FOR CIRCULAR AREAS WITH RADII OF ONE, TWO, AND THREE DEGREES LATITUDE
SEASON - SEPTEMBER TIME INTERVAL - 48 HOURS

5DEG ID = 3512 INITIAL POSITION = 37.5 N 057.5 W NUMBER OF OBS = 25

LATITUDE	LONGITUDE 107.5	102.5	97.5	92.5	87.5	82.5	77.5	72.5	67.5	62.5	57.5	52.5	47.5	42.5	37.5	32.5	27.5	22.5	17.5	12.5
									*	.001	.003	.009	.014	.013	.007	.002	.001	*		
42.5									*	.002	.012	.035	.055	.050	.028	.010	.003	.001		
									.001	.006	.029	.078	.118	.108	.063	.025	.007	.002		
									*	.001	.003	.008	.009	.005	.002	*	*			
37.5									*	.003	.013	.031	.036	.022	.008	.002	*			
									.001	.007	.030	.067	.078	.051	.020	.005	.001			
										*	.002	.003	.003	.001	*					
32.5										.002	.007	.013	.011	.004	.001					
										.004	.017	.030	.025	.010	.002					
										*	*	.001	*	*						
27.5										.001	.002	.003	.001	*						
										.001	.005	.006	.003	.001						
											*	*								
22.5											*	*								
											.001	.001								
17.5																				
12.5																				
07.5																				
02.5																				

5DEG ID = 3513 INITIAL POSITION = 37.5 N 062.5 W NUMBER OF OBS = 32

LATITUDE	LONGITUDE 107.5	102.5	97.5	92.5	87.5	82.5	77.5	72.5	67.5	62.5	57.5	52.5	47.5	42.5	37.5	32.5	27.5	22.5	17.5	12.5
							*	.001	.004	.009	.013	.012	.008	.004	.002	.001	*	*		
42.5							*	.003	.015	.035	.051	.047	.031	.015	.006	.002	.001	*		
							.001	.008	.034	.078	.109	.102	.069	.036	.015	.006	.002	.001		
							*	.002	.006	.009	.008	.004	.002	*	*					
37.5							.001	.007	.022	.036	.033	.018	.007	.002	.001					
							.003	.016	.049	.078	.072	.043	.018	.006	.002					
							*	.002	.004	.003	.002	*	*							
32.5							.001	.007	.015	.014	.007	.002	*							
							.003	.016	.032	.032	.017	.006	.001							
							*	.001	.001	*	*									
27.5							.001	.003	.004	.002	*									
							.002	.007	.009	.005	.001									
							*	*	*											
22.5							*	.001	*											
							.001	.001	.001											
17.5																				
12.5																				
07.5																				
02.5																				

TROPICAL CYCLONE STRIKE PROBABILITIES FOR CIRCULAR AREAS WITH RADII OF ONE, TWO, AND THREE DEGREES LATITUDE
SEASON - SEPTEMBER TIME INTERVAL - 48 HOURS

5DEG ID = 3514 INITIAL POSITION = 37.5 N 067.5 W NUMBER OF OBS = 29

LATITUDE	LONGITUDE																		
	107.5	102.5	97.5	92.5	87.5	82.5	77.5	72.5	67.5	62.5	57.5	52.5	47.5	42.5	37.5	32.5	27.5	22.5	17.5	12.5
						*	.001	.004	.010	.013	.011	.006	.003	.001	*	*	*			
42.5						*	.004	.018	.040	.051	.042	.025	.011	.004	.002	.001	*			
						.001	.010	.041	.086	.110	.093	.057	.027	.011	.004	.002	.001			
						*	.002	.006	.007	.005	.002	.001	*	*						
37.5						.001	.008	.022	.028	.019	.008	.003	.001	*						
						.003	.019	.047	.061	.045	.021	.007	.002	.001						
						*	.002	.002	.001	*	*									
32.5						.002	.006	.009	.005	.002	*									
						.004	.014	.020	.014	.005	.001									
						*	*	*	*											
27.5						.001	.002	.001	*											
						.002	.004	.003	.001											
22.5																				
17.5																				
12.5																				
07.5																				
02.5																				

5DEG ID = 3515 INITIAL POSITION = 37.5 N 072.5 W NUMBER OF OBS = 23

LATITUDE	LONGITUDE																		
	107.5	102.5	97.5	92.5	87.5	82.5	77.5	72.5	67.5	62.5	57.5	52.5	47.5	42.5	37.5	32.5	27.5	22.5	17.5	12.5
							*	.003	.009	.014	.012	.006	.002	*	*					
42.5							.002	.012	.035	.055	.047	.024	.008	.002	*					
							.005	.028	.078	.118	.103	.055	.019	.005	.001					
						*	.001	.003	.008	.009	.004	.001	*							
37.5						*	.002	.013	.031	.034	.018	.005	.001							
						.001	.006	.031	.068	.074	.042	.014	.003							
							*	.002	.003	.002	.001	*								
32.5							.002	.008	.014	.009	.003	*								
							.004	.018	.030	.021	.007	.001								
							*	.001	.001	*										
27.5							.001	.002	.003	.001										
							.002	.006	.006	.003										
								*	*											
22.5								*	*											
								.001	.001											
17.5																				
12.5																				
07.5																				
02.5																				