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Based on Combined GASP
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Preface

This report contains data obtained both by the Global Atmospheric Sampling Program (GASP) and from existing ozonesonde measurements. Many of these were taken after the publication of Federal Aviation Administration (FAA) Report FAA-EQ-78-03, "Guidelines for Flight Planning During Periods of High Ozone Occurrence," in January 1978.

The FAA has published Advisory Circular 120-38, "Transport Category Airplanes Cabin Ozone Concentrations," dated October 10, 1980. (Copies of this advisory circular can be obtained free of charge from the United States Department of Transportation, Publications Section M-443.1, Washington, D.C. 20590.) In this advisory circular, examples are presented for acceptable (but not the only) means for an air carrier to demonstrate compliance with the maximum permissible cabin ozone concentrations established by Section 121.578 of the Federal Aviation Regulations (FAR). In paragraph 6 and Appendix 2 of the advisory circular, it is stated that any ozone data set used to show compliance must have, as a minimum, a resolution on a monthly basis of 2000 feet in altitude and 5 degrees in latitude.

The tabulations in this report have not been statistically compared with those published in FAA Report FAA-EQ-78-03 to determine the spatial and temporal differences, if any, between the tabulations. Hence, use of the data in this report to show compliance with Section 121.578 of the FAR is not acceptable.

Since these data sets have been compiled, however, the FAA would like to disseminate them at this time as information to the scientific community and other interested groups.

John E. Wesler
Director of Environment and Energy
Federal Aviation Administration

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Summary

A climatology of ozone for altitudes from FL190 to FL590 (19 000 to 59 000 feet) is presented. Climatological tables are given in two appendixes: one with 5° latitude resolution on a monthly basis, and one with 10° latitude resolution on a seasonal basis. Data were taken from 11 472 balloon-borne ozonesondes launched at 60 stations from 1963 to 1980 and from Global Atmospheric Sampling Program measurements made on 4417 commercial airliner flights from 1975 to 1979. Case study and statistical comparisons of results from these two data sets showed that they are compatible and can be combined. The GASP data used were limited to statistically independent observations.

Several examples of analyses that can be made by using the tabulated data are given and discussed. These examples illustrate the principal components of the variability of ozone, namely that, at airliner cruise altitudes, ambient ozone concentrations generally increase with both increasing altitude and latitude and are highest in the spring. The ambient ozone climatology presented in this report will help identify regions where high ambient ozone is likely and can be used to estimate the statistical probability that a given level would be encountered.

Introduction

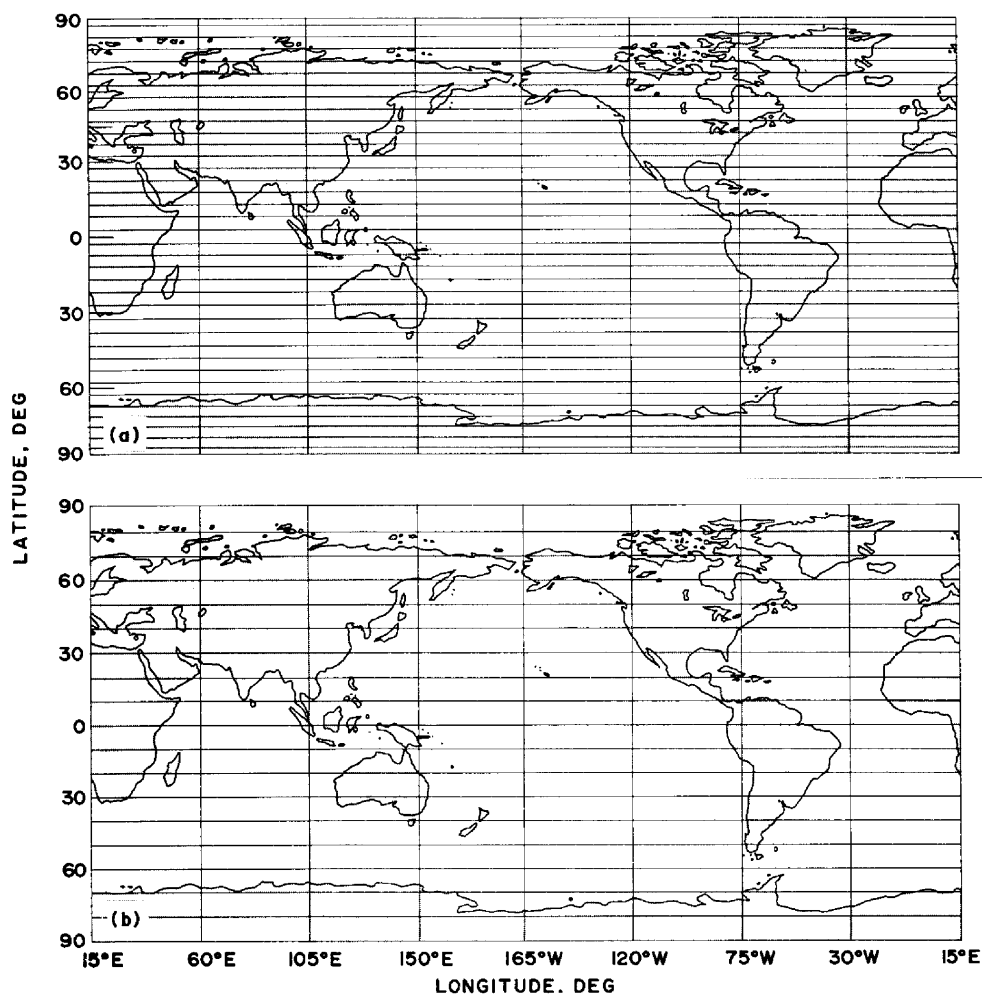
Next to water vapor, ozone is perhaps the most widely publicized trace gas in the atmosphere. Ozone in the very high atmosphere provides a life-protecting shield against harmful ultraviolet radiation, but ozone can also be a poison when encountered directly and breathed in sufficiently large doses. As noted in reference 1, aircraft passengers could be exposed to potentially harmful levels of ozone unless precautions are taken either to avoid regions of high ambient (outside air) ozone levels or to destroy the ozone in the cabin air. This report presents a climatology of ozone at airliner cruise altitudes (FL190 to FL590; 19 000 to 59 000 ft) to help define regions where high ambient ozone levels are likely.

Two separate data sets were used to produce the ambient ozone climatology presented in this report. The

first set consists of measurements taken at cruise altitudes by four Boeing 747 (B747) airliners in routine commercial service as part of the NASA Global Atmospheric Sampling Program (GASP); references 2 and 3. The other set consists of balloon-borne ozonesonde measurements taken at 60 stations over the globe. The GASP and ozonesonde data are discussed in the following two sections. Climatological results from earlier portions of these two data sets are presented separately in references 4 to 8, and they were used separately to study ozone levels during the winter of 1976–77 (ref. 9). They were not previously merged to provide a single comprehensive data set because of concern that the measurement techniques might be incompatible even though early spot comparisons (refs. 10 and 11) were favorable. The results from these two data sets have now been compared, both on a case study basis and on an overall statistical basis, and these comparisons are presented. It was concluded that the two sets can be combined to provide the most complete ozone climatology currently available for present and expected airline cruise altitudes.

It is now possible to obtain ozone distributions in the lower stratosphere on an almost worldwide basis from satellite-borne instruments operating in a limb-sounding mode. For example, reference 12 compares ozone concentrations inferred from the LIMS instrument aboard the NIMBUS 7 satellite with those obtained from ozonesondes. To date, the agreement is of the order of 20 percent. After further validation of the remote-sensing technique, it should be possible to use the satellite data to derive a truly global ozone climatology.

For some applications, it is desirable to examine the data at the finest space and time resolution possible; for other applications it is necessary to use coarser resolution in order to obtain more stable statistics. To accommodate each of these needs, the climatology is presented on a monthly basis with 5° latitude resolution in appendix A and on a seasonal basis with 10° latitude resolution in appendix B. To help orient the reader, the grids used in preparing the data shown in the appendixes are presented in figure 1 with geographic background. In this report the appendixes are described and examples of ozone climatological presentations derived from them are discussed.



(a) Appendix A grid. (b) Appendix B grid.
 Figure 1. – Example of data grid with continental background.

GASP Data

The data acquisition phase of the NASA Global Atmospheric Sampling Program (GASP) ran from March 1975 to July 1979. During this period, up to four commercial Boeing 747 (B747) aircraft flew instrumentation to sample and record atmospheric trace constituents (including ozone) and meteorological data (refs. 2 and 3). These aircraft (one from United Airlines, two from Pan American World Airways, and one from Qantas Airways of Australia) were in routine service along regularly scheduled routes and obtained over 160 000 ozone observations. The frequency of flights on routes on which ozone was measured is given in table I. There were 4417 GASP ozone flights on 234 separate routes. Most of these routes were in the United States (including Hawaii) or were from the United States to Europe or Japan. However, there also were several flights from the Northern to the Southern Hemisphere, within the Southern Hemisphere, and between cities along the southern rim of Asia and even some into

Africa. Case studies of some of the early data from GASP can be found in reference 13.

The GASP system was automated to record data at 5- or 10-minute intervals during flight above FL190 (19 000 ft; to be consistent with usual airline terminology altitudes are given as FL's herein). When turbulence was encountered, or on selected entire flights, data were recorded at 4-second intervals (ref. 14), but in this report these data were averaged over 1-minute intervals.

Ozone measurements were made by using ultraviolet absorption photometers specially modified to operate in the airborne environment. The instrument's range was from 0.003 to 20 ppmv (parts per million by volume), and its random error was 4 percent of reading or 0.003 ppmv, whichever was greater (ref. 15). In all, over 160 000 ozone observations were made during GASP. Time-series plots of the ambient (atmospheric) ozone for flights that also had cabin ozone data are given in references 16 and 17. Additional information on the GASP ozone measurement system can be found in references 7, 8, 14, 16, and 17.

At GASP airliner cruise altitudes, ozone levels are influenced by the large-scale weather systems (ref. 6). Thus, not all of the ozone observations on each flight provided independent information even though they were usually spaced at 5- to 10-minute (about 75- to 150-km) intervals. For climatological purposes it is important to use only independent observations so that the results are not biased by just a few days or incidents.

The distance between independent observations is twice the integral space scale (e.g., ref. 18), which was estimated to be 135 km in an earlier study (ref. 19) from the average spatial autocorrelation function of ozone from 111 selected flights. Along each GASP flight used herein, ozone data were considered to be independent within each grid box if they were separated by 270 km or more. This distance corresponds to nearly 20 minutes of flight time. The grid boxes for each month (or season) are 2000 feet in altitude by 45° longitude by either 5° or 10° latitude (appendixes A and B, respectively). About 40 percent of the total GASP ozone data were interpreted as independent and used in forming the tabulations.

The GASP data are available to the public on magnetic computer tape from the National Climatic Center, Federal Building, Asheville, North Carolina 28801. The tapes are identified as VL0001 to VL0031 and include all data from March 11, 1975, to July 12, 1979. Information on tape contents, dates of data, or formats can be found in reference 20 and references therein.

Ozonesonde Data

Vertical profiles of ozone measured by balloon-borne ozonesondes from 1963 to April 1980 were obtained. A total of 11 472 profiles from 60 stations were collected, although periods of record and frequency of measurement varied greatly from station to station. Tabulations of these data in a format analogous to the GASP tabulations are presented in reference 5 along with a description of the data sources.

Most of the ozonesonde data were collected over North America, Western Europe, Australia, and Japan. Additional data came from Antarctica, India, Central and South America, and a few islands and ships. Table II presents the number of ozonesonde ascents and the period of record for each of the ozonesonde stations. With relatively few exceptions, ozonesondes tended to be launched at least a day apart. Each ascent is assumed to provide an independent ozone profile.

Several different types of ozonesonde instruments were used at the different stations, and each instrument had different error characteristics. For example, random errors associated with the Brewer-mast electrochemical sonde and the Komhyr electrochemical concentration cell sonde range from 4 to 8 percent of value (ref. 21). Other

sondes may have larger errors; for example, reference 22 points out that chemiluminescent cell sonde data are 50 percent too low in the troposphere. Because of the widely differing errors, no attempt was made in this study to correct the reported ozonesonde data.

GASP-Ozonesonde Data Comparison

Ozonesondes are useful because they provide a vertical profile of the ozone distribution above a station at a given time. These data are, however, generally restricted to land areas. Most of the ozonesonde profiles have been obtained by ascents over North America, Western Europe, and Japan. The GASP data have the advantage of being collected over both continents and oceans and are concentrated along major commercial aircraft flight corridors. Their disadvantage, at least from the broad perspective, is that relatively few levels of the atmosphere are sampled. Because both of these data sets are quite large, it would be desirable to combine them in order to provide the most comprehensive compilation of ozone data possible. The feasibility of such a combination is addressed for the first time in this report.

Before the data were combined, measurements made by the two systems were compared to investigate the feasibility of the combination. This section presents two approaches to comparing these measurements: a case study comparison between individual GASP flights and ozonesonde profiles, and a comparison between the statistics of the gridded ozonesonde and GASP data.

Case Study Comparisons

All GASP flights with ozone measurements and all ozonesonde flights were compared to find any that coincided in time and space. All GASP flights that came within 3° latitude and 6° longitude of an ozonesonde station within 6 hours of an ozonesonde launch were tagged. This resulted in the identification of 175 "proximity" ozonesonde soundings.

An attempt to relate the difference between the GASP ozone and ozonesonde measurements to the time or space separation was unsuccessful. The reason for this lack of success is that ozone in the lower stratosphere has a large amount of spatial structure. Synoptic circulations can change the local and regional ozone concentrations very quickly. Because of this problem, about three dozen individual case study comparisons were made in detail. The examples presented in figures 2 to 9 and discussed in the next few paragraphs have been chosen to illustrate typical comparisons between the GASP and ozonesonde measurements.

The left side of each figure depicts the aircraft position and height and the ozone concentration measured along the GASP flight as a function of time. The location or

locations of the relevant ozonesonde station or stations are represented by a circle in the position portion of the figure. The right side of each figure presents a portion of the "proximity" ozonesonde profile. The aircraft height or heights are represented by a horizontal line in the right diagram. A line enclosed by parentheses representing the range of ozone values measured by the GASP aircraft and an "X" indicating a subjective "expected" value are also included at this level or these levels.

Figures 2 and 3 present two cases where the airplane was flying in the troposphere. These figures show variation in the GASP-measured ozone even though the concentrations are small. Figure 2 shows that there are differences in the ozone profiles measured by two sondes launched about 32 km and 1 hour apart. A characteristic that was frequently observed, and is apparent in figure 3, is that for low ozone concentrations (<0.05 ppmv) the ozonesonde typically measured lower values than the GASP instrumentation.¹

Figure 4 shows an appreciable change in ozone concentration along a level flightpath. The magnitude of the ozone concentration indicates that the aircraft was flying in the lower stratosphere but was near the

¹The ozonesonde data in fig. 3 are from an electrochemical concentration cell. Although no measurement biases are known for this type of sonde, for some types, especially the chemiluminescent sondes, the reported tropospheric ozone values are about 50 percent too small (ref. 22).

tropopause at the end of the flight segment. There is excellent correspondence between the time, location, and ozone concentration at the comparison point.

Figures 5 and 6 show examples with large ozone concentrations, substantial horizontal and vertical structure, and (particularly in fig. 6) large vertical ozone gradients. Each of these cases shows excellent agreement between the GASP and sonde measurements.

Figures 7 and 8 illustrate cases where there are very large amounts of horizontal structure even though the vertical profiles show relatively constant gradients of ozone with heights. Figure 8 shows large horizontal ozone structure at both flight levels.

Figure 9 is included to show the very large differences in ozone concentration that can be found over small space and time separations. Measurements of ozone in the lower stratosphere made by pairs of ozonesondes launched from both Cold Lake and Edmonton, Alberta, Canada, show little relation to one another. The differences observed in the ozonesonde measurements are reflected by large horizontal gradients in the GASP measurements made along a single flight level.

These examples have been presented to illustrate typical case comparisons between the GASP ozone measurements and proximate ozonesonde soundings. The empirical information that they provide shows good evidence that the measurements made with the two systems are consistent and complement each other. These

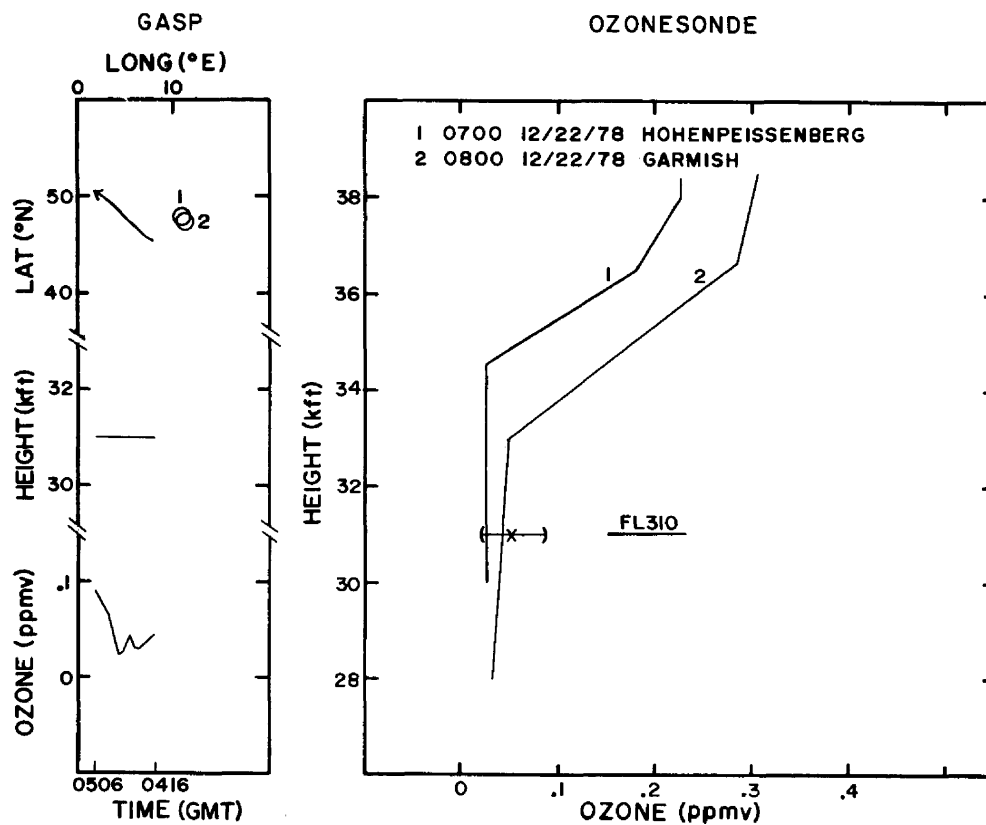


Figure 2. - GASP and ozonesonde proximity measurement comparison over Germany, December 22, 1978.

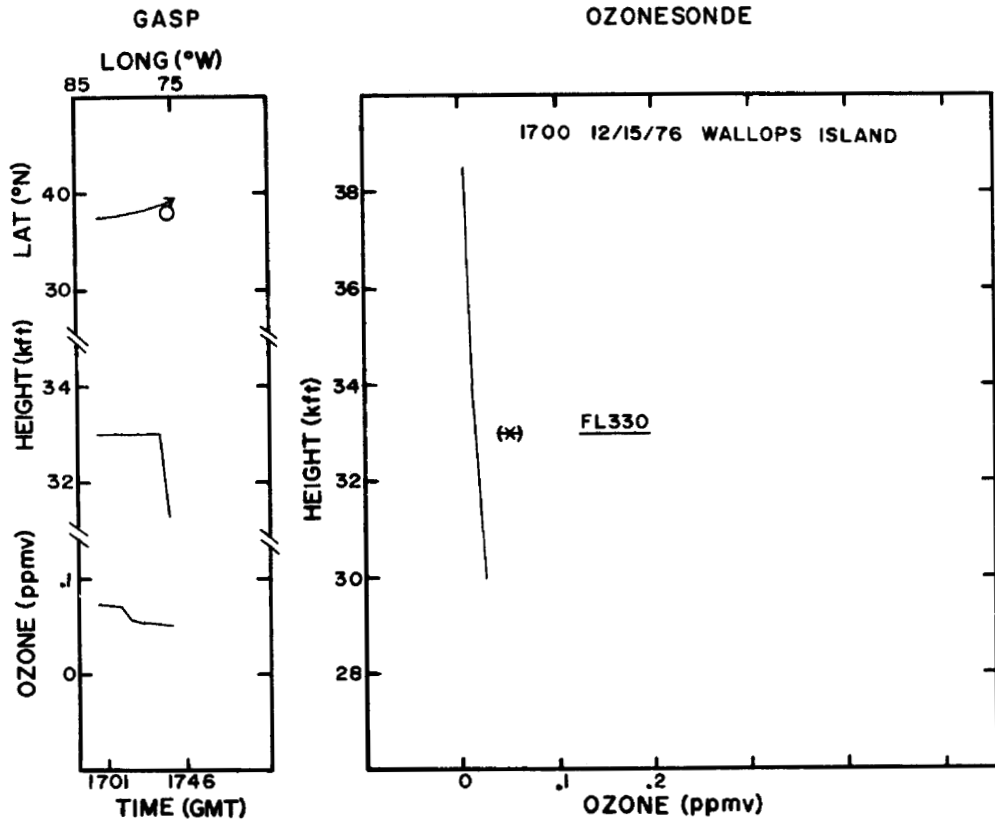


Figure 3. - GASP and ozonesonde proximity measurement comparison over eastern United States, December 15, 1976.

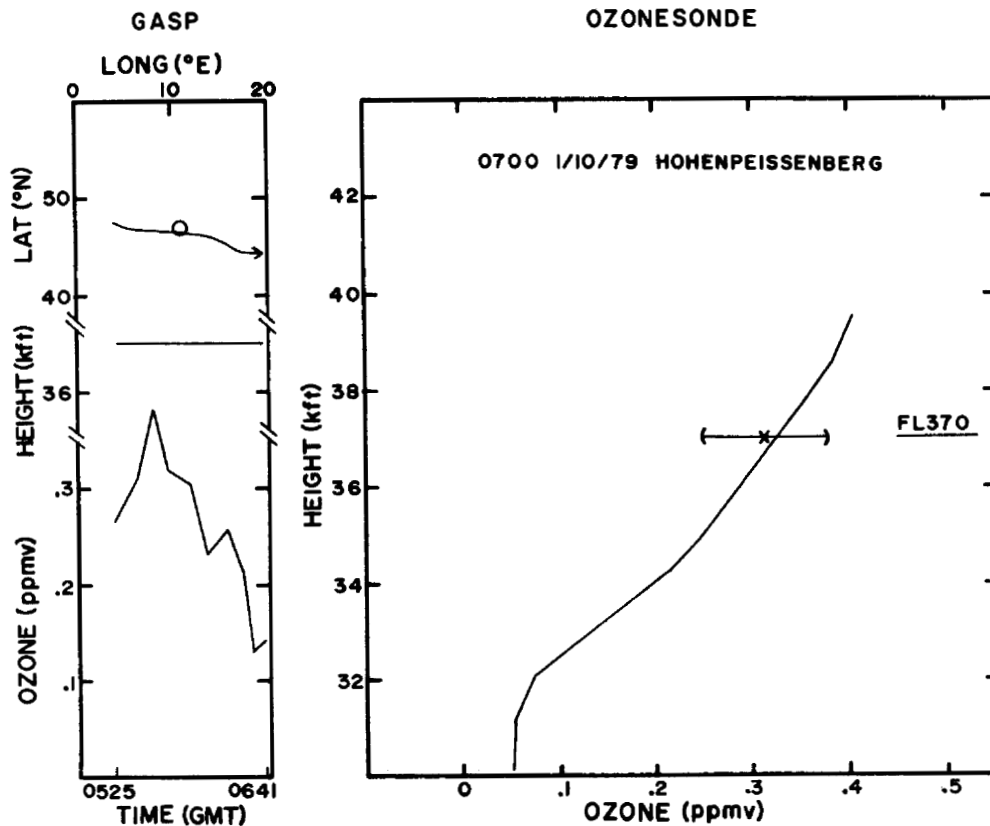


Figure 4. - GASP and ozonesonde proximity measurement comparison over Germany, January 10, 1979.

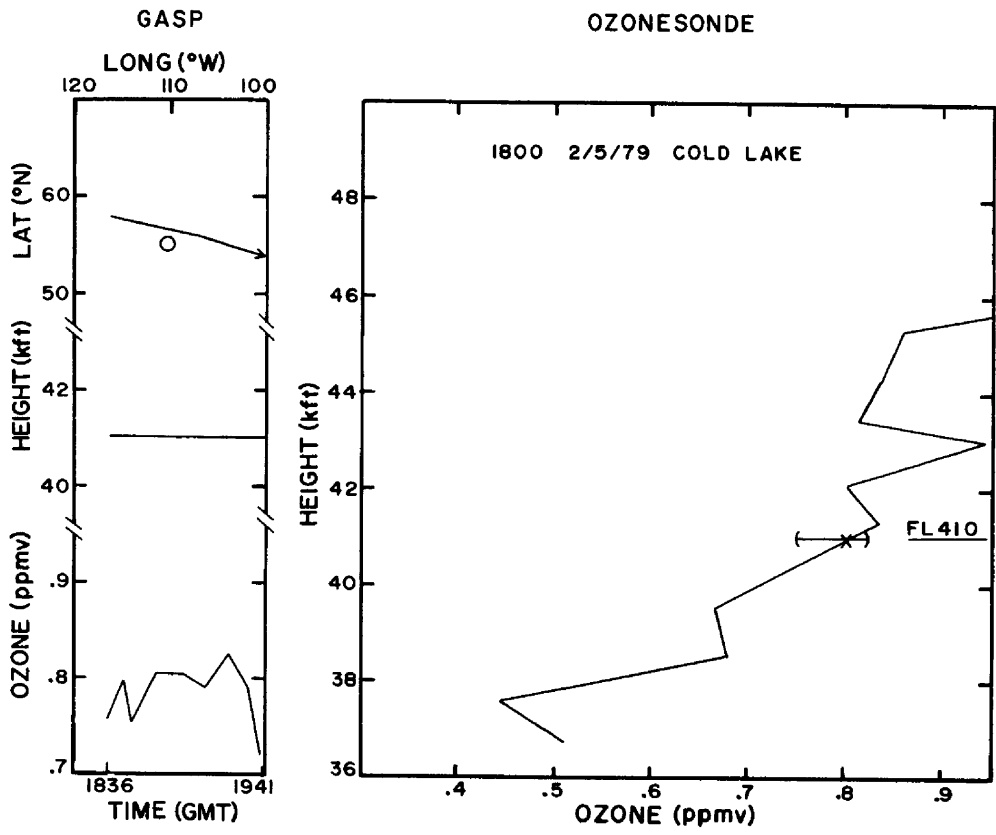


Figure 5. - GASP and ozonesonde proximity measurement comparison over western Canada, February 5, 1979.

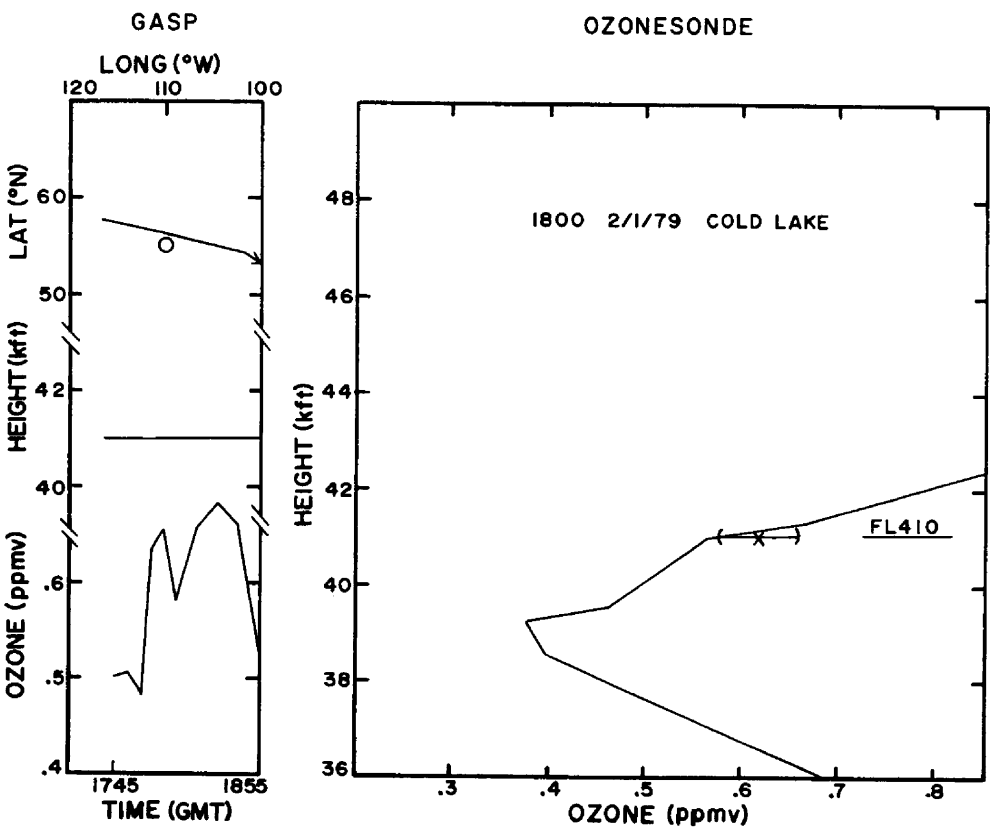


Figure 6. - GASP and ozonesonde proximity measurement comparison over western Canada, February 1, 1979.

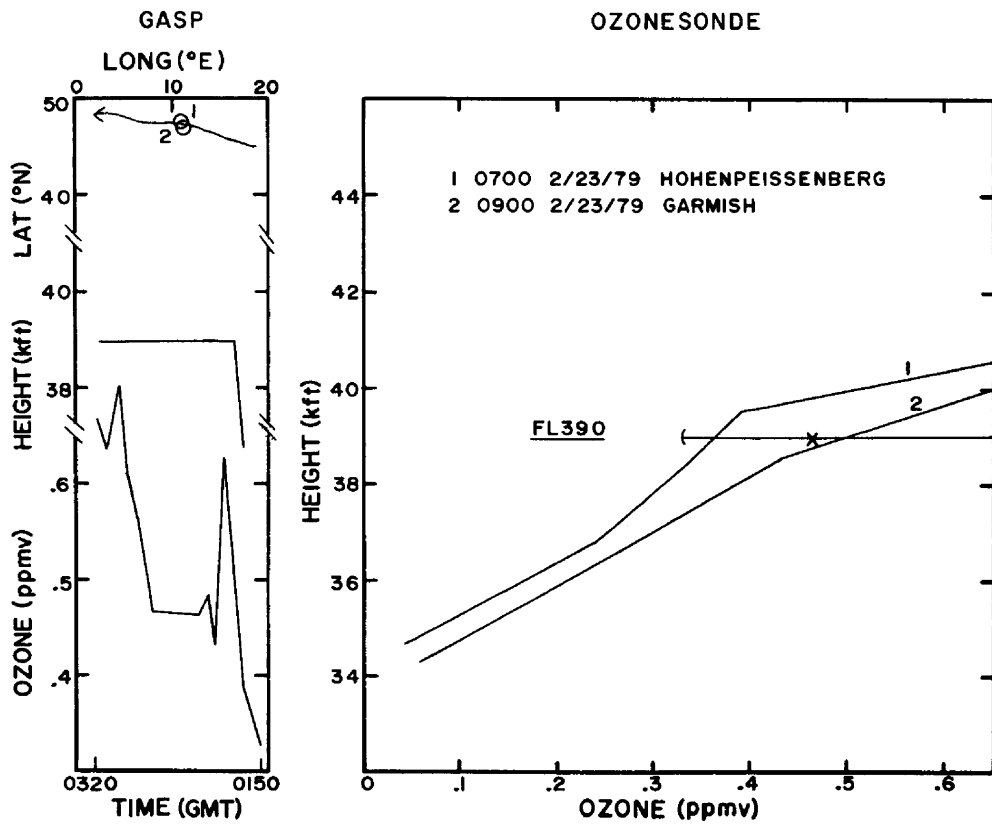


Figure 7. - GASP and ozonesonde proximity measurement comparison over Germany, February 23, 1979.

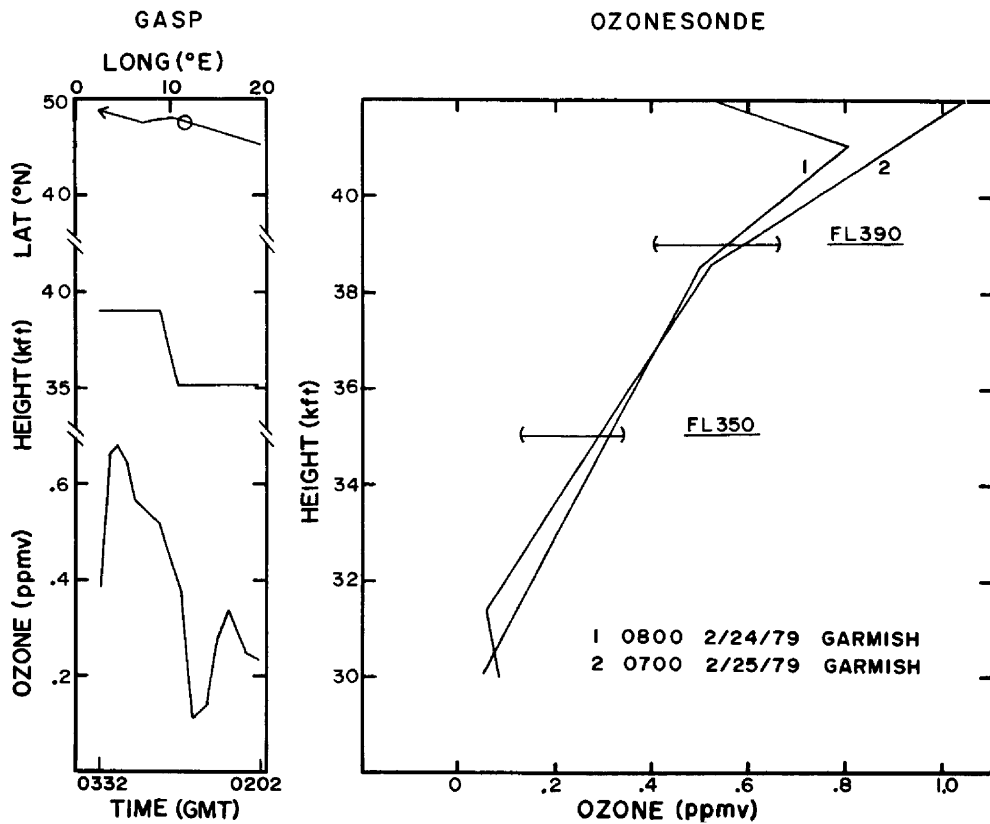


Figure 8. - GASP and ozonesonde proximity measurement comparison over Germany, February 24, 1979.

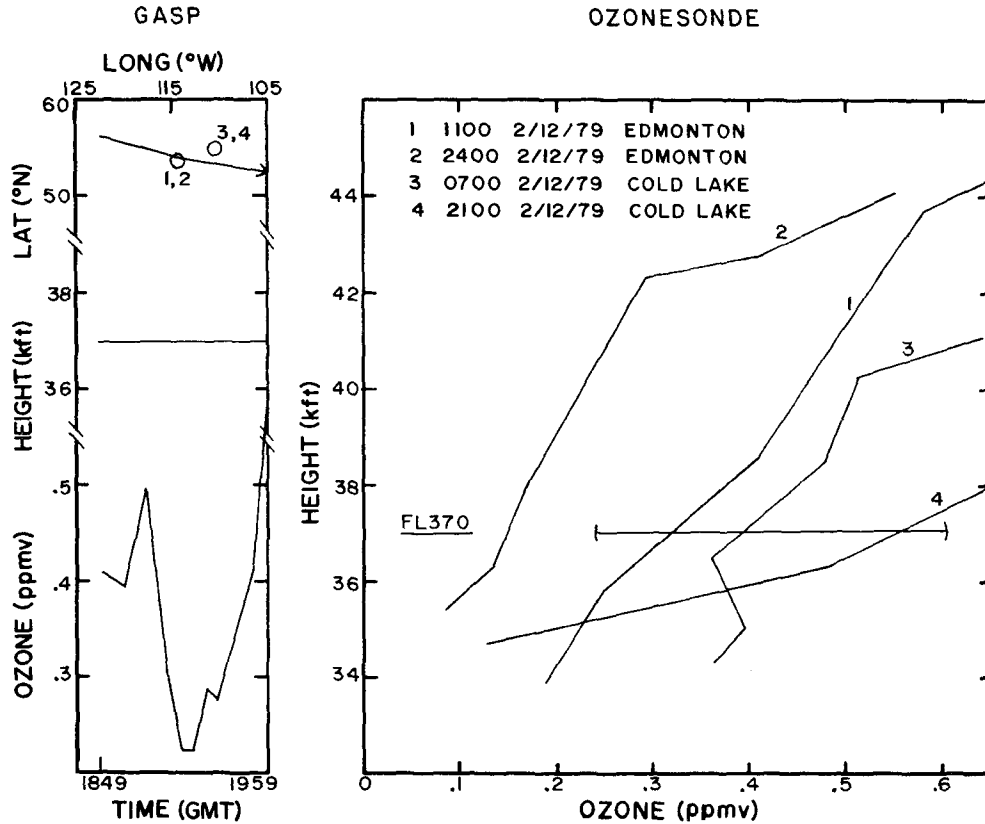


Figure 9. - GASP and ozonesonde proximity measurement comparison over western Canada, February 12, 1979.

case study comparisons show no evidence that the two measurement systems are incompatible.

Statistics Comparison

The statistics between the gridded GASP and ozonesonde data were also compared. These expand on other comparisons made in reference 9. Figure 10 presents the mean ozone profiles from both ozonesondes and GASP for 15° E to 30° W longitudes and 40° N to 50° N latitudes in spring (March, April, May). The ozonesonde profile is composed of 695 soundings (1963-80); the GASP profile is composed of 8 to 54 data points (1975-79), depending on the level. These profiles agree very well.

Figures 11(a) and (b) present the mean winter ozone profiles for 15° E to 30° W longitudes and 40° N to 50° N and 50° N to 60° N latitudes, respectively. Figure 11(a) shows that the mean ozone as measured by GASP has a small but relatively constant high-side bias of about 0.02 ppmv, but the profiles in figure 11(b) agree with each other very well. The standard deviations at each level are much larger than the differences between the means.

Figures 12(a) and (b) compare mean winter ozone profiles for 75° W to 120° W longitudes and 30° N to 40° N and 40° N to 50° N latitudes, respectively. Figure 13 compares mean spring ozone profiles for these latitudes and longitudes. The comparisons are good.

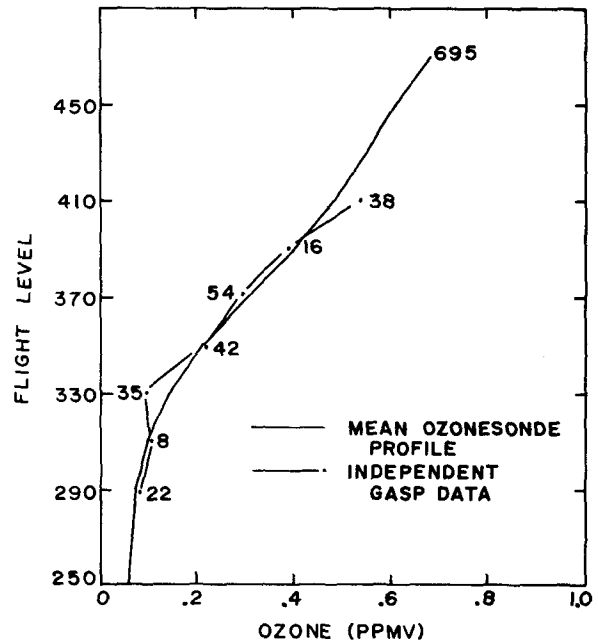
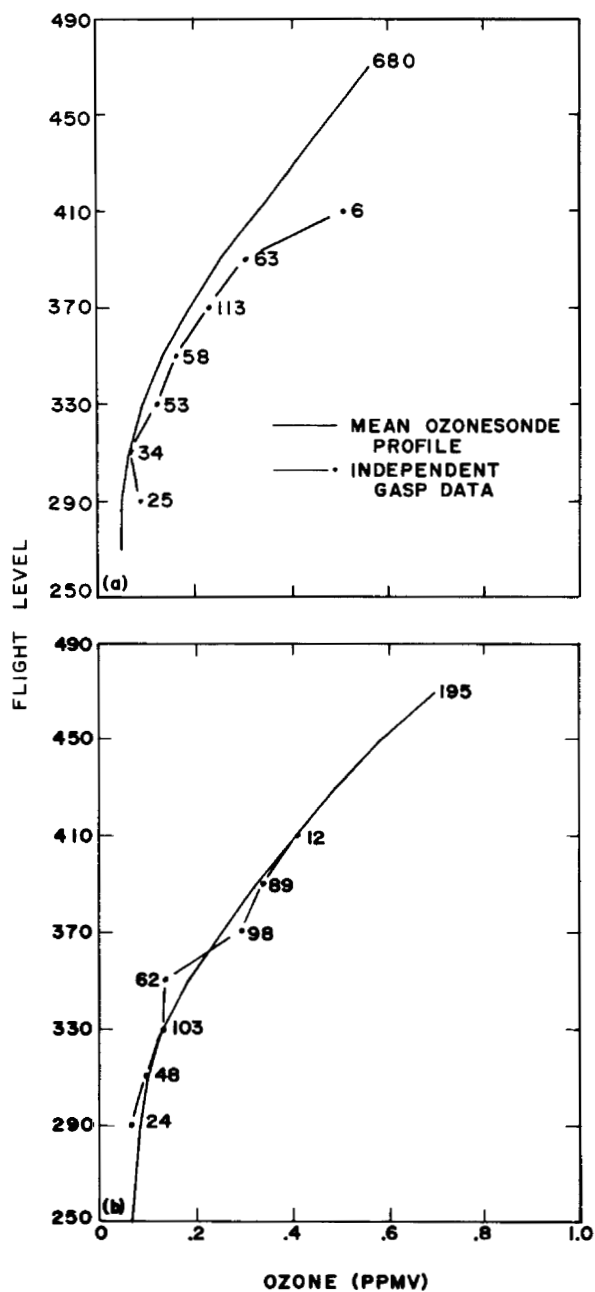
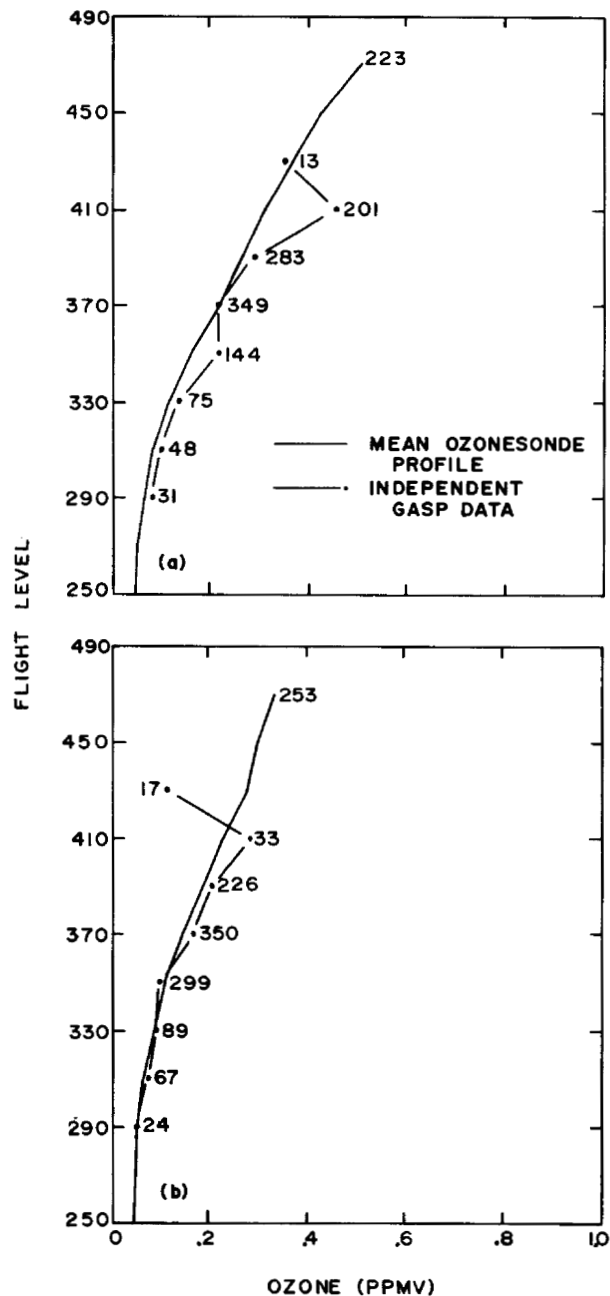


Figure 10. - Comparison between mean profile computed from ozonesondes only and independent GASP only data from spring, 40° N to 50° N latitude and 15° E to 30° W longitude. (The number of GASP observations is noted at each level, and the number of ozonesonde observations is noted at the top of the profile.)



(a) 15° E to 30° W and 40° N to 50° N.
 (b) 15° E to 30° W and 50° N to 60° N.

Figure 11. - Comparison between mean profile computed from ozone-sondes only and independent GASP only data from winter. (The number of GASP observations is noted at each level, and the number of ozone-sonde observations is noted at the top of the profile.)

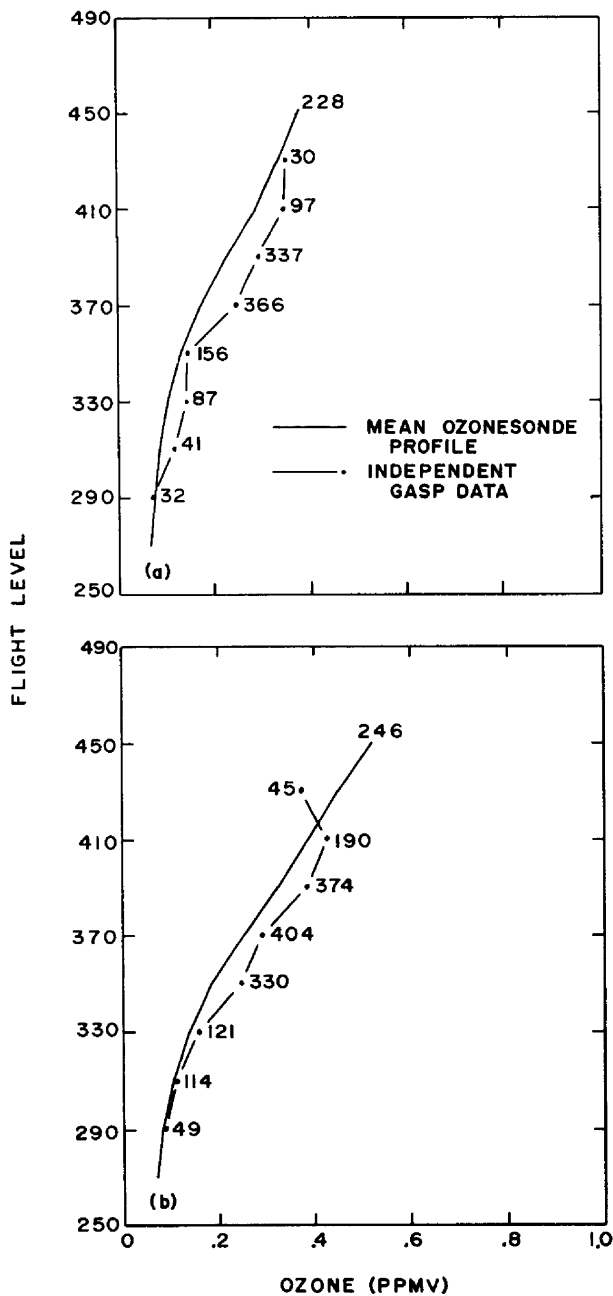


(a) 75° W to 120° W and 30° N to 40° N.
 (b) 75° W to 120° W and 40° N to 50° N.

Figure 12. - Comparison between mean profile computed from ozone-sondes only and independent GASP only data from winter. (The number of GASP observations is noted at each level, and the number of ozone-sonde observations is noted at the top of the profile.)

No specific statistical test such as difference of means was performed. The reason for this is that neither data set constitutes a purely random sample of observations. The ozone-sonde data suffer from a deficiency in uniform time sampling. Many of the stations gathered data for only a short time so that year-to-year variation is not included. Furthermore, the data presented in this report are

gridded, and the spatial distribution of the stations within each of the grid boxes is not uniform. If the station or stations are near one edge of the box, the available ozone estimate may not be representative of the box as a whole because, at any given height, there is definitely a climatological gradient of ozone with respect to latitude. The GASP data also were not truly randomly sampled.



(a) 75° W to 120° W and 30° N to 40° N.
 (b) 75° W to 120° W and 40° N to 50° N.

Figure 13. - Comparison between mean profile computed from ozonesondes only and independent GASP only data from spring. (The number of GASP observations is noted at each level, and the number of ozonesonde observations is noted at the top of the profile.)

Flightpaths and heights were chosen on the basis of synoptic (wind field) pattern. Because the ozone field is also related to the synoptic pattern, biases may be present.

In spite of these facts, however, the comparisons presented in this section strongly suggest that measure-

ments made with the two systems are compatible. The only difference consistently observed was at very low ozone levels, less than 0.05 ppmv, where the GASP instrument recorded somewhat higher concentrations than the ozonesonde (although part of this difference may be related to the previously mentioned low-side bias of some sondes). Thus, it is believed to be reasonable to combine the ozonesonde data and the GASP ozone data into a single comprehensive ozone summary.

Results

Climatological tables of ozone based on the ozonesonde and GASP data combined as described above are presented in appendixes A and B. Appendix A gives the results by month with 5° latitude resolution; appendix B gives the seasonal results with 10° latitude resolution. Both appendixes present results from FL190 to FL590 at 2000-foot intervals and use 40° longitude resolution. The tabulated entries in the appendixes are the mean ozone concentration (ppmv), standard deviation, and number of observations in each grid box. Also given are the 50th, 84th, and 98th percentile values of the empirical probability function. The 50th percentile value is called the median; and 84 percent of the observations in a grid box are less than the 84th percentile values. Alternatively, 16 percent of the observations are greater than the 84th percentile values. The rightmost longitude box, labeled "MEAN," gives the results for all longitudes combined in each latitude belt.

Figure 14 presents the distribution of observations of the combined data set by latitude. Most of the data

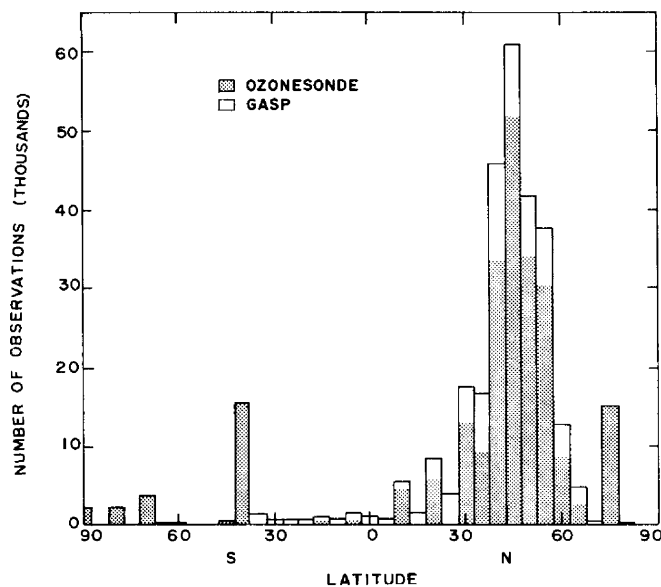


Figure 14. - Distribution of combined ozonesonde and GASP data with respect to latitude.

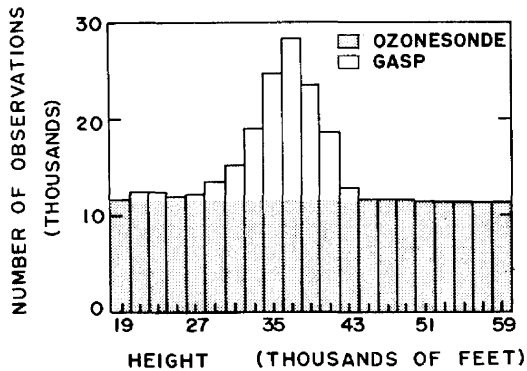


Figure 15. - Distribution of combined ozonesonde and GASP data with respect to height.

observations are from 30° N to 60° N. Figure 15 shows the distribution of the data by altitude. The shaded area below about 11 500 observations in figure 15 represents the contribution from the ozonesonde data, and the area above this line represents the addition of the GASP observations.

To help familiarize the reader with the information content and a few possible uses of the appendixes, examples of analyses based on these results are given in figures 16 to 24. The solid curves in figure 16 compare the cumulative frequency distribution (cfd) for FL350, 370, and 390 during March at 40° N and 75° W to 120° W, based on the three points given in appendix A (50, 84, and 98 percent) and the zero point. The dashed curves show the results based on a fine-resolution (14-point) cfd analysis. Note that the ordinate refers to percentage of

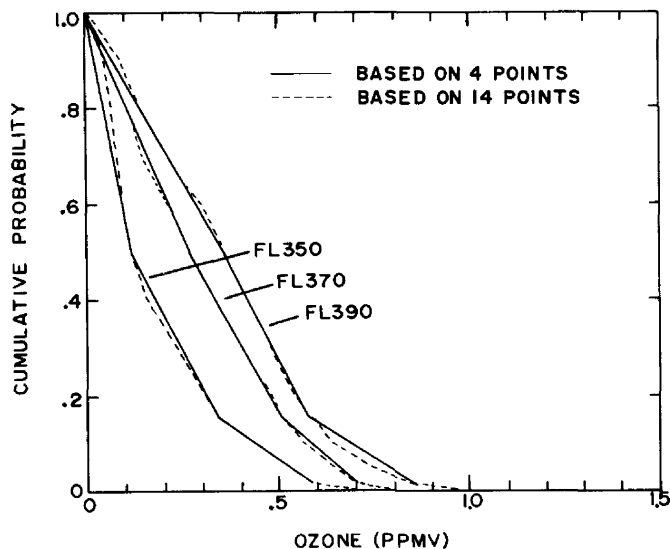


Figure 16. - Relative accuracy of cumulative frequency distribution of ambient ozone concentrations greater than indicated values. (Flight levels 350, 370, and 390 are presented from March data at 40° N and 75° W to 120° W.)

data greater than the value on the abscissa. This typical example illustrates that the three points tabulated in the appendixes are usually adequate to describe the entire cfd. Similar presentations have been made in references 5, 7, 9, and 22.

Of the three independent coordinates in the tables (month, flight level, and latitude), any two can be fixed during comparison studies. Figure 17 contrasts the cfd's for several flight levels at 45° N (all longitudes) during months with relatively large (March) and small (September) ozone levels, respectively. During both months there is a steady increase of ozone at any fixed probability with increasing flight level. Also note the change between months (e.g., at FL370 the median ozone level is about 0.3 ppmv during March, but during September it is less than 0.1 ppmv).

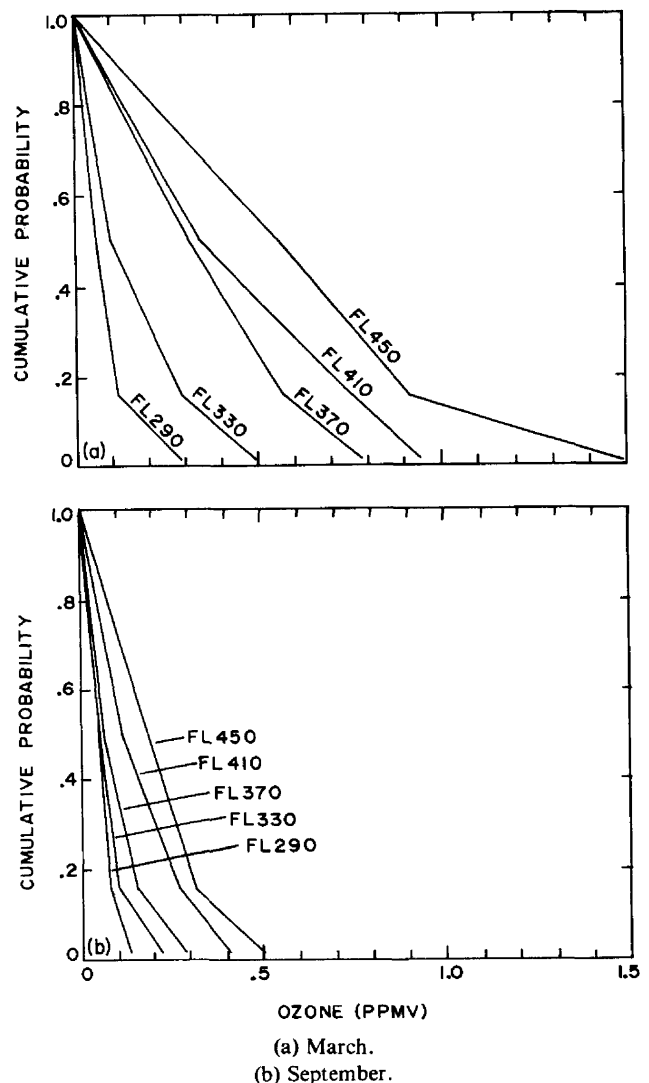


Figure 17. - Probability of ambient ozone concentrations greater than indicated values for FL290 to FL450 at 45° N.

As a second illustration, figure 18 contrasts the cfd's for several latitudes at FL390, again during March and September, respectively. During both months the ozone level corresponding to a given cumulative probability increases with increasing latitude, with latitudinal gradients generally larger in March than in September.

Another method of presentation is to choose a percentile value and then contour the ozone amounts as functions of latitude, altitude, or month. For example, figures 19(a) and (b) show the variation of ozone during March as a function of latitude and flight level, for the 50th and 84th percentile values, respectively. Both figures clearly illustrate the tendency for ozone to increase upward and northward, at least to 60° N. In this and subsequent figures the contours are drawn to represent the data as tabulated in appendixes A and B.

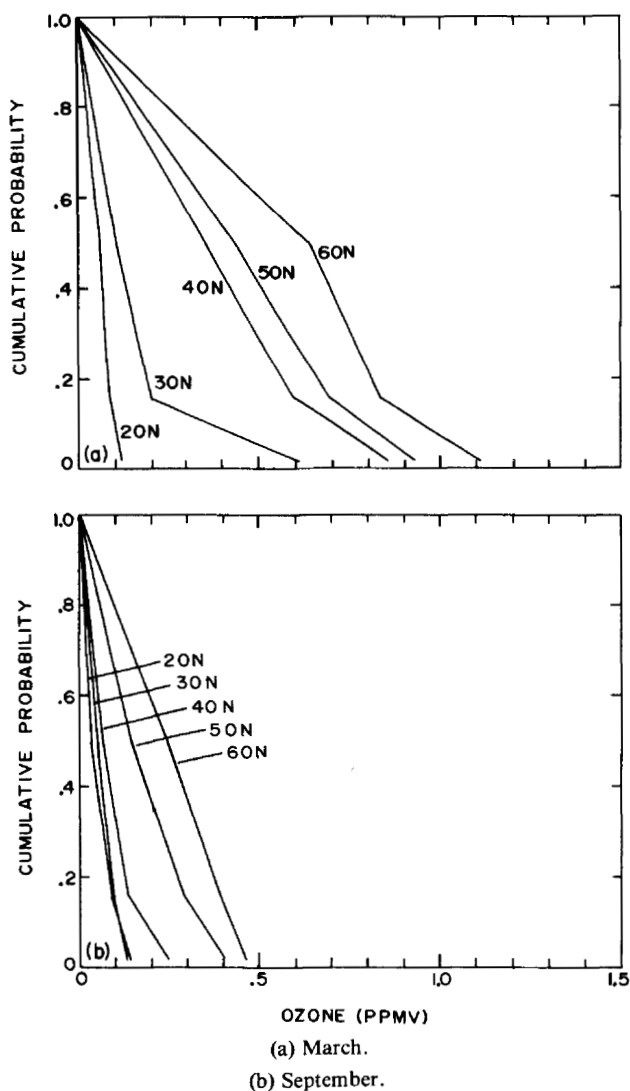


Figure 18.—Probability of ambient ozone concentrations greater than indicated values for 20° N to 60° N at FL390.

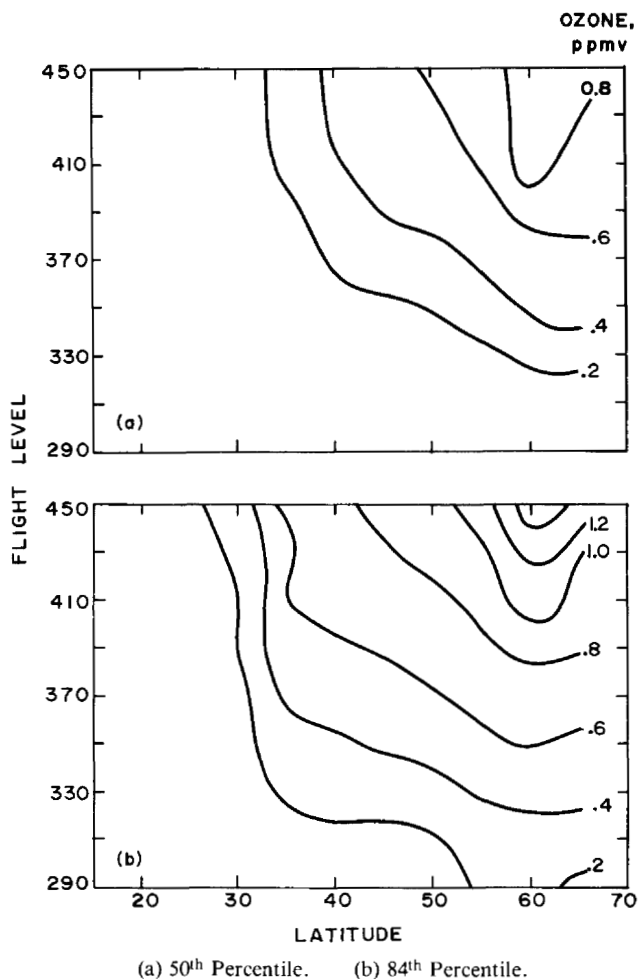
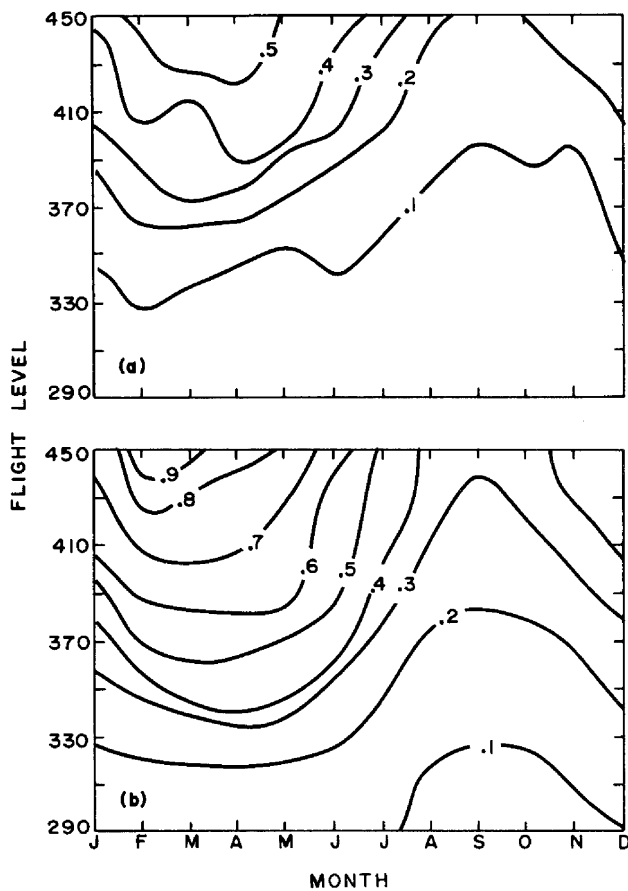


Figure 19.—Probability of ozone concentrations greater than indicated values from March data as function of flight level and latitude.

In figure 20 the latitude is fixed at 45° N and the variation of ozone with month and flight level is illustrated. Results from this and the previous figure for both the 50th and 84th percentile values show that ozone concentration is largest at high latitudes during spring months.

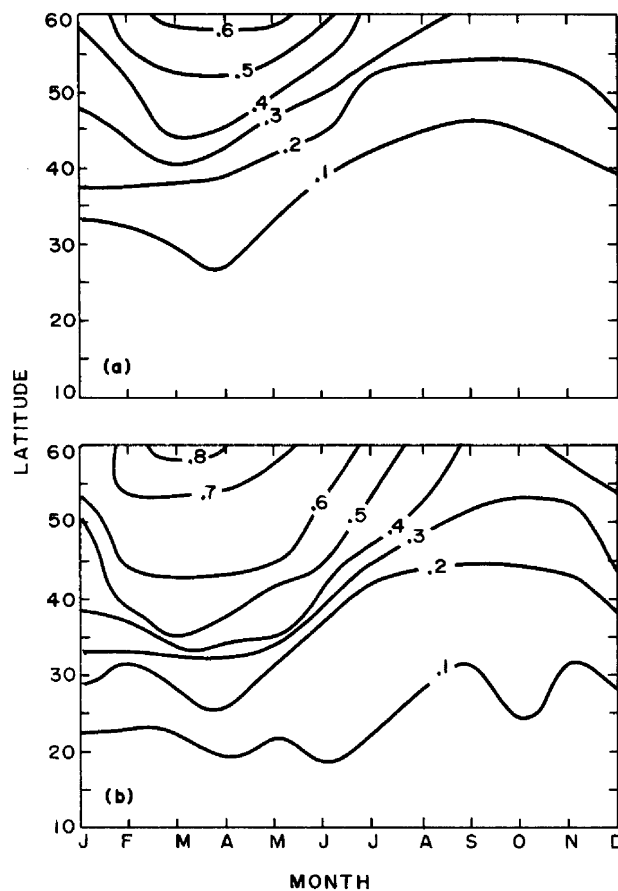
Ozone variations using the third set of coordinates are illustrated in figure 21. These charts show ozone as a function of latitude and month at FL390. Largest ozone levels are again found at high latitudes during spring months.

Finally it is of interest to consider where a given ozone level is found. As an example of this type of analysis, figure 22 shows the altitude at which the 84th percentile values of ozone equal 0.6 ppmv, as a function of latitude and month. The lowest altitude is at high latitudes during spring months, and the highest altitude is at 30° N during September. A chart similar to figure 22, but based on limited data, is given in reference 1.



(a) 50th Percentile. (b) 84th Percentile.

Figure 20. - Probability of ozone concentrations (ppmv) greater than indicated values for 45° N as function of flight level and month.



(a) 50th Percentile. (b) 84th Percentile.

Figure 21. - Probability of ozone concentrations (ppmv) greater than indicated values for FL390 as function of latitude and month.

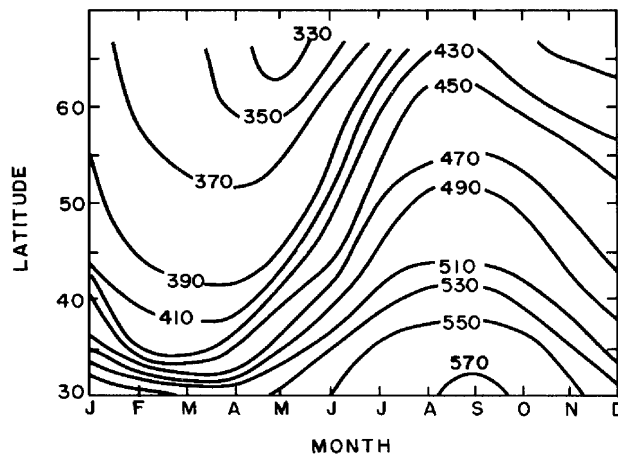


Figure 22. - Flight level for which probability is 84 percent that ambient ozone will be less than 0.6 ppmv, as a function of latitude and month.

Concluding Remarks

This report presents a climatology of ozone at present and anticipated airliner cruise altitudes, FL190 to FL590 (19 000 to 59 000 ft). These results are based on 11 472 ozonesonde ascents from 60 stations between 1963 and 1980 and on over 160 000 Global Atmospheric Sampling Program observations taken on 4417 commercial airliner flights between 1975 and 1979. Only statistically independent data were used from each GASP flight. The distance between independent ozone observations was estimated to be 270 km from the spatial east-west autocorrelation function. Each ozonesonde ascent was treated as independent. Spot comparisons between simultaneous (both in space and time) ozonesonde and GASP measurements, together with comparisons of the mean values in grid boxes, led to the conclusions that the two data sets are compatible and that they can be combined in a single climatology.

Climatological tables of ozone from the combined data sets are given in two appendixes: one with 5° latitude resolution on a monthly basis, and one with 10° latitude resolution on a seasonal basis. For some purposes the data are required at the finest space and time resolution available, and appendix A should serve those needs. (However, in all cases when the number of observations in a grid box is relatively small, the associated statistical confidence is also small and care should be taken when applying such values.) For other purposes data with the most stable statistics possible are required, and appendix B should serve those needs. Several examples of analyses that can be made by using the tabulated data are given and discussed. These examples are intended to acquaint readers with possible interpretations of the data; they are not an exhaustive analysis of the results.

National Aeronautics and Space Administration
Lewis Research Center
Cleveland, Ohio, January 19, 1984

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TABLE I. - FREQUENCY OF FLIGHTS ON WHICH OZONE WAS MEASURED

	ROUTE	LAT	LONG	LAT	LONG	J	F	M	A	M	J	J	A	S	O	N	D	TOT
1	SFO HNL	37.8N	122.4W	21.3N	157.9W	45	49	21	52	25	34	30	10	15	24	11	28	344
2	HNL LAX	21.3N	157.9W	33.9N	118.4W	20	32	27	32	26	41	34	21	11	15	14	15	288
3	JFK LAX	40.6N	73.8W	33.9N	118.4W	13	21	17	15	8	26	9	5	2	8	7	5	136
4	JFK HND	40.6N	73.8W	35.6N	139.9E	3	10	12	13	4	4	11	13	20	8	20	7	125
5	HNL ORD	21.3N	157.9W	42.0N	87.9W	7	6	13	18	12	12	14	3	9	7	2	10	113
6	JFK LHR	40.6N	73.8W	51.5N	.4W	9	3	15	5	14	11	12	7	11	15	6	2	110
7	LAX ORD	33.9N	118.4W	42.0N	87.9W	7	16	15	12	12	15	4	5	4	5	2	10	107
8	SFO JFK	37.6N	122.4W	40.5N	74.3W	13	5	7	12	11	8	6	9	4	11	2	17	105
9	SYD MEL	33.9S	151.2E	37.7S	144.8E	11	18	2	6	5	13	15	19	2	7	2	3	103
10	SFO LAX	37.6N	122.4W	33.9N	118.4W	13	8	9	12	12	9	8	10	11	7	1	3	103
11	LAX HND	33.9N	118.4W	35.6N	139.8E	3	7	11	15	3	3	8	12	18	9	4	5	98
12	AKL SYD	37.0S	174.8E	34.0S	151.1E	6	11	3	6	13	12	9	6	2	13	3	10	94
13	JFK NRT	40.6N	73.8W	35.9N	140.5E	10	9	2	10	2	11	9	8	8	8	2	9	88
14	JFK FRA	40.6N	73.8W	50.1N	8.5E	8	3	12	12	10	2	2	8	14	8	5	2	86
15	SFO ORD	37.6N	122.4W	42.0N	88.0W	6	3	4	16	4	11	3	6	5	7	1	6	72
16	ORD JFK	42.0N	87.9W	40.6N	73.8W	7	6	5	3	6	9	7	5	3	6	1	7	67
17	NAN SYD	17.8S	177.4E	34.0S	151.2E	6	6	0	7	5	8	5	6	6	3	1	2	55
18	NRT SFO	35.7N	140.4E	37.6N	122.5W	8	5	2	6	3	6	5	4	4	6	2	4	55
19	LAX LHR	34.0N	118.4W	51.5N	.6W	0	1	0	1	3	6	13	6	8	8	5	2	53
20	LAX NRT	34.0N	118.4W	35.9N	140.5E	4	6	1	3	3	7	4	6	5	4	2	6	51
21	LAX DEN	34.0N	118.4W	39.8N	104.9W	1	4	9	8	3	4	4	0	3	7	4	3	50
22	HNL NAN	21.3N	157.9W	17.7S	177.5E	4	6	0	5	3	10	3	6	5	3	1	2	48
23	LAX GUA	33.9N	118.4W	14.7N	90.5W	7	0	5	8	13	2	4	6	2	0	0	0	47
24	LAX ITO	33.9N	118.4W	19.8N	155.0W	2	7	5	3	7	7	2	4	1	1	1	2	42
25	SFO HKG	37.6N	122.4W	22.3N	114.1E	4	6	0	5	7	5	0	7	7	0	0	1	42
26	HNL SYD	21.3N	157.9W	34.0S	151.2E	7	16	1	7	0	2	0	0	3	5	0	0	41
27	LHR FRA	51.5N	.5W	50.0N	8.6E	6	4	5	1	5	6	1	3	3	4	2	1	41
28	LAX AKL	34.0N	118.4W	36.8S	174.9E	3	4	0	3	6	5	7	2	0	7	0	3	40
29	SEA LHR	47.4N	122.3W	51.5N	.5W	1	2	8	6	0	13	2	0	0	4	0	4	40
30	LHR IAD	51.5N	.4W	38.9N	77.5W	2	0	2	4	4	4	6	0	7	5	4	2	40
31	LHR AMS	51.5N	.5W	52.3N	4.8E	0	0	1	2	4	6	10	1	7	7	1	0	39
32	HNL GUM	21.3N	157.9W	13.4N	144.8E	0	1	4	6	9	1	8	4	0	1	0	4	38
33	JFK FCO	40.7N	73.8W	41.8N	12.2E	4	2	1	2	2	5	2	5	4	0	6	5	38
34	LHR BOS	51.5N	.4W	42.4N	71.0W	0	0	2	0	4	0	4	0	9	18	0	0	37
35	BAH JFK	28.3N	50.6E	40.6N	73.8W	6	0	2	0	2	2	2	4	2	4	5	8	37
36	HKG SIN	22.3N	114.2E	1.3N	103.9E	1	5	0	2	4	0	0	6	6	0	2	8	34
37	ORD YYZ	42.0N	87.9W	43.7N	79.6W	8	2	5	4	3	0	0	0	2	2	0	8	34
38	HNL PPO	21.3N	157.9W	14.2S	170.6W	0	2	0	0	8	4	0	7	0	0	3	8	32
39	DEN ORD	39.8N	104.9W	42.0N	87.9W	1	3	8	6	0	2	4	0	1	3	2	1	31
40	DTW BOS	42.2N	83.4W	42.4N	71.0W	0	0	1	0	2	0	4	0	6	15	0	0	28

TABLE I. - Continued.

ROUTE	LAT	LONG	LAT	LONG	J	F	M	A	M	J	J	A	S	O	N	D	TOT
81	HNL	OSA	21.3N	157.9W	34.8N	135.5E	2	4	1	1	0	0	0	2	2	0	12
82	HND	HKG	35.5N	139.8E	22.3N	114.2E	1	0	5	1	0	0	2	1	2	0	12
83	MNL	HKG	14.5N	121.0E	22.3N	114.2E	0	4	2	0	0	1	2	1	1	0	12
84	DFW	HNL	32.9N	97.1W	21.3N	157.9W	0	0	0	0	6	0	0	0	0	6	12
85	BKK	THR	13.9N	100.6E	35.7N	51.3E	0	2	0	1	1	2	4	1	0	0	12
86	HNL	PDX	21.3N	157.9W	45.9N	122.5W	0	0	0	0	2	4	2	0	4	0	12
87	JFK	DHA	40.6N	73.8W	26.3N	50.2E	0	8	0	4	0	0	0	0	0	0	12
88	PTY	GIG	9.1N	79.4W	23.0S	43.2W	1	0	2	2	2	0	4	1	0	0	12
89	SFO	YVR	37.6N	122.4W	49.2N	123.2W	4	1	0	2	0	0	0	2	2	0	11
90	GIG	VCP	22.8S	43.3W	23.0S	47.1W	2	0	0	0	6	0	0	2	0	0	10
91	DFW	JFK	32.9N	97.0W	40.7N	73.8W	0	0	0	0	6	0	0	0	0	4	10
92	THR	BOM	35.7N	51.3E	19.1N	72.9E	1	1	0	0	0	2	2	0	0	2	10
93	ATH	FCO	37.9N	23.7E	41.8N	12.2E	0	1	0	0	3	2	4	0	0	0	10
94	THR	KHI	35.7N	51.3E	24.9N	67.2E	0	0	2	0	0	1	0	2	0	2	9
95	SYD	HKG	33.9S	151.2E	22.4N	114.1E	0	0	2	0	2	0	1	1	1	0	9
96	SYD	MNL	34.0S	151.2E	14.6N	121.0E	0	2	0	0	0	2	2	1	1	0	9
97	MUC	FRA	48.1N	11.7E	50.0N	8.6E	1	0	0	2	0	2	0	4	0	0	9
98	PPG	SYD	14.3S	170.7W	33.9S	151.3E	0	2	0	0	3	0	4	0	0	0	9
99	OKA	TPE	26.2N	127.7E	25.1N	121.6E	0	0	0	1	1	1	4	2	0	0	9
100	OKA	GUM	26.2N	127.7E	13.5N	144.8E	0	0	0	1	1	1	4	2	0	0	9
101	HNL	HND	21.3N	157.9W	35.6N	139.8E	0	0	0	0	5	4	0	0	0	0	9
102	PER	SYD	31.9S	116.0E	33.9S	151.2E	3	0	0	0	0	1	4	0	0	0	9
103	NOU	SYD	22.0S	166.2E	34.0S	151.2E	1	0	0	0	0	0	2	0	4	2	9
104	THR	ATH	35.7N	51.3E	37.9N	23.7E	0	2	0	1	0	2	0	4	0	0	9
105	BKK	ATH	13.9N	100.6E	37.9N	23.8E	0	0	0	0	0	4	5	0	0	0	9
106	SYD	CHC	33.9S	151.2E	43.5S	172.6E	2	2	0	2	0	0	2	0	0	0	8
107	ATH	BEG	37.9N	23.7E	44.8N	20.3E	0	0	0	2	0	2	4	0	0	0	8
108	ITO	ORD	19.7N	155.1W	42.0N	87.9W	0	1	0	0	1	2	3	1	0	0	8
109	PER	MRU	31.9S	116.0E	20.5S	57.7E	2	3	2	0	0	1	0	0	0	0	8
110	SFO	BOS	37.6N	122.4W	42.5N	71.0W	0	0	0	0	2	0	0	1	3	0	8
111	IST	FRA	41.0N	28.8E	50.0N	8.6E	2	0	5	1	0	0	0	0	0	0	8
112	IAH	MEX	30.0N	95.4W	19.4N	99.1W	0	2	2	0	2	0	0	2	0	0	8
113	MEL	AKL	37.7S	144.8E	37.0S	174.8E	2	5	1	0	0	0	0	0	0	0	8
114	BAH	FRA	26.3N	50.6E	50.0N	8.6E	4	2	0	0	0	0	0	1	0	0	7
115	SYD	SFO	33.9S	151.2E	37.5N	122.4W	1	0	0	0	1	0	0	1	0	2	7
116	MRU	JNB	20.4S	57.7E	26.1S	28.2E	2	2	2	0	0	1	0	0	0	0	7
117	SEA	LAX	47.5N	122.3W	34.0N	118.4W	0	0	0	5	1	1	0	0	0	0	7
118	BKK	BAH	13.9N	100.6E	26.3N	50.6E	2	3	0	0	0	0	1	0	0	0	6
119	JFK	EZE	40.7N	73.8W	34.9S	58.6W	0	0	0	0	2	0	0	2	0	2	6
120	LAX	PPT	34.0N	118.4W	17.5S	149.5W	0	0	0	0	2	0	0	0	1	2	6

TABLE I. - Continued.

	ROUTE	LAT	LONG	LAT	LONG	J	F	M	A	M	J	J	A	S	O	N	D	TOT
161	BEG VIE	44.8N	20.3E	48.1N	16.6E	0	0	0	0	0	1	0	1	0	0	0	0	2
162	JFK IND	40.7N	73.8W	39.7N	86.3W	0	0	0	2	0	0	0	0	0	0	0	0	2
163	GUM NRT	13.5N	144.8E	35.8N	140.4E	0	0	0	0	0	0	0	0	0	0	0	2	2
164	SYD SYD	33.9S	151.2E	33.9S	151.2E	0	0	0	0	0	0	0	0	0	0	2	0	2
165	ATH BAH	37.9N	23.7E	26.2N	50.6E	1	0	0	0	0	0	0	1	0	0	0	0	2
166	IST BOM	41.0N	28.8E	19.1N	72.9E	1	1	0	0	0	0	0	0	0	0	0	0	2
167	ATH DAM	37.9N	23.7E	33.4N	36.5E	0	0	0	1	0	0	0	1	0	0	0	0	2
168	LAX OMH	34.0N	118.4W	41.3N	95.9W	0	0	0	0	0	0	0	0	0	0	0	2	2
169	BEG ORY	44.8N	20.3E	48.8N	2.4E	0	0	0	0	0	0	0	2	0	0	0	0	2
170	CCS LAX	10.6N	67.0W	33.8N	118.4W	1	0	1	0	0	0	0	0	0	0	0	0	2
171	SYD HND	33.9S	151.2E	35.4N	139.8E	0	2	0	0	0	0	0	0	0	0	0	0	2
172	GIG EZE	22.8S	43.3W	34.8S	58.5W	0	0	0	0	0	0	0	2	0	0	0	0	2
173	STL HNL	38.8N	90.4W	21.4N	157.9W	0	0	2	0	0	0	0	0	0	0	0	0	2
174	BAH FCO	28.3N	50.6E	41.8N	12.2E	0	0	0	0	0	0	0	0	0	2	0	0	2
175	FCO FRA	41.8N	12.3E	50.1N	8.6E	0	0	0	0	0	0	0	0	0	2	0	0	2
176	ORY DAM	48.7N	2.4E	33.5N	36.6E	0	0	0	0	0	0	0	0	0	1	1	0	2
177	DAM BAH	33.4N	36.5E	26.3N	50.7E	0	0	0	0	0	0	0	0	0	1	1	0	2
178	HNL HNL	21.3N	167.9W	21.3N	167.9W	0	0	0	0	0	0	0	0	0	0	2	0	2
179	MEL MEL	37.7S	144.8E	37.7S	144.8E	0	0	0	0	0	0	0	0	0	0	2	0	2
180	AKL AKL	37.0S	174.8E	37.0S	174.8E	0	0	0	0	1	0	0	0	0	0	0	0	1
181	IST KHI	41.0N	28.8E	24.9N	67.2E	0	0	0	1	0	0	0	0	0	0	0	0	1
182	BEY THR	33.8N	35.5E	35.7N	51.3E	0	0	1	0	0	0	0	0	0	0	0	0	1
183	PTY MIQ	9.1N	79.4W	10.6N	67.0W	0	0	1	0	0	0	0	0	0	0	0	0	1
184	FRA BOM	50.1N	8.6E	19.2N	73.1E	0	0	0	0	1	0	0	0	0	0	0	0	1
185	BOM BKK	19.1N	72.9E	13.7N	100.6E	0	0	0	0	1	0	0	0	0	0	0	0	1
186	PER SIN	31.9S	116.0E	1.4N	103.9E	0	0	0	0	0	1	0	0	0	0	0	0	1
187	SIN MRU	1.4N	103.9E	20.4S	57.7E	0	0	0	0	0	1	0	0	0	0	0	0	1
188	MEL DEL	37.7S	144.9E	28.6N	77.1E	0	0	0	0	0	1	0	0	0	0	0	0	1
189	LHR LPA	51.4N	.6W	27.9N	15.4W	0	0	0	0	0	0	0	0	0	0	0	1	1
190	LPA BOR	27.9N	15.4W	44.9N	68.8W	0	0	0	0	0	0	0	0	0	0	0	1	1
191	AMS ATH	52.3N	4.8E	37.9N	23.8E	1	0	0	0	0	0	0	0	0	0	0	0	1
192	BOM AMS	19.1N	72.9E	52.3N	4.8E	0	0	0	0	0	1	0	0	0	0	0	0	1
193	HND IAD	35.5N	139.8E	38.8N	77.4W	0	0	0	0	0	0	0	0	0	0	0	1	1
194	KHI BKK	24.9N	67.2E	14.2N	100.7E	0	0	0	0	0	1	0	0	0	0	0	0	1
195	ATH PIK	37.9N	23.7E	55.5N	4.6W	0	0	0	0	0	1	0	0	0	0	0	0	1
196	PIK BOR	55.5N	4.6W	44.8N	68.8W	0	0	0	0	0	1	0	0	0	0	0	0	1
197	KHI FRA	24.9N	67.2E	50.1N	8.4E	0	0	0	0	0	1	0	0	0	0	0	0	1
198	FCO SNN	41.8N	12.2E	52.7N	8.9W	1	0	0	0	0	0	0	0	0	0	0	0	1
199	LHR BEG	51.5N	.5W	44.8N	20.4E	0	0	0	1	0	0	0	0	0	0	0	0	1
200	SFO GUM	37.6N	122.4W	13.5N	144.9E	0	0	0	0	0	0	0	0	0	0	0	1	1

TABLE I. - Concluded.

	ROUTE	LAT	LONG	LAT	LONG	J	F	M	A	M	J	J	A	S	O	N	D	TOT
201	BKK PER	13.9N	100.6E	32.1S	115.9E	0	0	0	0	0	0	1	0	0	0	0	0	1
202	JFK LAS	40.6N	73.8W	36.1N	115.2W	0	1	0	0	0	0	0	0	0	0	0	0	1
203	BAH ORY	26.3N	50.7E	48.7N	2.3E	0	0	0	1	0	0	0	0	0	0	0	0	1
204	AMS VIE	52.3N	4.8E	48.1N	16.6E	0	0	0	1	0	0	0	0	0	0	0	0	1
205	ATH DEL	37.9N	23.7E	28.6N	77.1E	0	0	0	0	0	0	0	1	0	0	0	0	1
206	VIE BAH	48.1N	16.6E	26.2N	50.6E	0	0	0	1	0	0	0	0	0	0	0	0	1
207	ORD STL	42.0N	87.9W	38.8N	90.4W	0	0	1	0	0	0	0	0	0	0	0	0	1
208	JFK SEA	40.6N	73.8W	47.5N	122.4W	0	0	0	0	0	0	0	1	0	0	0	0	1
209	SEA HND	47.4N	122.3W	35.5N	139.6E	0	0	0	0	0	0	0	1	0	0	0	0	1
210	DEL IST	28.6N	77.1E	40.9N	28.8E	1	0	0	0	0	0	0	0	0	0	0	0	1
211	MIA CUR	25.8N	80.3W	12.3N	68.9W	0	0	0	1	0	0	0	0	0	0	0	0	1
212	FCO LHR	41.8N	12.3E	51.5N	.5W	0	0	0	0	0	0	0	0	1	0	0	0	1
213	JFK ANC	40.7N	73.8W	61.2N	150.0W	0	0	0	0	0	0	0	0	1	0	0	0	1
214	ANC HND	61.2N	150.0W	35.6N	139.8E	0	0	0	0	0	0	0	0	1	0	0	0	1
215	LHR CPT	51.5N	.4W	33.9S	18.7E	0	0	0	0	0	0	0	0	0	1	0	0	1
216	CPT AKL	34.0S	18.6E	36.9S	174.9E	0	0	0	0	0	0	0	0	0	1	0	0	1
217	HNL NOU	21.3N	157.9W	21.8S	166.3E	1	0	0	0	0	0	0	0	0	0	0	0	1
218	JFK CTS	40.6N	73.8W	42.8N	141.7E	0	1	0	0	0	0	0	0	0	0	0	0	1
219	FCO YQX	41.8N	12.2E	49.0N	54.5W	1	0	0	0	0	0	0	0	0	0	0	0	1
220	YQX JFK	49.0N	54.6W	40.6N	73.7W	1	0	0	0	0	0	0	0	0	0	0	0	1
221	IAH SFO	30.0N	95.4W	37.6N	122.4W	0	0	0	0	0	0	0	0	0	1	0	0	1
222	JFK DEL	40.6N	73.8W	28.6N	77.4E	0	0	0	0	1	0	0	0	0	0	0	0	1
223	PPQ MEL	14.3S	170.7W	37.7S	144.8E	0	0	0	0	0	0	0	0	0	0	1	0	1
224	HNL DTW	21.3N	157.9W	42.2N	83.4W	0	0	0	1	0	0	0	0	0	0	0	0	1
225	MEL CHC	37.7S	144.8E	43.5S	172.5E	0	0	0	0	0	0	0	0	0	0	1	0	1
226	CHC CHC	43.5S	172.5E	43.5S	172.4E	0	0	0	0	0	0	0	0	0	0	1	0	1
227	CHC PPQ	43.5S	172.4E	14.3S	170.8W	0	0	0	0	0	0	0	0	0	0	1	0	1
228	BAH AMS	26.3N	50.6E	52.3N	4.7E	0	0	0	0	0	0	0	0	0	0	1	0	1
229	JFK ATH	40.6N	73.8W	37.8N	23.8E	0	0	0	0	0	0	0	0	0	0	1	0	1
230	ATH BGR	37.9N	23.7E	44.8N	68.8W	0	0	0	0	0	0	0	0	0	0	1	0	1
231	LAX PIK	34.0N	118.4W	55.4N	4.6W	0	0	0	0	0	0	0	0	0	0	1	0	1
232	PIK LHR	55.5N	4.6W	51.5N	.5W	0	0	0	0	0	0	0	0	0	0	1	0	1
233	SFO TPE	37.6N	122.4W	25.1N	121.5E	0	0	0	0	0	0	0	0	0	0	1	0	1
234	MUC SNN	48.1N	11.7E	52.7N	8.9W	0	0	0	0	0	0	0	0	0	0	1	0	1

TABLE II. - OZONESONDE STATIONS BY REGION

Station	Latitude	Longitude	Period of record	Total number of ascents
Antarctica:				
Amundsen-Scott	90.0S	24.8W	3/62-12/66	111
King Baudouin	70.4S	24.3E	3/65-12/66	27
Hallet	72.3S	170.3E	11/63-12/66	26
Byrd	80.0S	119.5W	11/63-12/66	111
Syowa	69.0S	39.6E	11/67-10/79	133
Wilkes	66.2S	110.5E	2/63-11/63	7
Australia/New Zealand:				
Aspendale	38.0S	145.1E	6/25-7/79	705
Christchurch	43.5S	172.5E	3/65-12/65	25
India:				
Trivandrum	8.5N	77.0E	7/69-12/76	32
Bombay	19.1N	72.9E	12/68-12/69	7
Poona	18.5N	73.9E	2/66-12/76	135
Mt. Abu	24.6N	72.7E	3/65-4/66	4
New Delhi	28.6N	77.2E	1/69-12/76	99
Japan:				
Kagoshima	31.6N	130.6E	12/68-12/79	210
Tateno	36.1N	140.1E	3/68-12/79	233
Sapporo	43.0N	141.3E	12/68-12/79	237
Islands and ships:				
Hilo, Hawaii	19.7N	155.1W	12/64-12/65	17
Canton Island	2.8S	171.7W	2/65-12/65	32
Grand Turk	21.5N	71.2W	12/63-5/69	128
R/V Ak. Shirshov	(a)	(a)	5/77-8/77	29
USNS Eltanin	(a)	(a)	3/65-4/66	21
South America:				
Puerto Montt, Chile	41.4S	72.8W	12/64-1/66	22
LaPaz, Bolivia	16.5S	68.0W	3/65-9/65	10
Natal, Brazil	5.9S	35.4W	8/79-11/79	7
Central America:				
Balboa/Canal Zone, Panama	9.0N	79.6W	1/63-5/69	123
Ft. Sherman, Panama	9.4N	79.9W	7/77-7/77	58
North America:				
Tallahassee, Florida	30.4N	74.3W	1/63-5/68	147
Cape Canaveral, Florida	28.5N	80.6W	2/66-5/69	134
Palestine, Texas	31.8N	95.7W	10/77-9/79	47
Albuquerque, New Mexico	35.0N	106.6W	1/63-12/65	205
Topeka, Kansas	39.1N	95.6W	4/63-5/63	10
Wallops Island, Virginia	37.9N	75.5W	2/67-3/80	438
Sterling, Virginia	39.0N	77.5W	8/62-6/66	179
Boulder, Colorado	40.0N	105.2W	8/63-7/66	495
Fort Collins, Colorado	40.6N	105.1W	1/63-6/67	208
Madison/Green Bay, Wisconsin	43.1N	89.4W	1/63-12/65	83
Toronto, Ontario	43.8N	79.5W	11/76-4/80	12
Seattle, Washington	47.4N	122.3W	1/63-12/65	146
Bedford, Massachusetts	42.5N	71.3W	12/62-3/71	578
Yorkton, Saskatchewan	51.3N	102.5W	7/75-8/78	99
Cold Lake, Alberta	54.8N	110.1W	2/77-2/80	46
Edmonton, Alberta	53.6N	114.1W	10/70-4/80	386
Churchill, Manitoba	58.8N	94.1W	1/63-4/80	405
Goose Bay, Newfoundland	53.3N	60.4W	1/63-4/80	731
Fairbanks, Alaska	64.8N	147.9W	4/63-12/65	106
Poker Flat, Alaska	65.1N	147.5W	7/79-7/79	7
Resolute, Northwest Territories	74.7N	95.0W	1/66-4/80	628
Thule, Greenland	76.5N	68.8W	1/63-1/66	91

^aVariable.

Western Europe:				
Lisbon, Portugal	38.8N	9.2W	6/73-4/76	80
Cagliari/Elmas, Italy	39.2N	9.0E	7/68-8/76	225
El Arenosillo, Spain	37.1N	6.7W	5/77-5/77	17
Payerne, Switzerland	46.8N	6.9E	8/68-1/77	1033
Thalwil, Switzerland	47.3N	8.6E	9/66-7/68	243
Biscarrosse, France	44.4N	1.2W	3/76-4/80	216
Paris/Val Joyeux, France	48.8N	2.3E	1/64-5/67	63
Garmisch Partenkirchen, FRG	47.5N	11.1E	1/78-1/79	126
Hohenpeissenberg, FRG	47.8N	11.0E	3/65-4/80	965
Lindenberg, GDR	52.2N	14.1E	1/75-4/80	317
Uccle, Belgium	50.8N	4.3E	9/65-9/67	100
Tempelhof/Berlin, FRG	52.5N	13.4E	11/66-1/73	357

Appendix A

Ambient Ozone Climatological Tabulations in 5° Latitude by 45° Longitude by 2000-ft Altitude Intervals by Month

[Units of ozone, ppmv.]

CODE:

MEAN	ST. DEV.	N
50%	84%	98%

JANUARY
FL 190

		MEAN										LAT																
70N																					70N							
65						.046	.015	5													.046	.015	5	65				
						.038	.060	.071													.038	.060	.071					
60											.036	.013	33								.036	.013	33	60				
											.032	.046	.066								.032	.046	.066					
55														.039	.014	69				.037	.016	35	55					
														.037	.048	.081				.035	.048	.077						
50																				.045	.017	135	50					
																				.041	.059	.089						
45				.045	.009	19			.027	.007	12			.032	.007	12		.057	.119	65	.035	.010	136	45				
				.044	.050	.068			.028	.033	.037			.032	.040	.044		.041	.059	.082	.033	.045	.054	.041	.063	244		
40									.037	.012	3			.038	.014	114		.094	.032	2	.039	.008	24	.039	.015	143	40	
									.039	.046	.050			.039	.052	.061		.094	.116	.125	.040	.046	.050	.039	.051	.064		
35				.045	.012	21			.054		1			.026	.010	27								.035	.014	49	35	
				.042	.054	.070								.023	.036	.047								.035	.048	.063		
30		.030	.012	15	.048	.012	24							.037	.015	29								.039	.015	68	30	
		.028	.037	.054	.049	.058	.073							.033	.053	.070								.035	.054	.071		
25	.034	1																						.034		1	25	
20			.035	.017	10	.030		1						.042	.011	2			.024	.010	12		.030	.015	25	20		
			.038	.051	.061				.042	.049	.053							.022	.035	.038		.030	.043	.058				
15																												
10			.021	.015	2									.023	.009	6								.023	.011	8	10	
			.021	.031	.035									.021	.028	.041								.021	.035	.042		
5																												
0																												
5																												
10																												
15																												
20																												
25	.029	1																						.029		1	25	
30																												
35																												
40						.040	.013	57										.017	.010	5		.038	.014	62	.038	.014	62	40
						.040	.054	.066										.017	.024	.034		.038	.053	.066				
45S																												45S
	15E	60E	105E	150E	165W	120W	75W	30W	15E																			
	LONGITUDE																											

CODE:	MEAN	ST. DEV.	N
	50%	84%	95%

JANUARY
FL 210

	MEAN											LAT															
70N																											
65					.045	.011	5						.045	.011	5	65											
					.038	.058	.060						.038	.058	.060												
60								.039	.016	33			.039	.016	33	60											
								.033	.054	.072			.033	.054	.072												
55								.045	.012	39	.042	.016	69	.035	.017	39	55										
								.044	.054	.075	.039	.049	.083	.037	.049	.067	.041	.016	147	.092							
50	.053	1						.038	1					.047	.021	140	.047	.021	142	50							
														.043	.064	.107	.043	.063	.107								
45				.049	.014	19		.029	.013	12	.036	.010	12	.059	.119	65	.036	.011	136	.043	.063	244	.043	.063	244	45	
				.046	.053	.091		.026	.036	.057	.033	.047	.054	.041	.063	.102	.035	.047	.061	.034	.051	.077					
40	.043	.020	2					.013	.014	4	.042	.031	121	.040	.032	17	.040	.008	25	.041	.029	169	.038	.029	169	40	
	.043	.037	.062					.009	.026	.033	.039	.054	.079	.032	.060	.124	.040	.048	.053	.038	.053	.079					
35				.048	.016	25		.043	.010	4	.035	.032	34							.041	.027	63	.037	.055	104	35	
				.046	.056	.090		.039	.051	.059	.027	.048	.120							.037	.055	104					
30		.031	.012	15	.048	.010	24				.035	.016	29							.039	.015	68	.036	.053	073	30	
		.026	.041	.053	.049	.056	.072				.031	.048	.078							.036	.053	073					
25	.053	1																		.053	1						25
20		.040	.018	10				.028	.020	6				.025	.012	12				.031	.018	28	.029	.046	.064	20	
		.042	.053	.057				.027	.047	.058				.020	.038	.047				.029	.046	.064					
15		.011	1								.062	1								.037	.026	2	.037	.054	.061	15	
																				.037	.026	2	.037	.054	.061		
10		.021	.016	2							.024	.009	6							.023	.011	8	.021	.035	.043	10	
		.021	.031	.035							.021	.029	.042							.021	.035	.043					
5																										5	
0		.004	1																	.004	1					0	
5																										5	
10																										10	
15																										15	
20	.089	1																		.089	1					20	
25														.047	1					.047	1					25	
30																										30	
35				.056	.034	4	.035	.017	7											.042	.027	11	.035	.054	.104	35	
				.038	.079	.111	.030	.050	.060											.042	.027	11	.035	.054	.104		
40				.043	.014	57								.019	.008	5				.041	.015	62	.042	.055	.073	40	
				.043	.055	.073								.019	.025	.029				.041	.015	62	.042	.055	.073		
45S																										45S	

LONGITUDE

CODE:

MEAN	ST. DEV.	N
50%	84%	98%

JANUARY
FL 230

		MEAN										LAT																		
70N													70N																	
65						.049	.020	5					.049	.020	5	65														
60						.038	.063	.084					.038	.063	.084	60														
55									.043	.019	33		.043	.019	33	55														
50	.072	1							.034	.066	.082		.034	.066	.082	50														
45									.046	.012	39	.047	.019	69	.038	.018	37	.044	.018	145	45									
40									.044	.057	.073	.043	.061	.093	.039	.049	.078	.042	.057	.083	40									
35	.013	1							.049	.021	142				.046	.066	.110	.049	.021	143	35									
30									.054	.011	19	.029	.018	12	.039	.015	12	.061	.119	85	.037	.014	136	.044	.063	244	30			
25									.050	.061	.082	.025	.032	.073	.038	.049	.068	.043	.069	.094	.036	.049	.074	.035	.054	.083	25			
20									.049	.001	3	.041	.016	114	.064	.009	4	.067	.071	.074	.042	.010	25	.042	.015	146	20			
15									.049	.015	24	.039	.056	.080							.039	.055	.076	.041	.031	65	15			
10									.047	.066	.079	.063	.071	6	.032	.023	34	.030	.040	.087				.037	.054	.081	10			
5									.032	.012	16	.049	.012	24							.040	.016	69	.040	.052	.081	5			
0									.031	.046	.052	.048	.056	.079							.036	.049	.078				0			
5									.050	.006	2										.050	.006	2				5			
10									.050	.054	.056										.050	.054	.056				10			
15									.045	.020	10	0.000	1							.029	.013	12	.029	.039	.055	15				
20									.045	.063	.074				.065	1					.027	.060	.071				20			
25																											25			
30																											30			
35												.047	1										.047	1		35				
40												.024	1	.041	.019	5							.038	.018	6	.036	.055	.063	40	
45S												.044	.017	57	.048	.057	.063							.024	.010	5	.049	.018	62	45S
									.043	.061	.091										.024	.033	.038	.041	.056	.089				
	15E	60E	105E	150E	165W	120W	75W	30W	15E																					

LONGITUDE

CODE: MEAN ST. DEV. N
50% 84% 98%

JANUARY
FL 250

		MEAN										LAT	
70N													70N
65					.049 .014 5 .041 .065 .069							.049 .014 5 .041 .065 .069	65
60						.050 .026 33 .042 .080 .113						.050 .026 33 .042 .080 .113	60
55						.050 .019 39 .045 .057 .102	.052 .026 69 .045 .071 .121	.040 .021 37 .039 .051 .089				.046 .023 145 .044 .065 .113	55
50								.052 .027 145 .047 .071 .124				.052 .027 145 .047 .071 .124	50
45		.066 .021 19 .059 .088 .114			.026 .007 12 .027 .033 .034	.039 .021 14 .035 .046 .091	.068 .120 65 .045 .073 .161	.040 .019 138 .037 .054 .083				.046 .065 248 .035 .060 .132	45
40	.024 0.000 2 .024 .024 .024				.054 .032 4 .046 .079 .103	.044 .020 119 .040 .061 .087	.109 .063 3 .068 .156 .193	.046 .011 24 .045 .057 .064				.045 .023 152 .040 .061 .106	40
35			.050 .016 23 .044 .059 .086		.088 .015 2 .088 .098 .102	.037 .025 33 .029 .053 .111						.044 .024 58 .033 .058 .102	35
30		.033 .015 15 .032 .050 .058	.052 .016 24 .049 .061 .090			.041 .019 29 .038 .051 .096						.043 .019 68 .043 .057 .094	30
25	.052 1											.052 1	25
20		.044 .023 11 .047 .063 .079			.030 .017 3 .018 .042 .053		.025 .012 12 .020 .037 .047					.033 .020 26 .027 .050 .074	20
15													15
10		.023 .014 2 .023 .033 .036				.021 .006 6 .020 .028 .030						.021 .009 8 .020 .030 .036	10
5													5
0													0
5													5
10													10
15													15
20													20
25							.035 1					.035 1	25
30													30
35			.042 1									.042 1	35
40			.046 .016 57 .044 .064 .079				.028 .013 5 .025 .039 .048					.045 .017 62 .043 .062 .079	40
45S													45S
	15E	60E	105E	150E	165W	120W	75W	30W	15E				

LONGITUDE

CODE: MEAN ST. DEV. N
50% 84% 98%

JANUARY
FL 270

		MEAN										LAT												
70N																		70N						
65						.050	.015	5										65						
						.043	.067	.072																
60									.060	.035	33							60						
									.048	.092	.152													
55									.058	.035	39	.065	.044	69	.043	.024	37	55						
									.051	.064	.155	.047	.097	.179	.039	.058	.106							
50									.033	.003	2	.058	.031	137	.058	.031	139	50						
									.033	.035	.036	.049	.084	.144	.049	.084	.143							
45	.050	.028	4		.082	.035	19		.031	.010	12	.050	.031	12	.074	.120	68	.043	.028	140	.054	.068	255	45
	.039	.073	.093		.072	.121	.152		.028	.038	.053	.040	.069	.124	.050	.081	.207	.038	.055	.118	.042	.073	.154	
40	.027	.005	2		.041	.021	4		.050	.033	120	.042	.076	151	.074	.071	6	.049	.014	25	.050	.033	157	40
	.027	.030	.031		.046	.059	.063		.054	.098	.212	.054	.098	.212	.048	.063	.074	.048	.063	.074	.043	.070	.154	
35					.054	.022	23		.087	.074	8	.043	.038	37							.052	.042	68	35
					.046	.070	.108		.066	.090	.250	.033	.054	.133							.029	.079	.192	
30		.035	.018	16	.060	.031	24		.042	.023	29										.046	.027	69	30
		.034	.053	.073	.050	.068	.146		.036	.054	.109										.042	.062	.116	
25	.025		1	.044					.044		1										.038	.009	3	25
																					.044	.044	.044	
20		.053	.022	10	.031		1		.034	.010	7			.030	.013	12					.039	.019	30	20
		.051	.074	.089					.034	.041	.052			.029	.042	.053					.037	.054	.088	
15																								
10		.026	.012	2								.023	.005	6							.024	.008	6	10
		.026	.033	.037								.021	.024	.034							.021	.033	.037	
5												.022		1							.022		1	5
0					.045		1														.045		1	0
5																								
10																								
15																								
20	.075		1	.082	.027	2		.034			1	.034	.003	2							.057	.028	6	20
				.082	.100	.108						.034	.036	.037							.045	.082	.106	
25		.067	.018	4								.034		1							.060	.021	5	25
		.061	.083	.093																	.053	.078	.093	
30		.050	.019	6	.033		1														.047	.018	7	30
		.050	.064	.078																	.045	.061	.078	
35					.037		1	.029	.001	2											.031	.004	3	35
					.029	.029	.029														.029	.034	.037	
40					.054	.028	57					.033	.017	5							.052	.028	62	40
					.048	.070	.117					.028	.047	.058							.047	.068	.115	
45S																								45S

CODE:

MEAN	ST. DEV.	N
50%	84%	98%

JANUARY
FL 290

		MEAN												LAT								
70N																70N						
65						.067	.039	5							.067	.039	5	65				
						.045	.101	.134							.045	.101	.134					
60										.077	.052	.33			.077	.052	.33	60				
										.059	.110	.217			.059	.110	.217					
55										.076	.050	.38	.089	.061	.69	.051	.035	.42	.075	.055	.149	55
										.056	.114	.206	.061	.150	.237	.043	.074	.143	.052	.122	.214	
50	.081	1								.045	.012	.2				.070	.045	.148	.070	.045	.151	50
										.045	.053	.057				.054	.106	.195	.054	.106	.194	
45	.082	.041	.10			.106	.048	.19		.033	.014	.13	.091	.128	.67	.047	.033	.140	.064	.075	.266	45
	.067	.099	.179			.088	.166	.188		.030	.042	.067	.045	.085	.172	.039	.069	.160	.036	.088	.222	
40	.078	.035	.7							.024	.021	.4	.061	.049	.119	.048	.036	.4	.052	.017	.24	40
	.080	.091	.144							.023	.045	.048	.045	.093	.229	.036	.078	.103	.051	.069	.067	
35	.066	.021	.6			.076	.049	.23		.055	.019	.2	.048	.033	.34				.059	.041	.65	35
	.058	.086	.103			.065	.099	.218		.053	.068	.073	.037	.058	.135				.048	.090	.172	
30	.069	.015	.4	.036	.023	.15	.065	.026	.24				.047	.031	.29				.052	.030	.72	30
	.064	.080	.092	.034	.056	.086	.056	.078	.137				.039	.052	.141				.047	.074	.137	
25	.048	.015	.7	.049		1	.027		1		.035	.007	.3						.043	.015	.12	25
	.043	.059	.076								.037	.041	.043						.038	.056	.074	
20				.054	.018	.14	.051		1		.044	.017	.8			.026	.014	.12	.042	.020	.35	20
				.053	.069	.084					.044	.061	.067			.021	.043	.051	.048	.060	.083	
15				.055	.025	.6					.026	.007	.8	.041		1			.038	.022	.15	15
				.069	.070	.075					.025	.032	.037						.032	.069	.074	
10				.046	.018	.6		.031	1					.029	.009	.9			.035	.015	.16	10
				.048	.066	.068								.024	.040	.044			.028	.052	.067	
5				.029	.007	.2													.029	.007	.2	5
				.029	.034	.036													.029	.034	.036	
0							.021		1										.021		1	0
5							.027	.004	.2										.027	.004	.2	5
							.027	.029	.030										.027	.029	.030	
10							.036	.002	.2										.036	.002	.2	10
							.036	.037	.038										.036	.037	.038	
15							.060		1	.005		1							.033	.028	.2	15
																			.033	.051	.059	
20																						20
25	.061	1							.037		1								.048	.012	.2	25
																			.048	.057	.061	
30							.039		1	.043	.013	.5							.042	.012	.6	30
										.046	.055	.056							.042	.054	.056	
35							.042		1	.035	.013	.7							.036	.013	.8	35
										.034	.050	.055							.036	.049	.055	
40							.055	.025	.57							.037	.020	.5	.054	.025	.62	40
							.052	.075	.097							.031	.055	.068	.052	.074	.096	
45S																						45S

LONGITUDE

CODE: MEAN ST. DEV. N
 50% 84% 98%

JANUARY
 FL 310

		MEAN												LAT		
70N																70N
65																65
60																60
55																55
50																50
45																45
40																40
35																35
30																30
25																25
20																20
15																15
10																10
5																5
0																0
5																5
10																10
15																15
20																20
25																25
30																30
35																35
40																40
45S																45S
	15E	60E	105E	150E	165W	120W	75W	30W	15E							
	LONGITUDE															

CODE: MEAN ST. DEV. N
50% 84% 98%

JANUARY
FL 330

											MEAN			LAT	
70N														70N	
65											.221	.157	5	65	
60											.161	.339	.490		
55											.173	.096	33	55	
50											.274	.098	15	50	
45											.282	.380	.393	45	
40											.157	.058	10	40	
35											.196	.102	58	35	
30											.162	.210	.237	30	
25											.161	.110	236	25	
20											.118	.288	.420	20	
15											.310	.091	18	15	
10											.221	.094	12	10	
5											.226	.304	.359	5	
0											.131	.089	39	0	
5											.115	.225	.304	5	
10											.183	.107	100	10	
15											.095	.070	67	15	
20											.067	.152	.282	20	
25											.116	.085	151	25	
30											.129	.099	198	30	
35											.090	.239	.341	35	
40	.154 .082 4											.214	.101	21	40
45	.133 .215 278											.229	.308	.372	45
50	.114 .077 14											.361	.090	8	50
55	.093 .160 287											.376	.385	.513	55
60												.047	.035	15	60
65												.042	.050	.140	65
70												.099	.098	6	70
75												.237	.147	6	75
80												.078	.097	24	80
85												.121	.225	.335	85
90												.079	.219	.295	90
95												.116	.085	151	95
100												.129	.099	198	100
105												.090	.239	.341	105
110	.104 .030 9											.115	.240	.351	110
115	.103 .134 139											.137	.089	38	115
120												.112	.075	5	120
125												.092	.154	.245	125
130												.073	.062	47	130
135												.047	.134	.276	135
140												.112	.102	42	140
145												.061	.236	.366	145
150												.050	.034	26	150
155												.038	.066	.156	155
160												.060	.042	37	160
165												.049	.078	.202	165
170												.059	.037	119	170
175												.047	.038	53	175
180												.039	.018	24	180
185												.037	.056	.078	185
190												.056	.019	10	190
195												.049	.072	.096	195
200												.042	.007	11	200
205												.040	.048	.054	205
210												.030	.014	12	210
215												.031	.046	.050	215
220												.047	.030	57	220
225												.039	.068	.127	225
230												.044	.017	12	230
235												.049	.057	.068	235
240												.041	.022	13	240
245												.032	.070	.080	245
250												.032	.022	15	250
255												.026	.061	.075	255
260												.027	.005	5	260
265												.027	.032	.032	265
270												.023	.007	7	270
275												.026	.032	.032	275
280												.017	.007	8	280
285												.013	.014	.016	285
290												.013	.002	6	290
295												.013	.014	.016	295
300												.017	.005	10	300
305												.012	.017	.022	305
310												.017	.012	12	310
315												.013	.024	.046	315
320												.038	.004	2	320
325												.038	.040	.041	325
330												.022	.014	7	330
335												.029	.035	.038	335
340	.085 .001 2											.045	.000	2	340
345	.085 .086 086											.045	.045	.045	345
350												.051	.016	3	350
355												.059	.063	.065	355
360												.031	.010	14	360
365												.033	.038	.045	365
370	.063 .014 3											.045	.026	16	370
375	.069 .074 077											.059	.071	.104	375
380												.045	.026	16	380
385												.035	.071	.104	385
390												.044	.021	24	390
395												.038	.070	.077	395
400												.052	.025	36	400
405												.048	.077	.097	405
410												.049	.062	13	410
415												.028	.051	.213	415
420												.059	.030	58	420
425												.056	.087	.119	425
430												.038	.011	8	430
435												.036	.040	.062	435
440												.060	.032	5	440
445												.073	.090	.093	445
450															450
455															455

LONGITUDE

CODE:

MEAN	ST. DEV.	N
50%	84%	98%

JANUARY
FL 350

LAT	MEAN												LAT						
	15E	60E	105E	150E	165W	120W	75W	30W	15E										
70N																			
65										.341	.121	.31	.345	.131	.10	.342	.123	.41	
										.354	.442	.585			.604	.335	.457	.620	
60													.270	.125	.57	.193	.089	.5	
													.264	.347	.572	.151	.294	.316	
55								.381	.013	.2	.333	.066	.3	.224	.132	.71	.259	.132	.99
								.381	.390	.393	.331	.387	.411	.226	.355	.505	.277	.392	.477
50								.352	.110	.6	.388	.022	.3	.259	.154	.27	.163	.188	.12
								.364	.448	.499	.387	.407	.415	.244	.428	.557	.047	.451	.518
45	.237	.120	.27	.286	.126	.19	.284	.185	.6	.133	.098	.28	.213	.112	.55	.153	.157	.97	
	.238	.390	.452	.323	.400	.459	.296	.468	.476	.105	.253	.330	.217	.314	.496	.091	.306	.547	
40	.154	.105	.32	.288	.214	.7	.191	.127	.7	.155	.118	.24	.159	.138	.152	.173	.214	.9	
	.107	.299	.387	.320	.494	.548	.208	.313	.371	.102	.305	.399	.098	.310	.533	.047	.334	.640	
35	.180	.113	.12	.173	.122	.33	.098	.053	.7	.133	.128	.74	.086	.089	.38				
	.166	.269	.395	.139	.280	.474	.081	.113	.208	.073	.305	.457	.053	.186	.330				
30	.089	.088	.9	.036	.018	.20	.081	.043	.25	.043	.014	.8	.066	.039	.37				
	.058	.193	.256	.034	.048	.078	.071	.097	.208	.038	.050	.073	.052	.102	.169				
25	.070	.035	.3	.058	.020	.8	.022		.1	.030	.009	.10	.053	.033	.71				
	.081	.099	.106	.055	.070	.098				.034	.038	.041	.044	.073	.157	.038	.045	.048	
20	.075	.010	.2	.055	.029	.21	.004		.1	.040	.013	.26	.046	.020	.8	.032	.015	.12	
	.075	.082	.085	.050	.081	.118				.039	.047	.073	.038	.066	.078	.033	.050	.057	
15				.039	.020	.6				.032	.013	.7	.038	.008	.7	.051	.008	.2	
				.040	.057	.062				.024	.041	.056	.040	.045	.050	.051	.056	.058	
10				.043	.013	.9	.012		.1	.030	.013	.7	.029	.008	.7	.041	.007	.4	
				.044	.052	.060				.026	.035	.058	.027	.034	.043	.040	.048	.050	
5				.039	.025	.4	.010	.003	.3	.032		.1				.035	.010	.5	
				.028	.056	.078	.011	.012	.013							.030	.047	.048	
0				.037	.018	.3	.010	.003	.4							.028	.015	.4	
				.028	.052	.062	.011	.013	.014							.031	.040	.046	
5				.024	.006	.4	.014	.012	.6	.037	.002	.4	.037	.039	.039	.037	.039	.039	
				.026	.029	.031	.009	.023	.035							.051	.051	.055	
10				.024	.001	.4	.015	.006	.9	.040	.011	.4				.039	.051	.055	
				.025	.026	.026	.014	.021	.025										
15				.040	.011	.6	.019	.008	.11	.059	.004	.3				.057	.062	.065	
				.039	.052	.057	.016	.028	.034										
20				.047	.006	.4	.034	.031	.17										
				.046	.053	.054	.027	.036	.119										
25				.069	.023	.9	.037	.036	.20										
				.074	.085	.109	.026	.047	.137										
30				.057	.037	.5	.052	.030	.19										
				.041	.093	.116	.038	.066	.130										
35				.057	.039	.15	.041	.019	.13										
				.033	.103	.129	.039	.058	.076										
40				.070	.041	.57	.032	.013	.5	.120	.049	.5				.071	.044	.67	
				.067	.100	.153	.032	.041	.053	.119	.168	.172				.065	.106	.170	
45S																			

CODE:

MEAN	ST. DEV.	N
50%	84%	98%

JANUARY
FL 370

		MEAN												LAT	
70N															70N
65															65
60															60
55															55
50															50
45															45
40															40
35															35
30															30
25															25
20															20
15															15
10															10
5															5
0															0
5															5
10															10
15															15
20															20
25															25
30															30
35															35
40															40
45S															45S
	15E	60E	105E	150E	165W	120W	75W	30W	15E						

LONGITUDE

CODE: MEAN ST. DEV. N
50% 84% 98%

JANUARY
FL 390

		MEAN												LAT															
70N															70N														
65						.585	.067	3	.495	.196	65					.499	.193	68	65										
						.598	.639	.657		.482	.653	.910					.486	.657	.909										
60						.435	.117	29	.426	.129	19	.414	.176	34	.450	.034	3	.469	.059	6	60								
						.427	.568	.637		.442	.560	.589		.357	.616	.779		.431	.477	.495		.446	.535	.563		.428	.141	91	
55						.562	.255	35	.420	.119	9	.344	.185	39	.428	.177	77	.325	.167	49	55								
						.496	.883	1.080		.406	.555	.578		.334	.574	.738		.416	.610	.858		.314	.476	.675		.410	.206	209	
50						.426	.094	3	.362	.109	8				.260	.210	15	.294	.145	154	50								
						.365	.497	.551		.376	.463	.492				.303	.499	.553		.300	.443	.549		.296	.152	180			
45	.090	1			.499	.162	19	.255	.131	12	.176	.116	18	.401	.202	52	.309	.232	82	45									
					.478	.619	.812		.238	.366	.505		.145	.250	.448		.380	.559	.672		.258	.548	.853		.214	.146	147		
40					.475	.014	2	.229	.111	5	.118	.076	3	.278	.179	214	.174	.133	6	40									
					.475	.484	.487		.147	.363	.366		.085	.179	.217		.249	.455	.699		.162	.294	.359		.146	.066	24		
35					.280	.105	24	.178	.120	24	.154	.122	37	.178	.125	46					35								
					.251	.391	.493		.138	.293	.494		.123	.243	.493		.170	.286	.484						.190	.128	131		
30		.036	.012	15	.082	.026	24	.045	.022	5	.159	.128	31	.128	.089	36					30								
		.036	.047	.060		.084	.100	.140		.037	.058	.083		.111	.299	.433		.090	.234	.310						.110	.098	111	
25	.107	.002	2					.030	.003	2	.090	.105	19	.022	.003	3					25								
	.107	.108	.109					.030	.031	.032		.058	.123	.388		.023	.024	.024						.078	.093	26			
20		.057	.048	16	.020	.015	2				.052	.024	10	.033		1	.047	.020	12	20									
		.042	.107	.156		.020	.030	.034				.050	.077	.088				.045	.070	.083						.050	.035	41	
15					.009	.002	3				.046	.021	7								15								
					.008	.011	.012				.050	.065	.073													.035	.024	10	
10		.028	.019	4	.015	.000	2	.026	.001	2	.046	.017	8	.030	.007	6					10								
		.026	.046	.052		.015	.015	.015		.026	.027	.027		.049	.058	.073		.031	.033	.042						.034	.017	22	
5		.020		1				.023	.008	3	.040	.007	3								5								
								.026	.029	.030		.042	.046	.048												.030	.011	7	
0					.029		1	.015		1	.039	.015	4								0								
											.040	.054	.055													.033	.015	6	
5					.034	.006	2				.033	.014	8								5								
					.034	.037	.039				.032	.049	.053													.039	.012	10	
10					.014		1	.021	.004	7	.024	.010	4								10								
								.020	.026	.029		.028	.031	.032												.022	.007	12	
15					.022	.004	9				.022	.004	9								15								
					.019	.026	.029																			.022	.004	9	
20					.020	.005	7				.020	.005	7								20								
					.020	.025	.027																			.020	.005	7	
25					.025	.008	6				.025	.008	6								25								
					.026	.033	.036																			.025	.008	6	
30					.087	.055	6				.087	.055	6								30								
					.069	.115	.190																			.069	.115	.190	
35					.071	.024	8				.071	.024	8								35								
					.070	.092	.109																			.070	.092	.109	
40					.097	.062	57	.034	0.000	2	.034	.034	.034				.189	.114	5		40								
					.082	.155	.259										.180	.293	.362						.102	.072	64		
45S																					45S								

LONGITUDE

CODE:

MEAN	ST. DEV.	N
50%	84%	98%

JANUARY
FL 410

		MEAN												LAT				
70N																		70N
65																		65
60																		60
55																		55
50																		50
45																		45
40																		40
35																		35
30																		30
25																		25
20																		20
15																		15
10																		10
5																		5
0																		0
5																		5
10																		10
15																		15
20																		20
25																		25
30																		30
35																		35
40																		40
45S																		45S
	15E	60E	105E	150E	165W	120W	75W	30W	15E									
	LONGITUDE																	

CODE:

MEAN	ST. DEV.	N
50%	84%	98%

JANUARY
FL 430

	MEAN												LAT			
70N																70N
65																65
60																60
55																55
50																50
45																45
40																40
35																35
30																30
25																25
20																20
15																15
10																10
5																5
0																0
5																5
10																10
15																15
20																20
25																25
30																30
35																35
40																40
45S																45S
	15E	60E	105E	150E	165W	120W	75W	30W	15E							
	LONGITUDE															

CODE: MEAN ST. DEV. N
 50% 84% 98%

JANUARY
 FL 450

		MEAN									LAT	
70N											70N	
65					.832 .309 5 .841 1.126 1.209						.832 .309 5 .841 1.126 1.209	65
60						.747 .378 33 .705 .939 1.656					.747 .378 33 .705 .939 1.656	60
55						.612 .276 39 .567 .867 1.263	.817 .398 69 .786 1.109 1.657	.555 .244 35 .534 .848 1.037			.697 .354 143 .622 .971 1.591	55
50								.573 .272 140 .555 .811 1.143			.573 .272 140 .555 .811 1.143	50
45		.761 .323 19 .655 1.032 1.399			.380 .228 12 .432 .590 .742	.516 .146 12 .495 .618 .792	.444 .227 65 .403 .602 .933	.445 .222 135 .407 .663 .988			.470 .246 243 .432 .732 1.009	45
40						.365 .267 112 .296 .648 1.037		.303 .135 24 .290 .410 .611			.354 .250 136 .265 .588 1.036	40
35		.383 .266 21 .287 .487 1.134				.264 .172 27 .245 .458 .666					.316 .226 48 .191 .477 1.004	35
30	.074 .049 15 .062 .101 .187	.105 .036 24 .103 .144 .169				.176 .147 29 .107 .352 .511					.129 .110 66 .084 .175 .457	30
25												25
20	.109 .070 10 .111 .184 .220							.062 .025 12 .060 .083 .107			.083 .056 22 .063 .137 .212	20
15												15
10	.079 .037 2 .079 .103 .114					.031 .011 6 .035 .040 .042					.043 .029 8 .039 .042 .105	10
5												5
0												0
5												5
10												10
15												15
20												20
25												25
30												30
35												35
40		.149 .097 57 .128 .231 .412						.299 .065 5 .299 .358 .368			.162 .103 62 .130 .271 .412	40
45S												45S
	15E	60E	105E	150E	165W	120W	75W	30W	15E			
	LONGITUDE											

CODE:

MEAN	ST. DEV.	N
50%	84%	98%

JANUARY
FL 470

		MEAN												LAT					
70N																70N			
65					1.163	.248	5								1.163	.248	5	65	
					.990	1.441	1.520								.980	1.441	1.520		
60								.913	.380	33					.913	.380	33	60	
								.803	1.343	1.731					.803	1.343	1.731		
55								.723	.338	39	.959	.457	69	.688	.321	35	.828	.417	143
								.652	1.037	1.499	.893	1.433	1.935	.585	.991	1.354	.769	1.291	1.777
50													.674	.324	140	.674	.324	140	50
													.620	1.010	1.380	.620	1.010	1.380	
45			.895	.396	19			.467	.229	12	.638	.257	12	.546	.311	65	.526	.265	135
			.939	1.262	1.712			.537	.668	.764	.681	.912	.950	.516	.776	1.522	.479	.755	1.153
40											.421	.317	112				.338	.157	24
											.336	.668	1.329				.292	.473	.680
35			.435	.357	21			.305	.203	27							.362	.288	48
			.328	.605	1.456			.233	.523	.737							.206	.554	1.281
30	.106	.090	15					.120	.042	24							.152	.120	68
	.080	.146	.324					.123	.148	.203							.109	.201	.488
25																			
20	.126	.082	10											.089	.041	12	.085	.068	22
	.120	.220	.233											.061	.087	.164	.055	.174	.244
15																			
10	.095	.042	2					.040	.015	6							.053	.034	8
	.095	.123	.134					.036	.058	.058							.041	.058	.125
5																			
0																			
5																			
10																			
15																			
20																			
25																			
30																			
35																			
40			.162	.102	57						.341	.088	5				.176	.112	62
			.140	.236	.401						.377	.423	.428				.145	.252	.427
45S																			
	15E	60E	105E	150E	165W	120W	75W	30W	15E										
	LONGITUDE																		

CODE: MEAN ST. DEV. N
50% 84% 98%

JANUARY
FL 490

	MEAN										LAT												
70N												70N											
65					.337	.489	5						.337	.489	5	65							
					.323	1.862	1.863						.323	1.862	1.863								
60								1.161	.440	.33			1.161	.440	.33	60							
								1.151	1.554	2.114			1.151	1.554	2.114								
55								.609	.385	.39	1.031	.499	.69	.772	.337	.35	.907	.450	.143	55			
								.739	1.157	1.622	1.054	1.413	1.935	.695	1.079	1.500	.823	1.385	1.871				
50														.755	.346	.140	.755	.346	.140	50			
														.715	1.090	1.523	.715	1.090	1.523				
45			.990	.338	.18			.494	.211	.12	.704	.263	.12	.651	.346	.65	.610	.317	.135	.648	.337	.242	45
			.900	1.435	1.530			.541	.707	.758	.780	1.010	1.105	.562	.985	1.486	.573	.922	1.304	.481	1.000	1.483	
40											.465	.317	.112				.414	.180	.24	.456	.298	.136	40
											.400	.707	1.507				.376	.608	.733	.361	.690	1.362	
35			.544	.398	.21			.332	.269	.27										.425	.348	.48	35
			.412	.849	1.597			.229	.744	.915										.246	.784	1.358	
30	.133	.130	.15			.143	.049	.24			.251	.250	.29							.187	.185	.68	30
	.096	.157	.462			.141	.181	.250			.166	.334	.961							.129	.268	.680	
25																							25
20	.149	.102	.10											.084	.044	.12				.114	.083	.22	20
	.130	.286	.294											.077	.092	.193				.074	.203	.294	
15																							15
10	.111	.046	.2								.045	.020	.6							.062	.040	.8	10
	.111	.142	.155								.052	.058	.067							.054	.068	.145	
5																							5
0																							0
5																							5
10																							10
15																							15
20																							20
25																							25
30																							30
35																							35
40			.187	.120	.57								.533	.204	.5				.215	.160	.62	40	
			.167	.282	.405								.490	.770	.772				.173	.316	.771		
45S																							45S
	15E	60E	105E	150E	165W	120W	75W	30W	15E														

LONGITUDE

CODE:

MEAN	ST. DEV.	N
50%	84%	98%

JANUARY
FL 510

		MEAN										LAT				
70N													70N			
65						1.577	.617	5					1.577	.617	5	65
60						1.513	2.121	2.547					1.513	2.121	2.547	60
55																55
50																50
45																45
40																40
35																35
30																30
25																25
20																20
15																15
10																10
5																5
0																0
5																5
10																10
15																15
20																20
25																25
30																30
35																35
40																40
45S																45S
	15E	60E	105E	150E	165W	120W	75W	30W	15E							
	LONGITUDE															

CODE:	MEAN	ST. DEV.	N
	50%	84%	98%

JANUARY
FL 530

		MEAN												LAT					
70N																70N			
65						1.601	.554	5								1.601	.554	5	65
						1.970	2.073	2.092								1.970	2.073	2.092	
60						1.588	.439	32								1.588	.439	32	60
						1.644	1.991	2.446								1.644	1.991	2.446	
55						1.177	.433	39	1.387	.564	69	1.218	.505	35	1.288	.526	143	55	
						1.147	1.503	2.290	1.285	1.978	2.372	1.214	1.820	2.097	1.209	1.870	2.331		
50												1.088	.440	140	1.088	.440	140	50	
												1.035	1.505	2.023	1.035	1.505	2.023		
45		1.491	.458	18		786	.397	12	1.073	.566	12	.921	.450	65	.869	.416	135	45	
		1.375	1.968	2.243		.841	1.077	1.528	1.066	1.529	2.238	.829	1.379	1.895	.824	1.169	2.107		
40									.664	.444	112				.685	.329	24	40	
									.539	1.063	1.925				.609	.897	1.504		
35		.705	.430	21					483	.265	27				.580	.364	48	35	
		.539	1.075	1.746					397	.682	1.181				.401	.925	1.725		
30	.244	.218	.15	.239	.112	.24			367	.266	29				.295	.222	68	30	
	.168	.463	.737	.204	.376	.485			260	.617	1.031				.189	.484	966		
25																		25	
20	.199	.150	.10									.131	.044	.12	.162	.112	.22	20	
	.149	.374	.458									.123	.156	.233	.116	.245	.437		
15																		15	
10	.144	.055	.2						.050	.026	.6				.074	.054	.8	10	
	.144	.181	.197						.055	.074	.079				.070	.088	.184		
5																		5	
0																		0	
5																		5	
10																		10	
15																		15	
20																		20	
25																		25	
30																		30	
35																		35	
40			.318	.139	.57							.676	.340	.5	.347	.191	.62	40	
			.297	.456	.600							.536	1.078	1.083	.299	.498	.981		
45S																		45S	
	15E	60E	105E	150E	165W	120W	75W	30W	15E										

LONGITUDE

CODE:

MEAN	ST. DEV.	N
50%	84%	98%

JANUARY
FL 550

		MEAN												LAT													
70N																											
65						1.854 .296 5 1.849 2.102 2.318									1.854 .296 5 1.849 2.102 2.318	65											
60															1.780 .475 32 1.764 2.270 2.760	60											
55															1.357 .526 39 1.304 1.803 2.447	1.661 .580 68 1.707 2.243 2.744	1.474 .519 35 1.416 2.038 2.527	1.531 .566 142 1.209 2.162 2.737	55								
50															1.307 .448 140 1.296 1.752 2.262					1.307 .448 140 1.296 1.752 2.262	50						
45						1.733 .527 18 1.701 2.310 2.589									1.987 .412 12 1.008 1.265 1.795	1.287 .622 12 1.298 1.751 2.575	1.156 .554 65 1.005 1.822 2.174	1.087 .428 135 1.090 1.480 1.964	1.158 .513 242 1.983 1.704 2.380	45							
40																				.881 .449 113 .789 1.260 2.152					.830 .343 24 .814 1.207 1.465	.872 .432 137 .808 1.230 2.143	40
35						.856 .455 21 .716 1.378 1.925									.629 .314 27 .574 .933 1.312						.729 .399 48 .503 1.161 1.716	35					
30						.371 .303 15 .260 .660 1.054	.371 .248 24 .283 .573 1.023								.516 .360 29 .352 .815 1.412						.433 .320 68 .245 .711 1.327	30					
25																									25		
20						.247 .175 10 .207 .456 .548														.181 .067 12 .162 .254 .280					.211 .132 22 .159 .278 .528	20	
15																									15		
10						.181 .083 2 .181 .224 241									.083 .025 6 .081 .101 .124						.108 .057 8 .093 .126 .228	10					
5																									5		
0																									0		
5																									5		
10																									10		
15																									15		
20																									20		
25																									25		
30																									30		
35																									35		
40						.444 .170 57 .425 .642 .754														.800 .313 5 .787 1.075 1.258					.473 .210 62 .420 .679 .945	40	
45S																									45S		
	15E	60E	105E	150E	165W	120W	75W	30W	15E																		

LONGITUDE

CODE:

MEAN	ST. DEV.	N
50%	84%	98%

JANUARY
FL 570

		MEAN												LAT			
70N															70N		
65						2.125	.402	5							65		
60						2.129	2.426	2.625							60		
55						2.071	.517	31							55		
50						2.013	2.756	2.949							50		
45						1.718	.522	38	1.963	.634	67	1.775	.577	35	1.849	.602	140
40						1.738	2.198	2.676	1.946	2.624	3.015	1.685	2.564	2.875	1.582	2.549	2.947
35												1.557	.484	140	1.557	.484	140
30												1.514	1.996	2.604	1.514	1.996	2.604
25																	
20																	
15																	
10																	
5																	
0																	
5																	
10																	
15																	
20																	
25																	
30																	
35																	
40																	
45S																	
	15E	60E	105E	150E	165W	120W	75W	30W	15E								

LONGITUDE

CODE:

MEAN	ST. DEV.	N
50%	84%	98%

JANUARY
FL 590

		MEAN										LAT													
70N														70N											
65						2.497	.626	5							2.497	.626	5	65							
60						2.459	3.121	3	2.211	2.865	3	2.311	.547	31	2.211	2.865	3	2.311	.547	31	60				
55												1.990	.534	37	2.245	.623	67	1.980	.603	35	2.110	.609	139	55	
50												2.032	2.357	3	2.097	2.216	2.993	3.247	2.067	2.597	3.077	2.139	2.738	3.211	50
45						2.272	.605	18				1.886	.716	12	1.692	.631	65	1.824	.530	140	1.694	.567	242	45	
40						2.356	2.958	3.118				1.735	2.057	2.120	1.616	2.569	3.193	1.601	2.035	2.550	1.520	2.281	2.995	40	
35												1.472	.472	113				1.248	.467	24	1.432	.478	137	35	
30						1.347	.404	21				1.242	1.779	2.090	1.216	.407	27				1.046	1.698	2.064	30	
25						.555	.266	13				.850	.475	24	1.904	.475	29				.816	.461	66	25	
20						.524	.744	1.171				.726	1.321	1.975	.796	1.381	1.927				.593	1.293	1.953	20	
15																								15	
10						.443	.211	10										435	.201	12	.438	.206	22	10	
5						.413	.658	.729										372	.556	911	.302	.661	.872	5	
0																								0	
5																								5	
10																								10	
15																								15	
20																								20	
25																								25	
30																								30	
35																								35	
40																								40	
45S																		1.501	.365	5	.809	.279	62	45S	
						.857	.200	57				.845	1.065	1.246	1.575	1.806	1.866				.834	1.135	1.726		
	15E	60E	105E	150E	165W	120W	75W	30W	15E																
	LONGITUDE																								

CODE: MEAN ST. DEV. N
50% 84% 98%

FEBRUARY
FL 190

		MEAN										LAT	
70N													70N
65					.031 .003 3 .032 .033 .034							.031 .003 3 .032 .033 .034	65
60						.039 .013 27 .041 .050 .063						.039 .013 27 .041 .050 .063	60
55						.046 .016 67 .046 .056 .073	.045 .014 50 .046 .053 .085		.043 .015 29 .039 .056 .076			.045 .015 146 .039 .056 .078	55
50									.045 .016 142 .042 .061 .081			.045 .016 142 .042 .061 .081	50
45		.049 .012 21 .046 .054 .077			.023 .007 11 .023 .029 .033	.030 .003 4 .030 .033 .033	.049 .027 45 .044 .057 .123		.041 .012 116 .041 .050 .066			.042 .018 197 .041 .051 .083	45
40						.044 .014 117 .044 .057 .072	.054 .007 3 .053 .060 .064		.043 .014 28 .041 .057 .078			.044 .014 148 .042 .057 .072	40
35			.051 .009 22 .051 .061 .069			.026 .018 16 .018 .033 .074						.041 .019 38 .044 .057 .074	35
30	.037 .013 14 .036 .042 .068		.050 .013 14 .048 .064 .073			.033 .014 19 .032 .043 .064						.039 .015 47 .037 .051 .075	30
25	.054 1											.054 1	25
20	.042 .015 10 .041 .059 .068				.044 .028 2 .044 .062 .070		.029 .009 9 .032 .036 .040					.037 .016 21 .035 .051 .070	20
15													15
10	.025 .012 4 .026 .036 .040					.027 .012 7 .027 .038 .043						.026 .012 11 .027 .039 .043	10
5													5
0													0
5				.023 1								.023 1	5
10													10
15													15
20													20
25													25
30													30
35				.044 1								.044 1	35
40		.041 .013 50 .039 .051 .074					.023 .006 2 .023 .026 .028					.041 .014 52 .039 .051 .074	40
45S													45S
	15E	60E	105E	150E	165W	120W	75W	30W	15E				
	LONGITUDE												

CODE:

MEAN	ST. DEV.	N
50%	84%	98%

FEBRUARY
FL 210

	MEAN										LAT		
70N												70N	
65					.036 .009 3							.036 .009 3	65
60					.039 .043 .045							.043 .014 27	60
55							.048 .017 67	.049 .017 50	.047 .017 29			.048 .017 146	55
50							.048 .058 .081	.047 .058 .083	.041 .067 .084			.047 .018 144	50
45			.053 .014 21		.023 .008 11	.041 .013 5	.055 .031 45	.041 .013 116				.045 .020 198	45
40			.042 .065 .088		.020 .030 .040	.038 .054 .060		.046 .066 .151	.041 .051 .067			.042 .058 .083	40
35	.050 .006 2			.064 .047 25	.012 .012 2	.048 .021 122	.029 .018 29	.044 .018 13	.045 .017 28			.047 .018 144	35
30	.050 .054 .056			.052 .067 .185	.012 .019 .023	.047 .061 .096	.023 .042 .071	.042 .057 .078	.043 .060 .084			.045 .037 82	30
25		.040 .015 15		.049 .059 .075			.033 .012 19					.043 .061 .087	25
20		.043 .013 10		.026 .009 2		.018 .020 18		.028 .008 9				.040 .015 48	20
15		.043 .058 .061		.026 .032 .035		.012 .034 .066		.029 .036 .036				.035 .053 .078	15
10			.017 .012 3	.023 .026 .028								.040 .015 48	10
5		.025 .011 4					.026 .012 7					.037 .053 .078	5
0		.028 .034 .036					.031 .038 .040					.043 .061 .087	0
5		.034 1										.034 1	5
10					.022 1							.022 1	10
15													15
20					.037 1							.037 1	20
25													25
30													30
35			.068 1	.038 .024 8		.048 .055 .069						.041 .024 9	35
40			.043 .020 50	.038 .055 .076				.028 .002 2				.042 .020 52	40
45S								.028 .029 .029				.038 .055 .075	45S
	15E	60E	105E	150E	165W	120W	75W	30W	15E				

LONGITUDE

CODE:	MEAN	ST. DEV.	N
	50%	84%	98%

FEBRUARY
FL 230

	MEAN											LAT																			
70N													70N																		
65					.048	.002	3					.048	.002	3	65																
60					.049	.050	.051					.047	.021	27	60																
55								.047	.021	27		.044	.061	100	55																
50								.052	.021	67	.057	.024	50	.052	.022	29	.054	.022	146	50											
45								.049	.062	110	.051	.073	122	.041	.081	.099	.047	.070	115	45											
40														.050	.020	143	.050	.020	143	40											
35					.060	.023	22							.046	.071	.098	.046	.071	.098	35											
30					.052	.076	.122							.042	.014	116	.042	.052	.073	.047	.023	198	30								
25					.026	.010	11							.035	.007	4	.037	.040	.043	.049	.073	.182	.041	.058	108	25					
20					.040	.007	2							.050	.021	128	.048	.064	.108	.062	.013	5	.046	.021	28	.049	.021	163	20		
15					.040	.044	.046							.024	.041	065				.042	.062	.095	.047	.065	106	.043	.026	51	15		
10					.061	.022	23							.035	.027	3	.027	.017	25				.043	.062	108	.043	.062	108	10		
5					.054	.071	.122							.024	.057	070				.033	.011	19	.042	.018	47	.041	.051	.088	5		
0					.039	.016	14							.039	.043	.077	.055	.019	14				.042	.018	47	.041	.051	.088	0		
5S					.039	.043	.077							.051	.078	.095				.032	.044	.047								5S	
10S																															10S
15S																															15S
20S																															20S
25S																															25S
30S																															30S
35S																															35S
40S																															40S
45S																															45S
	15E	60E	105E	150E	165W	120W	75W	30W	15E																						

LONGITUDE

CODE:

MEAN	ST. DEV.	N
50%	84%	98%

FEBRUARY
FL 250

		MEAN											LAT					
70N															70N			
65						.049	.002	3							.049	.002	3	65
60						.048	.051	.052							.054	.033	27	60
55									.054	.033	27				.046	.064	.154	55
50									.054	.022	67	.064	.033	50	.057	.027	29	50
45									.052	.067	.119	.055	.101	.148	.045	.086	.123	45
40												.053	.023	146	.053	.023	146	40
35	.028	1				.069	.032	21	.025	.010	11	.047	.024	4	.073	.053	45	35
30						.058	.096	.154	.025	.033	.046	.037	.065	.083	.056	.089	.256	30
25									.044	.012	2	.056	.027	126	.070	.071	3	25
20									.044	.052	.056	.053	.078	.130	.049	.023	28	20
15						.053	.033	25	.049	.025	4	.035	.019	19	.046	.074	.101	15
10						.054	.071	.164	.049	.053	.055	.029	.058	.077				10
5						.044	.019	14				.034	.014	20				5
0						.042	.047	.090				.037	.042	.061				0
5																		5
10						.046	.013	10				.029	.013	9				10
15						.047	.061	.065	.036	.031	8	.030	.041	.044	.038	.020	30	15
20						.082	1		.031	.036	.102				.037	.049	.085	20
25						.039	.004	2							.053	.021	3	25
30						.039	.042	.043				.027	.010	7	.043	.070	.080	30
35						.027	.009	4				.032	.035	.042	.027	.010	11	35
40						.029	.033	.037							.029	.036	.042	40
45S						.029	1											45S
						.019	1								.029			
						.015	.012	2							.015	.012	2	
						.015	.023	.027							.015	.023	.027	
						.006	1								.006			
						.062	.011	5							.063	.010	8	
						.069	.071	.073	.064	.007	3				.062	.073	.073	
						.046	.023	50	.061	.069	.073				.046	.023	52	
						.043	.061	.090				.030	.001	2	.042	.061	.089	
												.030	.030	.030				

CODE:

MEAN	ST. DEV.	N
50%	84%	98%

FEBRUARY
FL 270

	MEAN											LAT						
70N													70N					
65						.059	.016	3						65				
						.059	.073	.078										
60							.069	.050	27					60				
							.057	.084	.226									
55							.063	.035	67	.082	.049	50	.063	.034	29	55		
							.053	.084	.154	.063	.146	.196	.048	.098	.146			
50													.059	.030	143	50		
													.051	.083	.132			
45			.080	.040	21	.025	.010	11	.070	.039	4	.068	.076	45	.054	.031	116	45
			.061	.119	.179	.021	.036	.042	.057	.106	.127	.058	.107	.295	.045	.076	.147	
40									.067	.042	124	.022		1	.054	.029	28	40
									.054	.104	.176				.050	.089	.106	
35			.077	.051	24	.067	.029	4	.035	.017	21				.058	.044	49	35
			.059	.092	.223	.067	.096	.098	.031	.054	.075				.053	.083	.150	
30	.050	.024	14	.065	.027	16			.037	.016	19				.050	.025	49	30
	.047	.058	.104	.056	.089	.130			.035	.044	.076				.043	.071	.107	
25				.031	.023	2	.044		1						.035	.020	3	25
				.031	.047	.053									.044	.051	.054	
20	.048	.015	10	.010		1	.042	.022	24			.032	.014	9	.040	.020	44	20
	.049	.065	.068				.038	.053	.099			.033	.042	.052	.038	.056	.098	
15																		15
10	.030	.010	4						.026	.009	7				.028	.010	11	10
	.030	.039	.044						.029	.037	.038				.029	.037	.044	
5																		5
0				.019		1									.019		1	0
5				.012		1	.018		1						.015	.003	2	5
															.015	.017	.018	
10																		10
15																		15
20																		20
25																		25
30			.045		1										.045		1	30
35			.038	.025	5	.038	.025	5	.058	.005	4				.047	.022	9	35
			.057	.059	.060	.059	.063	.064	.059	.063	.064				.057	.061	.064	
40			.050	.026	51							.031	0.000	2	.049	.026	53	40
			.044	.064	.095							.031	.031	.031	.044	.064	.095	
45S																		45S
	15E	60E	105E	150E	165W	120W	75W	30W	15E									
	LONGITUDE																	

CODE: MEAN ST. DEV. N
50% 84% 98%

FEBRUARY
FL 290

		MEAN										LAT												
70N													70N											
65						.086	.058	3					.086	.058	3	65								
						.056	.132	.164					.056	.132	.164									
60										.101	.074	26		.101	.074	26	60							
										.073	.150	.368		.073	.150	.368								
55										.079	.052	70	.115	.073	50	.070	.048	32	55					
										.059	.126	.221	.091	.202	.249	.053	.109	.201						
50						.052		1	.053		1					.067	.041	141	50					
																.055	.093	.228						
45	.049	1			.106	.056	21		.028	.008	11	.106	.075	5	.110	.096	45	.061	.045	116	45			
					.092	.185	.219		.027	.035	.041	.063	.186	.219	.067	.181	.364	.046	.098	.214				
40	.061	.011	2						.060		1	.083	.064	125	.076	.039	3	.058	.035	29	40			
	.061	.068	.071									.058	.137	.285	.052	.106	.129	.050	.097	.140				
35	.044	.035	3		.108	.079	24		.085	.079	10	.056	.068	29							.081	.077	60	35
	.039	.074	.088		.078	.181	.321		.055	.116	.274	.034	.073	.247							.052	.111	.342	
30	.054	.015	2	.057	.029	15	.071	.037	14			.043	.022	20							.055	.031	51	30
	.054	.064	.068	.051	.073	.127	.066	.078	.167			.038	.057	.098							.048	.073	.136	
25	.073	.022	3		.050		1		.041	.017	6										.054	.025	10	25
	.073	.097	.106						.040	.052	.071										.044	.075	.101	
20				.050	.017	11	.048	.015	5		.034	.021	13		.031	.010	9				.040	.019	38	20
				.047	.069	.073	.040	.064	.069		.025	.051	.074		.029	.041	.048				.021	.061	.075	
15									.031	.010	9										.031	.010	9	15
									.030	.042	.051										.030	.042	.051	
10		.032	.011	6	.040		1	.072		1	.056		1	.028	.012	7					.034	.016	16	10
		.032	.038	.050										.027	.042	.046					.022	.050	.067	
5		.029	.003	2																	.029	.003	2	5
		.029	.030	.031																	.029	.030	.031	
0		.026		1																	.026		1	0
5					.021		1	.017		1											.019	.025	2	5
10					.017	.001	2														.017	.001	2	10
					.017	.018	.018														.017	.018	.018	
15					.029	.012	4	.020		1					.027	.012	5				.027	.012	5	15
					.029	.040	.046								.025	.037	.046				.025	.037	.046	
20					.025		1														.025		1	20
25								.031		1											.031		1	25
30		.054		1	.057	.021	3	.064	.012	4											.060	.016	8	30
					.052	.074	.084	.064	.075	.077											.044	.077	.084	
35					.036	.031	2	.064	.024	10											.059	.028	12	35
					.036	.056	.065	.062	.088	.108											.057	.088	.107	
40					.055	.035	31							.032	0.000	2					.055	.035	53	40
					.044	.081	.162							.032	.032	.032					.042	.079	.162	
45S																								45S

LONGITUDE

CODE: MEAN ST. DEV. N
50% 84% 98%

FEBRUARY
FL 310

		MEAN												LAT				
70N																		
65								.164	.090	3							.164 .090 3 .145 .238 .277	
60									.151	.106	26		.053	.008	7		.056 .005 6 .059 .099 .060	
55									.103	.078	67		.160	.107	54		.087 .066 35 .068 .134 .269	
50									.069	.162	290						.086 .061 155 .063 .133 .282	
45	.059	.014	4		.152	.060	21		.031	.017	11		.142	.079	13		.146 .115 45 .059 .142 .276	
40	.064	.019	3						.071	.024	3		.103	.085	6		.104 .087 135 .061 .126 .153	
35	.066	.010	2		.131	.110	32		.089	.025	2		.046	.016	17		.066 .068 23 .051 .100 .262	
30		.068	.041	18		.079	.050	14		.096	.083	11		.051	.039	20		.070 .054 63 .055 .077 .245
25	.068	.010	7		.070	.034	10		.073		1		.054	.020	13		.063 .024 35 .062 .074 .115	
20		.049	.016	17		.038	.004	4		.037	.027	22		.034	.009	9		.040 .021 52 .021 .062 .080
15		.027	.012	4		.018	.018	2		.039	.021	14						.034 .021 20 .026 .059 .075
10		.042	.013	4					.033	.022	16		.027	.010	7		.033 .018 34 .021 .055 .072	
5									.028	.019	17						.028 .019 17 .024 .040 .077	
0		.019		1		.057		1		.024	.018	18						.026 .019 20 .020 .053 .067
5						.030		1		.021	.010	16						.022 .010 17 .017 .034 .039
10						.044	.015	2		.025	.016	7						.030 .017 9 .029 .048 .057
15						.031	.015	2		.021	.012	7						.023 .013 9 .021 .037 .045
20	.049	.008	2	.049		.049	.017	2		.019	.010	6						.033 .018 11 .032 .052 .063
25	.054	.030	5			.073	.023	2		.034	.005	2						.054 .028 9 .038 .082 .111
30						.081	.019	5		.031	.015	4						.059 .030 9 .051 .095 .097
35						.051	.011	3		.055	.023	16						.055 .022 19 .055 .076 .096
40						.055	.033	52						.040	.007	2		.054 .033 54 .045 .079 .155
45S																		
	15E	60E	105E	150E	165W	120W	75W	30W	15E									

LONGITUDE

CODE:

MEAN	ST. DEV.	N
— 50%	84%	98%

FEBRUARY
FL 330

													MEAN			LAT				
70N													.273 .032 2	.141 .108 13		.159 .111 15	70N			
													.273 .294 .303	.092 .312 .327		.157 .309 .327				
65													.298 .131 3	.143 .043 7	.099 .036 4	.174 .041 4	.166 .091 18	65		
													.330 .405 .436	.142 .148 .229	.066 .130 .154	.165 .205 .236	.124 .240 .403			
60														.229 .145 29		.200 .053 4	.226 .138 33	60		
														.219 .380 .543		.225 .237 .241	.219 .351 .539			
55													.456 1		.234 .145 50	.138 .100 32	.177 .133 150	55		
														.095 .283 .413		.103 .239 .374	.106 .320 .458			
50													.330 .155 4		.195 .082 5	.130 .117 169	.137 .121 178	50		
													.382 .466 .467		.204 .413 .495	.088 .221 .413	.093 .255 .442			
45													.223 .127 21	.235 .127 7	.042 .029 12	.178 .095 6	.192 .142 78	.150 .124 253	45	
													.187 .380 .412	.167 .389 .416	.028 .064 .110	.145 .297 .313	.169 .318 .544	.105 .287 .466		
40													.107 .086 7		.061 .023 14	.145 .123 143	.164 .103 12	.097 .076 28	.132 .112 233	40
													.077 .195 .263		.053 .058 .103	.089 .273 .438	.206 .271 .297	.065 .162 .285	.085 .259 .417	
35													.100 .052 9		.147 .119 31	.071 .004 2	.074 .058 54	.081 .073 30	.097 .087 127	35
													.097 .160 .192		.087 .308 .426	.071 .073 .074	.052 .098 .211	.047 .173 .244	.059 .172 .360	
30													.085 .021 4	.061 .028 20	.081 .056 14	.078 .043 6	.052 .030 34	.050 .031 20	.061 .037 98	30
													.087 .106 .108	.059 .067 .139	.064 .081 .232	.058 .134 .141	.045 .083 .126	.042 .074 .132	.053 .082 .147	
25													.072 .032 8	.061 .016 5	.032 .009 5	.076 .032 3	.031 .023 35		.042 .030 56	25
													.058 .102 .136	.057 .070 .089	.032 .040 .045	.063 .102 .118	.019 .057 .088		.028 .063 .119	
20													.055 .019 17	.042 .034 6		.052 .039 26		.032 .008 9	.049 .032 58	20
													.058 .074 .087	.028 .062 .108		.043 .109 .122		.029 .040 .046	.023 .079 .121	
15													.033 .008 3	.019 .004 4					.025 .009 7	15
													.030 .040 .043	.021 .022 .023					.023 .031 .042	
10													.049 .016 4	.024 .007 4		.032 .013 7			.034 .016 15	10
													.047 .062 .070	.020 .028 .034		.030 .044 .052			.030 .051 .066	
5													.020 .001 2	.026 .005 4	.116 1				.037 .033 7	5
													.020 .020 .020	.025 .029 .033					.024 .036 .106	
0													.022 .020 5						.022 .020 5	0
													.019 .034 .056						.019 .034 .056	
5													.028 .009 6	.029 .007 3					.028 .009 9	5
													.027 .038 .040	.034 .035 .035					.032 .037 .040	
10													.032 .011 5	.021 .006 6					.025 .011 11	10
													.036 .041 .047	.023 .026 .028					.024 .036 .046	
15													.031 .006 2	.023 .015 11					.025 .014 13	15
													.031 .035 .037	.017 .034 .056					.021 .037 .056	
20													.075 1	.037 1	.026 .021 16				.029 .023 18	20
															.022 .043 .076				.021 .048 .082	
25													.034 .006 3	.036 1	.049 .031 23				.047 .029 27	25
													.030 .036 .042		.048 .085 .104				.042 .080 .103	
30													.075 .020 5	.075 1	.068 .031 32				.069 .030 38	30
													.083 .090 .091		.062 .099 .130				.068 .095 .129	
35													.084 .027 7	.078 .034 29					.078 .033 36	35
													.079 .108 .126	.077 .108 .154					.078 .108 .148	
40													.055 .041 52	.084 .038 12		.056 .022 2		.068 .041 66	40	
													.053 .097 .167	.077 .116 .158		.056 .070 .076		.050 .102 .166	45S	
45S																				45S

CODE:

MEAN	ST. DEV.	N
50%	84%	98%

FEBRUARY
FL 370

		MEAN												LAT						
										.311				1						
70N																				
65										.567 .093 .50	.551 .098 .11	.356	1	.333 .020 .4	.547 .109 .66					
										.570 .648 .764	.541 .649 .727			.323 .346 .364	.545 .643 .764					
60						.314 .121 .9	.527 .148 .47	.417 .192 .47						.213 .110 .4	.449 .185 .107					
						.318 .451 .469	.550 .678 .739	.439 .575 .739						.222 .320 .333	.461 .643 .737					
55						.358 .180 .53	.404 .208 .24	.348 .175 .80						.335 .180 .39	.376 .185 .253					
						.322 .526 .720	.423 .567 .851	.350 .538 .653						.465 .624 .764	.388 .566 .757					
50						.465 .241 .27	.400 .152 .21	.428 .106 .8						.278 .172 .168	.307 .194 .239					
						.489 .672 .882	.424 .538 .655	.404 .473 .508						.268 .459 .657	.302 .504 .690					
45	.388	1				.433 .188 .22	.406 .149 .27	.312 .228 .44						.252 .164 .127	.305 .198 .293					
						.420 .616 .807	.379 .607 .661	.282 .561 .812						.245 .425 .576	.284 .516 .737					
40	.327 .100 .6					.360 .149 .12	.419 .161 .19	.254 .154 .23						.286 .171 .44	.268 .172 .410					
	.341 .381 .482					.322 .526 .611	.369 .570 .736	.236 .424 .510						.257 .470 .592	.233 .462 .630					
35	.190 .136 .7					.261 .135 .49	.180 .125 .26	.118 .114 .99						.533 .019 .4	.172 .142 .277					
	.105 .337 .427					.243 .389 .575	.139 .295 .480	.080 .173 .463						.525 .549 .562	.117 .316 .560					
30	.080 .024 .5	.077 .035 .16				.094 .075 .27	.117 .076 .21	.138 .122 .119						.066 .033 .20	.063 .193 .390					
	.078 .101 .116	.064 .109 .160				.072 .119 .298	.086 .227 .271	.095 .299 .442						.064 .100 .133						
25	.074	1				.058 .001 .3	.061 .007 .7	.078 .057 .94							.079 .055 .111					
						.059 .059 .060	.084 .179 .222	.076 .122 .246							.070 .119 .243					
20						.068 .038 .15	.116 .105 .3	.063 .051 .24						.044 .021 .2	.064 .050 .53					
						.057 .106 .144	.043 .193 .255	.050 .102 .189						.042 .065 .072	.049 .102 .240					
15						.031 .004 .4	.013 .015 .4	.027 .020 .24							.026 .018 .32					
						.033 .035 .035	.006 .023 .036	.025 .035 .080							.025 .035 .073					
10						.049 .026 .6	.016	.020 .005 .11						.038 .014 .7	.029 .018 .43					
						.044 .076 .089		.020 .024 .030						.034 .040 .068	.023 .039 .075					
5						.024 .008 .3		.021 .009 .23							.023 .011 .28					
						.024 .031 .034		.020 .029 .040							.023 .034 .049					
0								.018 .009 .23							.022 .012 .27					
								.034 .049 .060							.024 .029 .049					
5								.022 .013 .24							.023 .013 .28					
								.031 .006 .2							.023 .033 .049					
10						.018 .003 .3	.019 .009 .18	.056 .018 .2							.022 .014 .23					
						.017 .021 .023	.019 .027 .035	.056 .068 .073							.022 .028 .058					
15						.036 .014 .6	.025 .012 .7	.085							.034 .019 .14					
						.035 .051 .055	.024 .041 .045								.024 .050 .077					
20	.035 .004 .3	.024	1			.051 .017 .7	.075 .016 .2							.049 .020 .13						
	.035 .038 .043					.044 .062 .061	.075 .085 .089							.040 .063 .089						
25		.030 .003 .5				.046 .013 .6	.052 .011 .3							.041 .014 .14						
		.030 .032 .033				.049 .055 .060	.046 .061 .067							.032 .054 .066						
30		.045 .001 .2				.066 .037 .6	.040 .003 .4							.054 .029 .12						
		.045 .046 .046				.055 .102 .127	.041 .043 .043							.043 .074 .122						
35						.097 .036 .14	.123 .086 .3							.101 .050 .17						
						.086 .131 .169	.092 .193 .234							.087 .134 .221						
40						.082 .046 .51	.142	1						.090 .013 .2	.083 .045 .54					
						.069 .119 .197								.090 .099 .102	.072 .119 .196					
45S																				

LONGITUDE

CODE:

MEAN	ST. DEV.	N
50%	84%	98%

FEBRUARY
FL 410

	MEAN										LAT									
70N												70N								
65					.755	.284	.13	.745	.018	.2		.754	.265	.15	65					
					.693	1.139	1.213	.745	.757	.762		.708	1.100	1.210						
60					.562		1	.739	.216	.17	.664	.224	.40	.717	.088	.3	60			
								.696	.923	1.171	.651	.833	1.176	.725	.790	.817				
55					.789	.272	.32				.576	.212	.92	.724	.286	.54	55			
					.827	.991	1.377				.614	.769	.946	.753	1.011	1.300				
50					.677	.262	.47	.545	.061	.3	.740	.212	.28	.757	.242	.14	50			
					.610	.985	1.186	.535	.596	.621	.736	.879	1.278	.716	.847	1.334				
45					.659	.229	.29	.376	.216	.33	.566	.309	.43	.559	.272	.53	45			
					.683	.859	1.128	.398	.578	.767	.581	.825	1.168	.563	.800	1.195				
40	.351	.208	.5	.437	.203	.26	.281	.199	.12	.450	.214	.47	.407	.240	.143	.286	.055	.2	40	
	.307	.512	.700	.452	.649	.798	.222	.525	.634	.481	.617	.901	.361	.666	.964	.286	.329	.347		
35	.355	.174	.20	.279	.176	.35	.146	.019	.3	.252	.203	.13	.216	.157	.15				35	
	.371	.499	.730	.227	.491	.640	.145	.157	.162	.116	.457	.652	.193	.425	.523					
30	.113	.084	.11	.094	.045	.16	.059	.054	.10	.091	.041	.15	.091	.041	.15				30	
	.077	.163	.310	.088	.139	.182	.039	.120	.142	.083	.115	.199	.083	.115	.199					
25	.063	.008	.2				.029	.023	.6	.089	.003	.2							25	
	.063	.068	.071				.026	.051	.061	.089	.091	.092								
20				.099	.057	.10	.015	.012	.3				.045	.012	.9				20	
				.089	.132	.222	.009	.025	.031				.043	.055	.067					
15				.033	.017	.4	.019	.011	.3										15	
				.032	.050	.051	.020	.029	.032											
10	.050		1	.041	.020	.4	.010	0.000	.2	.048	.018	.7							10	
				.067	.093	.111	.010	.010	.010	.039	.070	.078								
5				.048	.011	.2													5	
				.048	.055	.058	.036	.005	.3											
0																			0	
5							.038		1										5	
10																			10	
15																			15	
20																			20	
25																			25	
30							.093	.051	.3	.074		1					.088	.045	.4	30
							.074	.134	.158								.058	.120	.157	
35							.152	.058	.9								.152	.058	.9	35
							.182	.206	.210								.182	.206	.210	
40							.114	.064	.50					.181	.118	.2	.117	.068	.52	40
							.110	.161	.261					.181	.260	.293	.110	.168	.297	
45S																				45S
	15E	60E	105E	150E	165W	120W	75W	30W	15E											

LONGITUDE

CODE:	MEAN	ST. DEV.	N
	50%	84%	98%

FEBRUARY
FL 430

											MEAN	LAT												
70N												70N												
65					1.234	.165	3					1.234	.165	3	65									
60					1.211	1.371	1.438					1.211	1.371	1.438	60									
55								.777	.263	.27		.777	.263	.27	55									
50								.742	.906	1.465		.742	.906	1.465	50									
45								.629	.254	.68	.837	.354	.51	.645	.269	.28	.704	.311	.147	45				
40								.638	.913	1.097	.776	1.181	1.548	.645	.891	1.095	.683	.958	1.449	40				
35											.756	.112	.844	.526	.263	.167	.511	.822	1.262	35				
30					1.037	.372	3				.825	.839	.844	.501	.786	1.196	.511	.822	1.262	30				
25					1.272	1.309	1.325				.609	.266	.47	.516	.256	.116	.472	.787	1.068	25				
20					.803	.281	.26	.328	.194	.11	.776	.419	.4	.516	.256	.116	.472	.787	1.068	20				
15					.819	1.051	1.255	.284	.514	.693	.655	1.127	1.411	.598	.810	1.246	.472	.787	1.068	15				
10					.661	.215	.17	.170	.053	.5	.467	.282	.117	.400	.202	.28	.467	.273	.167	10				
5					.722	.879	.936	.168	.208	.254	.406	.736	1.254	.360	.627	.782	.410	.736	1.149	5				
0					.351	.265	.27	.588	.065	.669	.289	.226	.14				.353	.254	.45	0				
5					.296	.626	.982	.584	.650	.669	.263	.517	.786				.296	.626	.982	5				
10					.123	.082	.14	.332	.151	.3	.112	.063	.19				.120	.091	.56	10				
15					.094	.060	.20	.405	.449	.466	.098	.142	.272				.082	.167	.997	15				
20					.075	.150	.247							.050	.015	.9	.071	.056	.23	20				
25					.040	.018	.9										.054	.120	.218	25				
30					.030	.064	.070										.013		.1	30				
35					.106	.069	.10													35				
40					.085	.140	.253													40				
45S																				45S				
	15E	60E	105E	150E	165W	120W	75W	30W	15E															

LONGITUDE

CODE:

MEAN	ST. DEV.	N
50%	84%	98%

FEBRUARY
FL 450

		MEAN									LAT							
70N												70N						
65						1.234	.287	3					65					
						1.190	1.472	1.588										
60									.904	.341	27		60					
									.812	1.349	1.716							
55									.692	.305	68		55					
									.664	.999	1.402							
50										.971	.433	50		50				
										.969	1.381	1.953						
45									.762	.327	28		45					
									.602	1.095	1.288							
45		.895	.298	21		.447	.271	11	1.048	.473	4	.682	.311	45		45		
		.920	1.221	1.409		.355	.730	.983	.964	1.475	1.722	.554	.884	1.216				
40						.243		1	.495	.290	117					40		
									.441	.788	1.226							
35									.240	.026	2	.280	.210	14		35		
									.240	.257	.264	.256	.486	.687				
30		.140	.101	14					.115	.049	19					30		
		.105	.252	.369		.133	.080	14	.120	.154	.211							
						.103	.198	.314										
25																25		
20		.114	.080	10						.048	.015	9					20	
		.090	.154	.285						.048	.065	.070						
15																15		
10		.087	.031	4					.049	.015	7					10		
		.077	.115	.133					.040	.071	.074							
5																5		
0																0		
5						.060		1								5		
10																10		
15																15		
20																20		
25																25		
30																30		
35																35		
40						.138	.078	50		.243	.150	2		.142	.084	52		40
						.123	.217	.322		.243	.345	.367		.123	.220	.392		
45S																45S		
	15E	60E	105E	150E	165W	120W	75W	30W	15E									
	LONGITUDE																	

CODE:

MEAN	ST. DEV.	N
50%	84%	98%

FEBRUARY
FL 470

		MEAN										LAT	
70N													70N
65					1.229 .409 3 1.067 1.559 1.761							1.229 .409 3 1.067 1.559 1.761	65
60						1.050 .429 27 .934 1.556 2.075						1.050 .429 27 .934 1.556 2.075	60
55						.836 .366 68 .796 1.257 1.598	1.098 .460 50 1.100 1.547 2.152		.875 .398 28 .618 1.374 1.534			.933 .424 146 .699 1.393 1.867	55
50									.697 .378 170 .624 1.141 1.563			.697 .378 170 .624 1.141 1.563	50
45		.993 .305 21 .976 1.254 1.546		.630 .449 11 .436 .953 1.624		1.032 .367 4 .938 1.359 1.572	.774 .389 45 .772 1.091 1.632		.637 .379 116 .557 .967 1.771			.714 .397 197 .649 1.087 1.753	45
40						.577 .323 117 .498 .845 1.455			.493 .255 27 .497 .751 1.019			.561 .313 144 .459 .842 1.419	40
35		.413 .252 22 .345 .666 .906				.323 .229 14 .299 .539 .765						.378 .247 36 .236 .658 .893	35
30	.161 .110 14 .132 .320 .366		.131 .061 13 .116 .200 .250			.112 .043 19 .106 .144 .204						.132 .077 46 .104 .196 .364	30
25													25
20	.123 .091 10 .098 .166 .319						.053 .020 9 .052 .071 .090					.090 .078 19 .059 .155 .287	20
15													15
10	.104 .042 4 .102 .145 .156					.058 .015 7 .062 .076 .078						.074 .038 11 .062 .100 .152	10
5													5
0													0
5				.062	1							.062	1
10													10
15													15
20													20
25													25
30													30
35													35
40		.184 .091 50 .143 .268 .372					.297 .165 2 .297 .408 .454					.169 .098 52 .143 .271 .391	40
45S													45S
		15E	60E	105E	150E	165W	120W	75W	30W	15E			
LONGITUDE													

CODE: MEAN ST. DEV. N
50% 84% 98%

FEBRUARY
FL 490

		MEAN										LAT											
70N													70N										
65					1.427	.326	3						1.427	.326	3	65							
					1.259	1.683	1.858						1.259	1.683	1.858								
60								1.183	.425	27			1.183	.425	27	60							
								1.107	1.760	1.887			1.107	1.760	1.887								
55								.957	.366	68	1.260	.499	50	1.047	.471	28	55						
								.928	1.305	1.740	1.222	1.691	2.581	1.033	1.595	1.817	1.078	.457	146				
50													.757	.399	170	.779	1.515	2.222	50				
													.653	1.167	1.611	.653	1.167	1.611					
45			1.108	.363	21			677	.402	11	1.352	.424	4	.905	.491	45	723	.442	116	45			
			1.132	1.481	1.795			.550	1.190	1.343	1.290	1.684	1.965	.905	1.435	1.818	.626	1.130	2.034	.816	.469	197	
40											.696	.384	117				.568	.300	27	.672	.373	144	40
											.615	1.068	1.622				.493	.786	1.257	.537	1.059	1.620	
35			.513	.338	22						.340	.232	14							.446	.312	36	35
			.436	.842	1.327						.290	.479	.827							.303	.779	1.267	
30		.182	.127	.14	.148	.073	13				.143	.056	19							.156	.090	.46	30
		.146	.314	.453	.130	.213	.314				.131	.200	.258							.122	.210	.410	
25																							25
20		.137	.105	10										.081	.025	9				.101	.087	13	20
		.109	.202	.358										.064	.070	.105				.066	.168	.328	
15																							15
10		.120	.056	4							.065	.026	7							.085	.047	11	10
		.126	.174	.178							.060	.092	.098							.081	.127	.176	
5																							5
0																							0
5						.065	1													.065		1	5
10																							10
15																							15
20																							20
25																							25
30																							30
35																							35
40				.196	.089	50								.216	.043	2				.187	.088	52	40
				.190	.286	.361								.216	.246	.259				.190	.280	.380	
45S																							45S
	15E	60E	105E	150E	165W	120W	75W	30W	15E														

LONGITUDE

CODE: MEAN ST. DEV. N
50% 84% 98%

FEBRUARY
FL 510

	MEAN										LAT													
70N												70N												
65					1.637	.348	3					1.637	.348	3	65									
					1.561	1.925	2.075					1.561	1.925	2.075										
60								1.298	.476	27		1.298	.476	27	60									
								1.282	1.745	2.269		1.282	1.745	2.269										
55								1.125	.370	68	1.418	.622	50	1.148	.509	28	1.230	.514	146	55				
								1.106	1.484	1.927	1.370	1.864	2.863	1.071	1.825	2.073	1.230	1.696	2.742					
50														.882	.452	170	.882	.452	170	50				
														.849	1.347	1.855	.849	1.347	1.855					
45			1.220	.428	21			.657	.344	11	1.465	.535	4	.988	.508	48	.854	.500	116	.921	.511	197	45	
			1.293	1.549	2.125			.518	.964	1.379	1.305	1.917	2.275	.887	1.432	2.024	.791	1.259	2.324	.856	1.388	2.328		
40											.816	.430	117				.728	.344	27	.800	.417	144	40	
											.735	1.246	1.906				.612	1.097	1.432	.683	1.216	1.871		
35						.689	.453	21												.500	.424	35	35	
						.581	1.340	1.608												.519	.952	1.553		
30	.210	.150	.14	.176	.094	13					.192	.121	19							.193	.125	46	30	
	.163	.285	.548	.143	.251	.393					.144	.313	.477							.142	.305	.551		
25																							25	
20		.156	.109	.10										.067	.027	9				.114	.092	19	20	
		.130	.213	.392										.058	.088	.119				.084	.178	.354		
15																							15	
10	.136	.070	.4								.070	.028	7							.094	.057	11	10	
	.145	.204	.208								.060	.103	.114							.081	.148	.207		
5																							5	
0																							0	
5								.067	1										.067	1				5
10																							10	
15																							15	
20																							20	
25																							25	
30																							30	
35																							35	
40				.246	.094	50								.379	.170	2				.251	.101	52	40	
				.252	.350	.425								.379	.495	.542				.250	.352	.432		
45S																							45S	

LONGITUDE

CODE:

MEAN	ST. DEV.	N
50%	84%	98%

FEBRUARY
FL 530

	MEAN										LAT															
70N												70N														
65					1.934	.341	3					1.934	.341	3	65											
60					1.744	2.199	2.386					1.744	2.199	2.386	60											
55								1.403	.471	27				1.403	.471	27	55									
50								1.304	1.777	2.456				1.304	1.777	2.456	50									
45								1.305	.397	68	1.608	.661	50	1.264	.534	28	1.401	.548	146	45						
40								1.279	1.686	2.140	1.531	2.216	3.099	1.258	1.692	2.472	1.041	1.941	2.774	40						
35														.976	.485	172	.976	.485	172	35						
30														.915	1.453	2.149	.915	1.453	2.149	30						
25								1.370	.566	21				1.024	.510	116	1.094	.562	197	25						
20								1.209	2.004	2.543	.978	.532	11	1.638	.478	4	1.123	.627	45	1.001	1.389	2.295	1.035	1.598	2.507	20
15											.823	1.511	2.045	1.608	2.016	2.300	.963	1.576	2.633							15
10														.956	.502	117				911	.395	27	.947	.484	144	10
5											.893	1.464	2.193							820	1.154	1.883	.813	1.435	2.222	5
0														.642	.483	14							.761	.502	35	0
5											.517	1.074	1.704										.631	1.116	1.953	5
10														.257	.173	19							.254	.184	46	10
15														.201	.446	.677							.169	.452	.786	15
20																										20
25																										25
30																										30
35																										35
40																										40
45S																										45S
	15E	60E	105E	150E	165W	120W	75W	30W	15E																	

LONGITUDE

CODE:

MEAN	ST. DEV.	N
50%	84%	98%

FEBRUARY
FL 550

		MEAN												LAT		
70N																70N
65																65
60																60
55																55
50																50
45																45
40																40
35																35
30																30
25																25
20																20
15																15
10																10
5																5
0																0
5																5
10																10
15																15
20																20
25																25
30																30
35																35
40																40
45S																45S
	15E	60E	105E	150E	165W	120W	75W	30W	15E							

LONGITUDE

CODE:

MEAN	ST. DEV.	N
50%	84%	98%

FEBRUARY
FL 570

		MEAN										LAT	
70N													70N
65					2.556 .597 3							2.556 .597 3	65
60					2.780 3.031 3.134							2.780 3.031 3.134	60
55						2.058 .557 24						2.058 .557 24	55
50						2.090 2.621 3.126						2.090 2.621 3.126	50
45						1.889 .474 68		2.224 .669 50	1.755 .628 28			1.978 .606 146	45
40						1.902 2.347 2.955		2.395 2.946 3.309	1.829 2.284 2.997			1.563 2.512 3.235	40
35									1.477 .590 172			1.477 .590 172	35
30									1.420 2.040 2.942			1.420 2.040 2.942	30
25													25
20													20
15													15
10													10
5													5
0													0
5													5
10													10
15													15
20													20
25													25
30													30
35													35
40													40
45S													45S
	15E	60E	105E	150E	165W	120W	75W	30W	15E				

LONGITUDE

CODE:

MEAN	ST. DEV.	N
50%	84%	98%

FEBRUARY
FL 590

		MEAN										LAT		
70N													70N	
65					2 323 100 3 2 294 2 405 2 450								2 323 100 3 2 294 2 405 2 450	65
60						2 545 640 24 2 505 3 302 3 682							2 545 640 24 2 505 3 302 3 682	60
55						2 313 558 68 2 445 2 821 3 355	2 607 716 50 2 751 3 361 3 837	2 151 559 28 2 229 2 594 3 292					2 383 641 146 1 982 3 003 3 549	55
50								1 769 640 172 1 784 2 402 3 201					1 769 640 172 1 784 2 402 3 201	50
45		2 217 566 21 2 247 2 788 3 260			1 918 573 11 1 786 2 561 2 919	2 806 662 4 2 815 3 348 3 677	1 979 704 45 1 864 2 619 3 503	1 817 592 115 1 730 2 396 3 268					1 923 643 196 1 674 2 558 3 469	45
40						1 724 582 117 1 637 2 212 3 293		1 632 461 27 1 671 2 010 2 544					1 707 563 144 1 580 2 193 3 257	40
35		1 389 521 21 1 273 2 048 2 322				1 242 354 14 1 341 1 597 1 744							1 330 467 35 1 276 1 791 2 308	35
30	604 343 14 561 729 1 419	707 436 13 484 904 1 685				827 455 19 606 1 308 1 754							725 429 46 520 1 167 1 744	30
25														25
20	.480 .192 10 .475 .685 .816						.247 .068 9 .280 .304 .344						.369 187 19 .302 526 .607	20
15														15
10	.394 .147 4 .436 .316 .541					.251 074 7 .240 .312 .366							.303 126 11 .289 425 .532	10
5														5
0														0
5				.409	1								.409	1
10														10
15														15
20														20
25														25
30														30
35														35
40			.777 .174 50 .767 .962 1 079				1 430 100 2 1 430 1 497 1 525						.602 213 52 .771 .999 1 325	40
45S														45S
	15E	60E	105E	150E	165W	120W	75W	30W	15E					
	LONGITUDE													

CODE:

MEAN	ST. DEV.	N
50%	84%	98%

MARCH
FL 190

		MEAN												LAT						
70N																70N				
65						.034	.013	8							.034	.013	8	65		
						.028	.050	.058							.028	.050	.058			
60									.047	.011	29				.047	.011	29	60		
									.049	.057	.067				.049	.057	.067			
55									.048	.012	38	.048	.015	67	.050	.014	34	55		
									.049	.059	.073	.050	.064	.074	.048	.063	.079	.049	.014	139
50												.053	.023	157	.053	.023	157	50		
												.052	.073	.107	.052	.073	.107	.049	.062	.078
45				.054	.009	21			.037	.007	6	.052	.020	63	.048	.014	142	.047	.016	248
				.050	.063	.075			.028	.044	.067	.038	.043	.048	.045	.056	.084	.044	.062	.081
40	.060	.012	2						.049	.017	150	.033	.005	2	.043	.012	33	.048	.016	187
	.060	.067	.071						.050	.063	.083	.033	.036	.037	.042	.052	.073	.048	.062	.082
35				.057	.020	31			.026	.013	22				.045	.023	53	.048	.062	.082
				.054	.069	.111			.028	.036	.055				.044	.065	.103			
30		.039	.012	5					.041	.018	32				.045	.017	55	.044	.061	.080
		.048	.048	.049		.053	.068	.074	.040	.052	.081				.044	.061	.080			
25		.051		1											.051		1			
20		.031	.016	7	.057	1			.046	.008	4			.038	.013	7	.038	.015	19	
		.026	.046	.057					.045	.054	.057			.037	.047	.061	.037	.057	.062	
15		.050		1											.050		1			
10		.037	.009	2					.029	.015	13				.030	.014	15			
		.037	.043	.046					.025	.045	.057				.027	.046	.057			
5																				
0																				
5					.013	.009	5								.013	.009	5			
					.012	.020	.027								.012	.020	.027			
10																				
15												.022		1	.022		1			
20																				
25																				
30																				
35					.034		1								.034		1			
40				.037	.013	56						.016	.002	3	.036	.014	59			
				.034	.046	.062						.015	.018	.019	.033	.046	.062			
45S				.036	.017	2	.021	1							.031	.016	3			
				.036	.048	.052									.021	.043	.052			
	15E	60E	105E	150E	165W	120W	75W	30W	15E											
	LONGITUDE																			

CODE:	MEAN	ST. DEV.	N
	50%	84%	98%

MARCH
FL 210

		MEAN											LAT								
70N																70N					
65						.036	.011	8							.036	.011	8	65			
						.033	.049	.056							.033	.049	.056				
60									.051	.012	29				.051	.012	29	60			
									.052	.050	.072				.052	.050	.072				
55									.052	.013	38	.052	.018	67	.056	.018	35	55			
									.051	.064	.076	.051	.067	.083	.053	.071	.096	.053	.017	140	
50						.047		1							.055	.024	160	.055	.024	161	
									.051	.076	.108				.051	.076	.108			.108	
45				.058	.015	21	.031	.013	17	.039	.007	7	.055	.022	63	.046	.015	142	.048	.018	250
				.054	.064	.101	.028	.044	.056	.040	.043	.047	.057	.072	.118	.046	.058	.077	.044	.063	.084
40	.065	.002	2				.052	.008	2	.050	.018	162	.058	.030	13	.043	.015	33	.050	.019	212
	.065	.060	.067				.052	.057	.060	.051	.063	.098	.044	.103	.112	.043	.054	.080	.047	.063	.103
35	.058	.010	3			.063	.022	39	.043	.022	4	.036	.024	28					.051	.026	74
	.064	.065	.065			.057	.075	.126	.044	.063	.069	.028	.056	.097					.049	.072	.116
30				.044	.018	6	.054	.014	18				.041	.017	32				.045	.017	56
				.044	.054	.075	.055	.070	.076				.041	.058	.079				.041	.061	.078
25				.056		1						.034		1					.045	.011	2
																			.045	.052	.056
20				.032	.018	7	.047	.011	3	.057	.029	14	.045		1	.038	.012	7	.046	.024	32
				.027	.047	.064	.044	.056	.061	.051	.074	.121				.039	.046	.058	.027	.067	.102
15				.060	.006	2	.071	.006	2										.065	.008	4
				.060	.064	.066	.071	.074	.075										.060	.071	.075
10				.044	.002	2				.033	.014	13			.061		1		.036	.015	16
				.044	.045	.045				.029	.046	.060							.034	.052	.061
5																					
0																					
5							.010	.005	5										.010	.005	5
							.007	.015	.018										.007	.015	.018
10																					
15													.023		1				.023		1
20													.016		1				.016		1
25																					
30																					
35							.036		1										.036		1
40							.038	.013	56				.023	.012	3				.037	.013	59
							.037	.046	.073				.016	.032	.038				.037	.046	.073
45S							.033	.017	2	.018		1							.028	.016	3
							.033	.045	.049										.018	.040	.049
	15E	60E	105E	150E	165W	120W	75W	30W	15E												
	LONGITUDE																				

CODE:

MEAN	ST. DEV.	N
50%	84%	98%

MARCH
FL 230

		MEAN										LAT
70N												70N
65						.040 .009 8					.040 .009 8	65
						.039 .044 .057					.039 .044 .057	
60							.057 .019 29				.057 .019 29	60
							.056 .077 .097				.056 .077 .097	
55							.053 .017 38	.061 .025 56	.061 .023 34	.059 .023 138	.053 .017 38	55
							.053 .065 .095	.055 .074 .126	.055 .076 .120	.054 .072 .124	.054 .072 .124	
50						.075 .005 2				.056 .024 166	.056 .024 166	50
						.075 .078 .079				.053 .079 .114	.053 .079 .114	
45	.083 1		.059 .012 21			.042 .020 20	.033 .012 8	.059 .025 64	.047 .017 142	.050 .020 256	.047 .017 142	45
			.057 .066 .050			.038 .054 .063	.035 .045 .047	.058 .079 .128	.047 .059 .088	.043 .065 .109	.043 .065 .109	
40	.040 .010 2					.030 .011 3	.054 .027 164	.131 .177 6	.043 .015 33	.054 .041 208	.043 .015 33	40
	.040 .047 .050					.034 .039 .041	.052 .067 .103	.055 .185 .480	.044 .053 .079	.050 .066 .104	.044 .053 .079	
35	.059 .014 5		.065 .027 35			.048 .013 3	.038 .024 29			.053 .028 72	.048 .028 72	35
	.058 .074 .077		.055 .079 .137			.055 .058 .059	.033 .061 .095			.048 .075 .123	.048 .075 .123	
30		.048 .030 5	.056 .016 18				.041 .016 32			.047 .019 55	.047 .019 55	30
		.037 .066 .101	.057 .072 .084				.040 .058 .076			.043 .066 .088	.043 .066 .088	
25		.055 .006 2					.046 .018 4			.049 .016 6	.049 .016 6	25
		.055 .059 .061					.043 .063 .069			.042 .063 .069	.042 .063 .069	
20		.033 .020 7	.041 .015 4			.061 .036 6		.037 .010 7		.042 .025 24	.042 .025 24	20
		.028 .048 .071	.039 .053 .062			.050 .084 .128		.034 .044 .054		.032 .058 .106	.032 .058 .106	
15		.031 1	.029 1							.032 .006 4	.032 .006 4	15
							.035 .008 2			.030 .037 .042	.030 .037 .042	
10		.042 .002 2					.030 .012 14	.023 1		.031 .012 17	.031 .012 17	10
		.042 .043 .043					.030 .041 .054			.030 .042 .054	.030 .042 .054	
5												5
0												0
5			.012 .006 5							.012 .006 5	.012 .006 5	5
			.011 .018 .021							.011 .018 .021	.011 .018 .021	
10												10
15								.023 1		.023 1	.023 1	15
20	.041 1									.041 1	.041 1	20
25												25
30												30
35												35
40			.039 .014 56					.034 .027 3		.039 .015 59	.039 .015 59	40
			.037 .053 .077					.018 .055 .070		.037 .054 .077	.037 .054 .077	
45S				.032 .018 2	.016 1					.026 .016 3	.026 .016 3	45S
				.032 .043 .048						.016 .038 .048	.016 .038 .048	
	15E	60E	105E	150E	165W	120W	75W	30W	15E			
	LONGITUDE											

CODE:	MEAN	ST. DEV.	N
	50%	84%	98%

MARCH
FL 250

		MEAN								LAT	
70N											
65					.047 .015 8 .046 .062 .074					.047 .015 8 .046 .062 .074	65
60							.076 .035 29 .070 .109 .164			.076 .035 29 .070 .109 .164	60
55							.057 .023 38 .054 .069 .129	.072 .045 66 .056 .088 .222	.065 .028 34 .061 .083 .137	.066 .037 138 .056 .083 .194	55
50					.035 1				.062 .032 161 .056 .087 .141	.062 .032 162 .056 .087 .141	50
45		.063 .016 21 .059 .068 .109			.035 .014 16 .033 .047 .067	.045 .013 7 .042 .061 .063	.065 .036 63 .060 .081 .175	.052 .022 142 .050 .070 .119	.055 .026 249 .052 .072 .127	.055 .026 249 .052 .072 .127	45
40	.056 .013 3 .051 .067 .073				.130 .126 4 .061 .211 .330	.061 .028 160 .057 .081 .126	.047 .026 2 .047 .065 .072	.046 .021 33 .045 .055 .113	.060 .034 202 .055 .078 .126	.060 .034 202 .055 .078 .126	40
35	.052 .005 3 .054 .056 .057		.078 .043 34 .069 .114 .203		.031 .004 3 .030 .034 .036	.050 .054 33 .035 .071 .208			.063 .049 73 .053 .085 .209	.063 .049 73 .053 .085 .209	35
30		.051 .027 7 .044 .059 .103	.059 .018 18 .060 .075 .093			.040 .016 32 .043 .055 .068			.048 .020 57 .045 .063 .096	.048 .020 57 .045 .063 .096	30
25		.069 .005 2 .069 .072 .074			.086 .007 2 .086 .090 .092	.061 .007 2 .061 .066 .066			.072 .012 6 .064 .082 .091	.072 .012 6 .064 .082 .091	25
20		.035 .022 7 .030 .048 .078	.067 .046 2 .067 .098 .111		.049 .035 3 .042 .078 .093		.038 .008 7 .034 .048 .049		.042 .027 19 .034 .053 .107	.042 .027 19 .034 .053 .107	20
15		.054 .004 2 .054 .057 .058	.041 1						.050 .007 3 .050 .055 .058	.050 .007 3 .050 .055 .058	15
10		.040 .002 2 .040 .041 .042				.031 .014 14 .030 .043 .056			.032 .013 16 .032 .043 .056	.032 .013 16 .032 .043 .056	10
5											5
0											0
5				.014 .006 5 .014 .020 .024					.014 .006 5 .014 .020 .024	.014 .006 5 .014 .020 .024	5
10											10
15							.024 1		.024 1	.024 1	15
20							.060 1		.060 1	.060 1	20
25											25
30			.046 1						.046 1	.046 1	30
35				.061 .007 2 .061 .066 .068					.061 .007 2 .061 .066 .068	.061 .007 2 .061 .066 .068	35
40			.043 .018 56 .038 .055 .086				.046 .042 3 .021 .079 .103		.043 .020 59 .038 .056 .103	.043 .020 59 .038 .056 .103	40
45S				.041 .030 2 .041 .061 .069	.015 1				.032 .027 3 .015 .052 .068	.032 .027 3 .015 .052 .068	45S
	15E	60E	105E	150E	165W	120W	75W	30W	15E		

LONGITUDE

CODE:

MEAN	ST. DEV.	N
50%	84%	98%

MARCH
FL 270

		MEAN			LAT				
70N							70N		
65				.061 .037 .8 .052 .069 .139			.061 .037 .8 .052 .069 .139	65	
60				.103 .065 .29 .081 .162 .262			.103 .065 .29 .081 .162 .262	60	
55				.066 .038 .38 .057 .079 .186	.090 .067 .66 .065 .135 .280	.073 .036 .35 .062 .100 .160	.079 .054 .139 .061 .113 .275	55	
50				.057 0.000 .2 .057 .057 .057		.069 .039 .159 .064 .101 .160	.069 .038 .161 .063 .100 .160	50	
45		.087 .027 .21 .062 .070 .141		.042 .028 .16 .031 .053 .115	.054 .030 .6 .047 .066 .111	.077 .048 .63 .066 .110 .210	.060 .034 .142 .052 .079 .145	.064 .038 .248 .048 .094 .159	45
40	.091 .029 .2 .091 .110 .118			.070 .043 .155 .060 .103 .205		.060 .032 .4 .057 .068 .103	.053 .030 .35 .048 .069 .138	.067 .041 .196 .056 .100 .180	40
35		.086 .047 .34 .073 .118 .209		.035 .018 .24 .032 .053 .072			.064 .045 .58 .052 .094 .192	35	
30	.074 .1	.055 .032 .4 .046 .078 .103	.073 .053 .18 .061 .088 .218		.042 .017 .32 .044 .054 .079		.054 .037 .55 .045 .073 .106	30	
25		.068 .1		.019 .1	.065 .1		.051 .022 .3 .065 .067 .068	25	
20		.039 .025 .7 .031 .054 .086	.051 .016 .3 .045 .063 .071	.034 .017 .4 .035 .049 .056		.038 .007 .7 .039 .042 .046	.039 .018 .21 .039 .052 .083	20	
15		.003 .1	.056 .011 .3 .052 .066 .071		.041 .1		.043 .022 .5 .045 .059 .070	15	
10		.038 .002 .2 .038 .039 .040			.031 .014 .13 .030 .043 .057		.032 .014 .15 .031 .042 .057	10	
5								5	
0								0	
5				.020 .010 .5 .020 .031 .034			.020 .010 .5 .020 .031 .034	5	
10								10	
15						.025 .1	.025 .1	15	
20	.008 .1						.008 .1	20	
25								25	
30			.032 .1				.032 .1	30	
35			.047 .1				.047 .1	35	
40			.045 .024 .56 .039 .063 .064			.031 .020 .3 .023 .047 .058	.045 .024 .59 .038 .062 .084	40	
45S			.040 .031 .2 .040 .061 .070	.014 .1			.031 .028 .3 .014 .053 .069	45S	
	15E	60E	105E	150E	165W	120W	75W	30W	15E
	LONGITUDE								

CODE: MEAN ST. DEV. N
50% 84% 98%

MARCH
FL 290

		MEAN												LAT									
70N															70N								
65								.090	.056	.8					.090	.056	.8	65					
60								.085	.119	.198					.085	.119	.198	60					
55											.151	.089	.37	.261	.110	.23	.284	.104	.5	.200	.114	.65	55
50											.064	.142	.268	.069	.222	.375	.112	.080	.46	.086	.204	.369	50
45	.048	.001	.2								.054	.008	.6	.101	.054	.7	.083	.059	.171	.064	.058	.184	45
40	.075	.023	.9								.056	.061	.063	.073	.129	.203	.065	.122	.251	.064	.116	.284	40
35	.079	.025	.112								.052	.049	.3	.080	.062	.162	.137	.090	.8	.055	.036	.34	35
30	.090	.067	.6								.033	.091	.116	.061	.113	.272	.048	.073	.160	.048	.073	.160	30
25	.059	.003	.2								.107	.067	.39	.044	.008	.6	.047	.029	.28	.083	.067	.83	25
20	.056	.125	.218								.084	.174	.257	.046	.050	.052	.042	.065	.124	.057	.137	.265	20
15	.059	.003	.2								.075	.048	.23	.075	.042	.5	.047	.026	.37	.036	.001	.2	15
10	.059	.061	.062								.059	.091	.216	.056	.116	.141	.041	.056	.123	.037	.085	.183	10
5											.021	.012	.5	.065	.023	.7	.038	.008	.3	.046	.024	.19	5
0											.017	.031	.041	.036	.045	.048	.040		.1	.037	.072	.089	0
5											.045	.027	.7	.041	.021	.7	.031	.006	.2	.038	.005	.7	5
10											.032	.060	.096	.037	.061	.071	.031	.035	.037	.041	.043	.044	10
15											.034	.011	.2	.059	.020	.3				.039	.019	.26	15
20											.034	.041	.045	.073	.073	.073				.024	.056	.087	20
25											.034	0.000	.2							.033	.015	.15	25
30											.034	.034	.034							.034	.045	.062	30
35																				.035		.1	35
40																							40
45S																							45S
	15E	60E	105E	150E	165W	120W	75W	30W	15E														

LONGITUDE

CODE: MEAN ST. DEV. N
50% 84% 98%

MARCH
FL 310

		MEAN									LAT						
70N											.231	.121	.6	.231	.121	.6	70N
65											.161	.083	.6	.138	.077	.14	65
60											.148	.048	.6	.160	.133	.35	60
55											.091	.197	.374	.092	.286	.460	55
50											.108	.089	.173	.112	.094	.179	50
45	.107 .038 .2										.090	.067	.142	.108	.089	.280	45
40	.099 .065 .5										.058	.142	.269	.062	.162	.411	40
35	.088 .062 .4										.050	.118	.185	.101	.097	.244	35
30		.065 .028 .6									.046	.064	.091	.059	.036	.64	30
25		.063 .010 .3									.041			.065	.020	.11	25
20		.048 .027 .9									.037	.004	.7	.050	.026	.38	20
15		.039 .016 .4									.038	.027	.2	.043	.019	.12	15
10		.029 .006 .2									.034	.013	.13	.034	.012	.17	10
5											.038	.005	.2	.034	.043	.057	5
0																	0
5														.019	.010	.5	5
10														.017	.029	.033	10
15														.026		.1	15
20	.031 .011 .3													.041	.024	.2	20
25	.050 .009 .4													.041	.057	.064	25
30														.050	.009	.4	30
35														.050	.059	.060	35
40														.067	.018	.5	40
45														.057	.084	.096	45
														.043	.036	.3	
														.026	.072	.090	
														.040	.021	.2	
														.040	.053	.059	
														.013		.1	
														.031	.021	.3	
														.019	.047	.058	
	15E	60E	105E	150E	165W	120W	75W	30W	15E								
	LONGITUDE																

CODE:

MEAN	ST. DEV.	N
50%	84%	98%

MARCH
FL 350

		MEAN										LAT														
70N												605	.063	9					.605	.063	9	70N				
65								.425	.213	13	561	.076	10	.486	.027	4				.484	.167	27	65			
60					.206	.118	2				476	.176	53	.336	.159	10	.298	.115	9	.428	.184	74	60			
55					.364	.183	15		.655	.065	12	353	.205	55	.351	.197	78	.271	.204	60	.347	.212	220	55		
50					.480	.175	15		.332	.099	7	294	.193	19	.106	.102	16	.214	.155	173	.234	.174	230	50		
45	.252	.159	6		.340	.155	22	.361	.223	18	.133	.150	31	.328	.199	40	.267	.192	88	.205	.140	145	.245	.180	350	45
40	.224	.188	9	.556	.081	10	.335	.195	9	.107	.080	39	.186	.157	243	.107	.052	2	.170	.110	36	.190	.163	348	40	
35	.207	.129	12	.239	.177	43	.077		1	.146	.149	82	.125	.119	38							.168	.156	176	35	
30	.148	.057	6	.095	.071	16	.061	.011	3	.101	.059	79	.054	.027	41				.089	.060	168				30	
25				.060	.020	14	.071	.002	2	.084	.036	53	.033	.017	7	.030		1				.074	.036	78	25	
20				.048	.029	13	.040	.012	5	.088	.019	2	.026	.015	3	.058	.033	7				.062	.042	48	20	
15				.009	.009	2	.029	.016	9	.046	.028	6	.032	.007	4							.032	.022	21	15	
10				.037	.007	4	.036	.004	2				.035	.015	17	.033	.010	2				.036	.013	25	10	
5				.040	.043	.044	.036	.038	.039				.033	.052	.062	.033	.039	.042				.036	.045	.061	5	
0																.044	.006	2				.044	.006	2	0	
5							.029	.010	5	.036	.037	.038				.030	.006	4				.029	.008	9	5	
10																.030	.018	4				.030	.018	4	10	
15																.048	.015	5				.048	.015	5	15	
20				.066		1										.035	.008	2				.045	.016	3	20	
25				.046	.037	4	.073	.004	2							.035	.040	.042				.055	.033	6	25	
30				.153		1	.096	.006	2													.115	.027	3	30	
35							.059	.029	4													.059	.029	4	35	
40							.081	.055	57	.252	.024	3				.054	.050	3				.089	.066	63	40	
45S							.067	.034	2	.067	.089	.099	.012		1	.025	.092	.120				.048	.038	3	45S	
15E	60E	105E	150E	165W	120W	75W	30W	15E												15E						

LONGITUDE

CODE:

MEAN	ST. DEV.	N
50%	84%	98%

MARCH
FL 390

											MEAN	LAT	
70N													
65				.844 .000 2	.683 .211 46							.690 .209 48	70N
				.844 .844 .844	.697 .816 1.087							.702 .819 1.067	65
60				.669 .159 41	.648 .162 40							.664 .191 130	60
				.698 .830 .898	.637 .796 1.009		.688 .227 47	.338 .015 2				.643 .832 1.110	60
55				.631 .146 60	.588 .149 20		.583 .206 54	.577 .186 75		.503 .194 38		.581 .185 247	55
				.634 .772 .894	.625 .696 .806		.547 .806 .928	.563 .737 .958		.556 .681 .799		.592 .765 .931	55
50				.573 .250 58	.478 .275 18		.660 .180 9	.296 .256 16		.404 .206 177		.446 .239 278	50
				.619 .773 1.025	.496 .714 .971		.549 .878 .947	.168 .603 .808		.419 .609 .790		.434 .692 .930	50
45	.164 .114 6			.640 .196 31	.534 .236 41		.346 .225 42	.603 .202 25		.370 .230 88		.392 .202 142	45
	.147 .284 .327			.652 .802 1.003	.556 .721 .849		.336 .589 .724	.606 .828 .959		.352 .556 .816		.359 .619 .815	45
40	.092 .072 8			.497 .265 35	.362 .222 16		.218 .193 23	.362 .214 312		.285 .247 4		.355 .179 33	40
	.075 .084 .252			.498 .776 .976	.417 .502 .773		.125 .465 .626	.357 .576 .850		.281 .532 .550		.380 .560 .613	40
35	.058 1			.269 .213 37	.129 .053 5		.261 .202 31	.285 .194 80				.270 .200 154	35
				.192 .540 .677	.093 .175 .220		.212 .466 .725	.238 .518 .734				.140 .515 .724	35
30				.121 .073 4	.135 .086 19		.193 .164 48	.103 .102 50				.144 .134 121	30
				.125 .193 .196	.114 .229 .309		.131 .308 .720	.075 .127 .368				.106 .205 .613	30
25				.074 1	.026 .017 5		.106 .063 31	.092 .057 6				.094 .063 43	25
					.014 .043 .053		.093 .149 .259	.075 .120 .199				.086 .144 .234	25
20				.079 .039 7	.039 .024 6		.097 1	.063 .031 5		.048 .036 3		.059 .016 7	20
				.081 .098 .148	.027 .071 .074			.079 .090 .092		.025 .075 .096		.062 .077 .078	20
15				.053 .021 3	.052 .070 .078		.037 1					.049 .019 4	15
												.040 .066 .077	15
10				.070 .023 2	.036 .001 2			.037 .017 14				.040 .020 18	10
				.070 .085 .091	.036 .036 .036			.037 .056 .057				.036 .056 .080	10
5				.029 .001 2	.029 .029 .029			.039 1		.034 0.000 2		.033 .004 5	5
										.034 .034 .034		.034 .036 .039	5
0				.029 .001 2	.029 .029 .029					.057 .020 2		.043 .020 4	0
										.057 .070 .075		.033 .057 .074	0
5				.040 .009 2	.038 .012 5					.062 .014 2		.044 .015 9	5
				.040 .046 .049	.040 .050 .054					.062 .072 .075		.048 .053 .072	5
10				.039 1								.039 1	10
15										.025 1		.025 1	15
20													20
25													25
30	.060 .025 5			.055 .000 2								.058 .021 7	30
	.065 .077 .095			.055 .055 .055								.055 .067 .093	30
35				.064 .003 2	.064 .066 .067							.064 .003 2	35
												.064 .066 .067	35
40				.114 .077 56	.087 .196 312					.045 .016 3		.110 .077 59	40
										.047 .059 .063		.086 .179 .311	40
45S				.098 .073 2	.098 .147 .167		.100 1					.098 .059 3	45S
												.100 .148 .167	45S
	15E	60E	105E	150E	165W	120W	75W	30W	15E				
LONGITUDE													

CODE: MEAN ST. DEV. N
50% 84% 98%

MARCH
FL 410

		MEAN												LAT				
70N																		70N
65																		65
60																		60
55																		55
50																		50
45																		45
40																		40
35																		35
30																		30
25																		25
20																		20
15																		15
10																		10
5																		5
0																		0
5																		5
10																		10
15																		15
20																		20
25																		25
30																		30
35																		35
40																		40
45S																		45S
	15E	60E	105E	150E	165W	120W	75W	30W	15E									

LONGITUDE

CODE:

MEAN	ST. DEV.	N
50%	84%	98%

MARCH
FL 430

		MEAN										LAT							
70N														70N					
65						.741	.334	8							65				
						.784	.976	1	.223										
60										.922	.379	29			60				
										.946	1.234	1.675							
55										.663	.252	38	.756	.271	.67	55			
										.616	.945	1.146	.759	1.013	1.361				
50						.731	.031	2						.698	.286	.33	50		
						.731	.752	.761						.778	.992	1.158			
45				.816	.365	24	.662	.249	5	.422	.264	16	.757	.293	6	.485	.262	63	45
				.759	1.137	1.643	.736	.825	.913	.356	.629	.998	.706	.877	1.298	.454	.725	1.049	
40				.621	.237	9							.453	.261	147				40
				.750	.843	.856							.459	.700	1.017				
35				.388	.235	32							.303	.163	21				35
				.320	.674	.827							.227	.495	.600				
30		.094	.046	4	.208	.197	18						.114	.098	32				30
		.082	.130	.163	.145	.264	.751						.089	.154	.404				
25		.073		1															25
20		.092	.042	7				.039	.022	2				.062	.016	7			20
		.092	.122	.152				.039	.053	.059				.056	.079	.086			
15																			15
10		.096	.021	2									.043	.020	13				10
		.096	.109	.115									.046	.058	.071				
5																			5
0																			0
5						.036	.010	5											5
						.035	.046	.049											
10																			10
15													.031		1				15
20																			20
25																			25
30																			30
35																			35
40				.130	.084	56								.059	.010	3			40
				.101	.179	.351								.056	.067	.071			
45S						.152	.001	2	.282		1								45S
						.152	.153	.153											
	15E	60E	105E	150E	165W	120W	75W	30W	15E										
	LONGITUDE																		

CODE: MEAN ST. DEV. N
50% 84% 98%

MARCH
FL 450

		MEAN										LAT					
70N													70N				
65					.877	.437	8						.877	.437	8	65	
					.892	1.365	1.406						.892	1.365	1.406		
60								1.061	.481	29			1.061	.481	29	60	
								.956	1.500	2.122			.956	1.500	2.122		
55								.706	.360	38	.841	.331	66	.748	.320	33	55
								.622	1.079	1.468	.791	1.230	1.554	.763	1.016	1.395	
50													.607	.310	171	50	
													.617	.911	1.312		
45		.991	.470	21	.462	.247	16	.799	.255	6	.539	.296	63	.589	.287	141	45
		.853	1.474	1.974	.488	.659	.957	.840	.991	1.159	.481	.871	1.216	.573	.875	1.228	
40								.517	.302	147			.544	.274	33	40	
								.512	.767	1.343			.441	.801	1.205		
35		.430	.286	31				.323	.209	21			.387	.263	52	35	
		.343	.729	1.054				.225	.490	.801			.218	.635	1.035		
30	.089	.050	4	.221	.210	18		.142	.173	32			.165	.185	54	30	
	.088	.147	.167	.150	.331	.780		.090	.168	.679			.085	.243	.879		
25	.073		1									.073		1	25		
20	.103	.047	7				.046	.026	2		.062	.022	7	.078	.042	16	20
	.103	.157	.158				.046	.063	.070		.059	.086	.097	.046	.119	.158	
15																	15
10	.110	.018	2							.047	.017	13		.055	.028	15	10
	.110	.122	.127							.054	.059	.073		.054	.073	.118	
5																	5
0																	0
5				.036	.012	5								.036	.012	5	5
				.039	.045	.053								.039	.045	.053	
10																	10
15										.298		1		.298		1	15
20																	20
25																	25
30																	30
35																	35
40		.146	.090	56							.110	.042	3	.144	.088	59	40
		.115	.218	.374							.119	.144	.155	.116	.206	.374	
45S				.177	.022	2	.242		1					.199	.036	3	45S
				.177	.192	.198								.199	.228	.240	

15E 60E 105E 150E 165W 120W 75W 30W 15E

LONGITUDE

CODE:

MEAN	ST. DEV.	N
50%	84%	98%

MARCH
FL 470

		MEAN												LAT				
70N															70N			
65						.955	.561	8						.955	.561	8	65	
60						.997	1.346	1.950						.997	1.346	1.950	60	
55									1.178	.524	.29			1.178	.524	.29	55	
50									1.057	1.768	2.041			1.057	1.768	2.041	50	
45									.747	.348	.38	.943	.405	.66	.862	.412	.33	45
40									.706	1.022	1.643	.810	1.403	1.675	.770	1.310	1.784	40
35															.715	.376	.171	35
30															.676	1.066	1.585	30
25																		25
20																		20
15																		15
10																		10
5																		5
0																		0
5						.040	.012	5							.040	.012	5	5
10						.039	.048	.059							.039	.048	.059	10
15																		15
20																		20
25																		25
30																		30
35																		35
40																		40
45S																		45S
	15E	60E	105E	150E	165W	120W	75W	30W	15E									

LONGITUDE

CODE:	MEAN	ST. DEV.	N
	50%	84%	98%

MARCH
FL 490

		MEAN										LAT												
70N													70N											
65						1.030	.686	8					1.030	.686	8	65								
						.786	1.753	2.119					.786	1.753	2.119									
60									1.238	.566	.29		1.238	.566	.29	60								
									1.155	1.821	2.379		1.155	1.821	2.379									
55									.863	.410	.38	1.087	.467	.66	1.016	.493	.33	1.008	.468	.137	55			
									.792	1.181	1.882	1.011	1.706	1.973	1.014	1.435	2.164	.927	1.498	2.073				
50															.795	.421	.171	.795	.421	.171	50			
															.764	1.254	1.809	.764	1.254	1.809				
45				1.170	.504	.21			.692	.349	.16	.928	.340	.6	703	.314	.63	.710	.356	.141	.752	.384	.247	45
				1.020	1.804	2.199			.627	.991	1.437	.820	1.076	1.585	653	1.008	1.424	.641	1.072	1.564	.694	1.079	1.708	
40												.645	.371	.147				.715	.423	.33	.658	.382	.180	40
												.612	.990	1.577				.600	1.132	1.738	.552	.993	1.642	
35				.524	.388	.31						.445	.266	.21							.492	.352	.52	35
				.392	.928	1.381						.420	.640	1.114							.313	.847	1.322	
30				.206	.126	.4	.255	.167	.18			.198	.209	.32							.218	.193	.54	30
				.187	.330	.368	.210	.413	.665			.132	.213	.860							.136	.348	.839	
25				.071		1															.071		1	25
20				.141	.058	.7						.076	.051	.2							.109	.053	.16	20
				.144	.176	.226						.076	.111	.125							.115	.152	.215	
15																								15
10				.155	.006	.2						.053	.020	.13							.067	.039	.15	10
				.155	.158	.160						.063	.067	.079							.064	.079	.157	
5																								5
0																								0
5									.045	.014	.5										.045	.014	.5	5
									.045	.055	.066										.045	.055	.066	
10																								10
15															3.296		1				3.296		1	15
20																								20
25																								25
30																								30
35																								35
40						.235	.122	.55													.235	.120	.58	40
						.216	.375	.485							228	.062	.3				.212	.371	.484	
45S									.223	.123	.2	.220		1	186	.274	.310				.222	.102	.3	45S
									.223	.308	.343										.220	.307	.343	
	15E	60E	105E	150E	165W	120W	75W	30W	15E															

LONGITUDE

CODE:

MEAN	ST. DEV.	N
50%	84%	98%

MARCH
FL 510

	MEAN										LAT																											
70N												70N																										
65					1.307	.512	8					1.307	.512	8	65																							
60					1.347	1.896	1.930					1.347	1.896	1.930	60																							
55								1.596	.646	28				1.596	.646	28	55																					
50								1.670	2.202	2.753				1.670	2.202	2.753	50																					
45								.995	.436	37	1.273	.569	66	1.065	.526	33	1.147	.540	136	45																		
40								.901	1.506	1.820	1.206	2.041	2.363	1.071	1.448	2.524	.938	1.667	2.401	40																		
35														.896	.469	171	.837	1.344	2.027	.896	.469	171	35															
30														.837	1.344	2.027	.900	.463	246	.686	1.290	2.217	.900	.463	246	30												
25														1.449	.599	21	1.418	2.144	2.541	.759	.340	16	.839	.911	1.482	1.039	.266	6	.854	.437	63	.849	.410	140	.900	.463	246	25
20																																			20			
15																																15						
10																																10						
5																																5						
0																																0						
5																																5						
10																																10						
15																																15						
20																																20						
25																																25						
30																																30						
35																																35						
40																																40						
45S																																45S						
	15E	60E	105E	150E	165W	120W	75W	30W	15E																													

LONGITUDE

CODE:

MEAN	ST. DEV.	N
50%	84%	98%

MARCH
FL 530

	MEAN										LAT												
70N												70N											
65					1.492	.543	8					1.492	.543	8	65								
					1.456	2.070	2.180					1.456	2.070	2.180									
60								1.938	.665	27				1.938	.665	27	60						
								2.190	2.512	2.787				2.190	2.512	2.787							
55								1.183	.522	37	1.514	.567	66	1.246	.510	33	1.359	.563	136	55			
								1.080	1.691	2.293	1.410	2.160	2.701	1.230	1.707	2.576	1.168	1.902	2.812				
50														1.049	.486	171	1.049	.486	171	50			
														.980	1.486	2.233	.980	1.486	2.233				
45					1.861	.674	21	1.076	.416	16	1.289	.222	6	1.060	.477	63	1.011	.493	140	1.090	.529	246	45
					1.635	2.461	2.790	1.133	1.375	1.875	1.311	1.412	1.598	.985	1.647	2.057	.982	1.488	2.106	.839	1.614	2.476	
40											.910	.470	147				.856	.444	33	.900	.466	180	40
											.791	1.335	2.094				.711	1.191	1.861	.743	1.335	2.137	
35					.698	.446	31				.657	.309	21				.662	.397	52	.662	.397	52	35
					.587	1.008	2.051				.664	.931	1.314				.479	.986	2.019	.479	.986	2.019	
30					.314	.213	4	.457	.300	18	.295	.229	32				.350	.265	54	.350	.265	54	30
					.261	.515	610	.333	.711	1.143	.223	.376	.961				.237	.574	1.170	.237	.574	1.170	
25					.070		1										.070		1	.070		1	25
20					.183	.078	7				.099	.060	2				.152	.067	16	.152	.067	16	20
					.188	.223	.297				.099	.140	.157				.135	.175	.185	.135	.175	.185	
15																							15
10					.199	.030	2				.061	.029	13				.079	.055	15	.079	.055	15	10
					.199	.219	.227				.066	.090	.104				.069	.104	.211	.069	.104	.211	
5																							5
0																							0
5								.073	.031	5							.073	.031	5	.073	.031	5	5
					.069	.096	.123										.069	.096	.123	.069	.096	.123	
10																							10
15														.232		1				.232		1	15
20																							20
25																							25
30																							30
35																							35
40					.383	.170	56							.484	.105	3				.388	.169	59	40
					.366	.548	.708							.483	.571	.608				.366	.550	.707	
45S					.435	.061	2	.620		1										.496	.101	3	45S
					.435	.476	.494													.496	.580	.615	
	15E	60E	105E	150E	165W	120W	75W	30W	15E														

LONGITUDE

CODE: MEAN ST. DEV. N
50% 84% 98%

MARCH
FL 550

		MEAN										LAT														
70N													70N													
65					1.699	.759	8						1.699	.759	8	65										
					1.372	2.620	2.788						1.372	2.620	2.788											
60								2.187	.612	27			2.187	.612	27	60										
								2.263	2.868	3.107			2.263	2.868	3.107											
55								1.469	.538	36	1.834	.563	66	1.541	.584	33	55									
								1.384	1.899	2.698	1.800	2.399	3.008	1.370	2.064	2.875	1.665	.586	135							
50													1.306	.514	174	50										
													1.245	1.799	2.478	1.306	.514	174								
45			1.986	.678	21			1.364	.489	16	1.774	.336	6	1.234	.505	63	1.252	.528	140	45						
			2.000	2.722	3.143			1.236	1.678	2.312	1.937	2.053	2.064	1.131	1.726	2.326	1.171	1.704	2.502	1.330	.573	246				
40											1.152	.484	147				1.062	.498	33	1.136	.488	180	40			
											1.093	1.584	2.329				1.010	1.582	2.216	1.029	1.595	2.344	1.136	.488	180	
35			.868	.504	31						.833	.273	21							.854	.427	52	35			
			.712	1.096	2.447						.820	1.042	1.340							.640	1.071	2.306	.854	.427	52	
30		.390	190	4	.512	.247	18				.423	.339	32							.450	.305	54	30			
		.390	.572	.625	.470	.783	.952				.319	.631	1.272							.304	.718	.959	.450	.305	54	
25		.115		1																.115		1	.115		1	25
20		.258	112	7				.159	.083	2				154	.025	7				.200	.096	16	.200	.096	16	20
		.267	.325	.420				.159	.215	.239				.153	.168	.196				.184	.275	.400	.184	.275	.400	
15																										15
10		.346	166	2							.079	.033	13							.114	.113	15	.114	.113	15	10
		.346	.458	.504							.083	.115	.126							.090	.126	.418	.090	.126	.418	
5																										5
0																										0
5					.128	.042	5													.128	.042	5	.128	.042	5	5
					.118	.174	.182													.118	.174	.182	.118	.174	.182	
10																										10
15											.077		1							.077		1	.077		1	15
20																										20
25																										25
30																										30
35																										35
40				.513	.200	56								.728	.246	3				.524	.208	59	.524	.208	59	40
				.479	.690	.870								.556	.910	1.055				.509	.696	1.043	.509	.696	1.043	
45S					.704	.106	2	.672		1										.693	.088	3	.693	.088	3	45S
					.704	.776	.806													.672	.766	.804	.672	.766	.804	
	15E	60E	105E	150E	165W	120W	75W	30W	15E																	
	LONGITUDE																									

CODE:	MEAN	ST. DEV.	N
	50%	84%	98%

MARCH
FL 570

		MEAN												LAT		
70N																70N
65																65
60																60
55																55
50																50
45																45
40																40
35																35
30																30
25																25
20																20
15																15
10																10
5																5
0																0
5																5
10																10
15																15
20																20
25																25
30																30
35																35
40																40
45S																45S

LONGITUDE

CODE:

MEAN	ST. DEV.	N
50%	84%	98%

MARCH
FL 590

	MEAN										LAT									
70N												70N								
65					2.764	503	8					2.764	503	8	65					
60					2.961	3.173	3.344					2.823	620	27	60					
55								2.823	620	27				2.823	620	27	55			
50								2.762	3.390	4.065				2.092	469	36	50			
45								2.092	469	36	2.426	662	65	2.094	505	33	45			
40								1.960	2.634	3.047	2.330	3.047	3.963	2.104	2.582	3.111	2.255	602	134	40
35														1.884	619	174	1.884	619	174	35
30														1.864	2.518	3.332	1.864	2.518	3.332	30
25														1.827	594	140	1.827	594	140	25
20														1.744	2.510	3.197	1.744	2.510	3.197	20
15														1.668	430	33	1.668	430	33	15
10														1.552	2.050	2.264	1.552	2.050	2.264	10
5														1.483	530	31	1.483	530	31	5
0														1.366	2.005	2.661	1.366	2.005	2.661	0
5S														1.331	502	21	1.331	502	21	5S
10S														1.218	1.835	2.416	1.218	1.835	2.416	10S
15S																				15S
20S																				20S
25S																				25S
30S																				30S
35S																				35S
40S																				40S
45S																				45S
	15E	60E	105E	150E	165W	120W	75W	30W	15E											

LONGITUDE

CODE:	MEAN	ST. DEV.	N
	50%	84%	98%

APRIL
FL 190

	MEAN										LAT																								
70N												70N																							
65					.039	.016	.11					.039	.016	.11	65																				
60					.040	.054	.072					.050	.015	.33	60																				
55								.050	.015	.33				.052	.064	.072	55																		
50								.055	.022	.30	.058	.017	.61	.053	.010	.36	.057	.067	.072	.056	.017	.127	.057	.070	.089	50									
45								.059	.020	.152	.059	.073	.090	.057	.078	.101	.059	.020	.152	.057	.078	.101	.059	.020	.152	.057	.078	.101	45						
40					.060	.013	.21	.055	.021	.13	.050	.023	.13	.056	.021	.57	.052	.013	.131	.054	.017	.235	.053	.066	.086	.054	.017	.235	.053	.066	.086	40			
35					.059	.072	.089	.047	.081	.085	.046	.061	.107	.056	.074	.099	.051	.062	.086	.054	.017	.235	.053	.066	.086	.054	.017	.235	.053	.066	.086	35			
30								.057		1	.054	.018	.123	.070	.008	.2	.056	.016	.29	.054	.017	.235	.053	.066	.086	.054	.017	.235	.053	.066	.086	30			
25					.059	.014	.25	.084		1	.044	.022	.16				.054	.019	.42	.050	.072	.085	.054	.019	.42	.050	.072	.085	.054	.019	.42	.050	.072	.085	25
20					.051	.072	.083				.039	.070	.086				.048	.013	.30	.048	.062	.081	.051	.014	.68	.048	.062	.081	.051	.014	.68	.048	.062	.081	20
15					.052	.014	.19				.052	.014	.19				.057	.069	.073				.058	.013	.3	.057	.069	.073	.058	.013	.3	.057	.069	.073	15
10					.051	.062	.079				.039	.005	.9				.039	.044	.045				.045	.021	.28	.045	.021	.28	.045	.021	.28	.045	.021	.28	10
5											.061	.032	.5				.043	.019	.14				.045	.021	.28	.045	.021	.28	.045	.021	.28	.045	.021	.28	5
0											.073	.091	.093				.038	.051	.087				.025	.066	.092	.025	.066	.092	.025	.066	.092	.025	.066	.092	0
5																																			5
10											.015	.001	.3				.036	.019	.14				.033	.019	.17	.032	.053	.067	.033	.019	.17	.032	.053	.067	10
5											.015	.016	.016				.035	.056	.067				.032	.053	.067	.032	.053	.067	.032	.053	.067	.032	.053	.067	5
0																																			0
5																							.003		1	.003		1	.003		1	.003		1	5
10																																			10
15																							.020		1	.006		1	.013	.007	.2	.013	.018	.020	15
20																																			20
25																																			25
30																																			30
35																																			35
40																							.034	.010	.48	.021		1	.034	.010	.49	.031	.040	.057	40
45S											.034	.010	.48				.031	.040	.058				.031	.040	.058	.031	.040	.057	.031	.040	.057	.031	.040	.057	45S

LONGITUDE

CODE:

MEAN	ST. DEV.	N
50%	84%	98%

APRIL
FL 210

		MEAN												LAT										
70N															70N									
65						.041	.013	.11							.041	.013	.11	65						
60						.041	.056	.061							.041	.056	.061	60						
55									.055	.025	.33				.055	.025	.33	55						
50									.055	.059	.108				.055	.059	.108	50						
45									.058	.024	.30	.061	.019	.61	.060	.011	.38	45						
40	.082	1							.055	.070	.129	.064	.077	.094	.061	.071	.084	.060	.074	.098	40			
35									.140		.1				.062	.023	.161	.063	.024	.162	35			
30															.059	.079	.114	.059	.080	.115	30			
25									.062	.012	.21	.055	.018	.17	.059	.020	.57	.054	.016	.131	25			
20									.061	.077	.083	.052	.071	.092	.059	.078	.101	.052	.064	.098	.056	.018	.242	20
15									.099	.063	.5	.063	.165	.196	.056	.018	.136	.066	.037	.16	.056	.016	.29	15
10									.068	.025	.7	.063	.084	.116	.058	.074	.090	.064	.102	.137	.057	.076	.115	10
5									.068	.025	.7	.063	.084	.116	.047	.019	.27	.050	.054	.088	.057	.020	.63	5
0															.049	.018	.30	.054	.066	.079	.052	.016	.69	0
5									.055	.015	.20	.054	.069	.083							.055	.065	.069	5
10	.034	1							.056	.011	.3	.055	.065	.069							.051	.014	.4	10
15									.041	.006	.10	.043	.045	.048	.081	.002	.2	.081	.082	.083	.061	.021	.50	15
20									.040		.1				.061	.074	.088				.037	.054	.089	20
25																								25
30																								30
35																								35
40																								40
45S																								45S
	15E	60E	105E	150E	165W	120W	75W	30W	15E															
	LONGITUDE																							

CODE:	MEAN	ST. DEV.	N
	50%	84%	98%

APRIL
FL 230

		MEAN												LAT								
70N																70N						
65						.045	.017	.11							.045	.017	.11	65				
60																		60				
55										.058	.021	.33			.058	.021	.33	55				
50										.059	.079	.100			.059	.079	.100	50				
45	.045	1								.060	.024	.30	.068	.024	.61	.064	.015	.36	.065	.022	.127	45
40	.078	1								.057	.070	.131	.068	.085	.125	.063	.075	.098	.064	.027	.127	40
35										.056		1							.065	.026	.157	35
30															.060	.085	.133	.059	.085	.133	30	
25										.064	.037	.17	.063	.040	.16	.067	.033	.57	.055	.022	.131	25
20										.055	.086	.159	.056	.085	.160	.065	.087	.152	.052	.069	.115	20
15										.072	.051	.8	.059	.021	.143	.043	.032	.7	.055	.018	.29	15
10										.059	.133	.143	.057	.078	.108	.024	.065	.104	.054	.069	.101	10
5										.049	.024	.9	.050	.023	.31							5
0										.054	.067	.086	.047	.067	.106							0
5																						5
10																						10
15																						15
20																						20
25																						25
30																						30
35																						35
40																						40
45S																						45S
	15E	60E	105E	150E	165W	120W	75W	30W	15E													

LONGITUDE

CODE:

MEAN	ST. DEV.	N
50%	84%	98%

APRIL
FL 250

		MEAN												LAT				
70N															70N			
65						.052	.026	.11							.052	.026	.11	65
60						.049	.071	.104							.068	.032	.33	60
55															.063	.093	.157	55
50															.062	.024	.30	50
45															.057	.076	.131	45
40	.064	1													.079	.041	.61	40
35	.052	1													.069	.103	.205	35
30															.070	.019	.36	30
25															.068	.080	.117	25
20															.071	.033	.154	20
15															.063	.098	.166	15
10															.071	.033	.155	10
5															.063	.087	.166	5
0																		0
5																		5
10																		10
15																		15
20																		20
25																		25
30																		30
35																		35
40																		40
45S																		45S
	15E	60E	105E	150E	165W	120W	75W	30W	15E									
	LONGITUDE																	

CODE:

MEAN	ST. DEV.	N
50%	84%	98%

APRIL
FL 270

		MEAN												LAT			
70N																70N	
65						.063	.026	.11								65	
						.067	.080	.113									
60										.077	.045	.33				60	
										.065	.107	.213					
55													.099	.073	.61	55	
										.062	.082	.120	.072	.175	.311		
50													.083	.043	.36	50	
													.072	.098	.215		
45				.088	.044	.21		.093	.109	.14	.085	.096	.13	.097	.081	.57	45
				.077	.117	.205		.057	.089	.387	.057	.080	.335	.071	.143	.337	
40	.070	1						.077	.025	.5	.077	.049	.127	.143	.050	.6	40
								.076	.101	.112	.064	.101	.219	.170	.182	.189	
35				.070	.025	.30		.073		1	.075	.070	.29				35
				.064	.088	.133					.065	.085	.303				
30			.059	.017	.19	.068	.026	.19			.053	.019	.30				30
			.061	.072	.096	.062	.074	.136			.055	.073	.082				
25	.036	1		.055	.007	.3											25
				.054	.061	.065											
20			.047	.014	.9			.050	.031	.9			.040	.015	.14		20
			.044	.061	.072			.052	.077	.106			.038	.059	.061		
15			.022		1												15
10			.020	.005	.3						.049	.020	.13	.049		1	10
			.023	.024	.025						.044	.068	.066				
5			.014		1												5
0					.022	1											0
5							.003	1									5
10																	10
15													.008	1			15
20							.021	.004	.3								20
							.021	.025	.027								
25																	25
30				.037		1											30
35				.040		1	.030	1									35
40				.039	.014	.49							.020	1			40
				.037	.052	.068											
45S							.030	1									45S
	15E	60E	105E	150E	165W	120W	75W	30W	15E								
	LONGITUDE																

CODE:

MEAN	ST. DEV.	N
50%	84%	98%

APRIL
FL 290

		MEAN						LAT			
70N										70N	
65					.094 .048 .11				.094 .048 .11	65	
60					.099 .141 .180				.099 .141 .180	60	
55						.109 .077 .33			.109 .077 .33	55	
50						.077 .195 .294			.077 .195 .294	50	
45						.071 .028 .30	.122 .104 .61	.124 .094 .41	.111 .091 .132	45	
40						.070 .095 .134	.077 .206 .390	.084 .221 .348	.075 .171 .380	40	
35						.091	1	.107 .096 .6	.098 .069 .164	.098 .070 .171	35
30								.076 .147 .326	.076 .147 .326	.076 .147 .326	30
25	.120 .115 .8		.102 .064 .21		.125 .142 .21	.120 .131 .14	.116 .093 .66	.080 .055 .133	.098 .085 .263	.098 .085 .263	25
20	.051 .279 .328		.086 .116 .280		.066 .216 .513	.071 .128 .448	.081 .180 .367	.064 .105 .252	.068 .143 .344	.068 .143 .344	20
15				.043 1	.055 .020 .9	.090 .075 .141	.091 .046 .12	.091 .061 .29	.089 .070 .206	.089 .070 .206	15
10	.100 .069 .14				.063 .069 .084	.068 .111 .343	.074 .108 .204	.066 .163 .233	.067 .120 .310	.067 .120 .310	10
5	.053 .011 .5		.070 .030 .32	.014 1	.062 .035 .11	.079 .048 .22			.070 .038 .71	.065 .092 .177	5
0	.057 .083 .066		.071 .092 .134		.068 .088 .128	.068 .122 .187			.065 .092 .177	.065 .092 .177	0
45S	.041 .004 .2	.061 .020 .19	.070 .020 .19		.061 .026 .8	.058 .022 .35			.061 .022 .83	.063 .080 .102	45S
40S	.041 .044 .045	.063 .081 .101	.068 .080 .115		.070 .078 .088	.060 .060 .096			.063 .080 .102	.063 .080 .102	40S
35S					.069 .017 .8	.079 .011 .2			.064 .018 .15	.066 .085 .090	35S
30S	.034 1	.054 .008 .4			.073 .086 .091	.079 .086 .089			.066 .085 .090	.066 .085 .090	30S
25S		.048 .014 .11			.071 .037 .21		.043 .014 .14		.057 .030 .46	.057 .030 .46	25S
20S		.041 .063 .074			.075 .099 .155		.042 .059 .064		.038 .079 .143	.038 .079 .143	20S
15S		.079 .024 .2	.014 .004 .3		.034 .020 .4	.048 .007 .2		.035 .027 .11	.041 .058 .095	.041 .058 .095	15S
10S		.079 .095 .102	.014 .017 .019		.029 .053 .061	.048 .052 .054		.041 .058 .095	.041 .058 .095	.041 .058 .095	10S
5S		.024 .010 .5		.016 .002 .2	.012 .002 .2	.045 .019 .14	.061 .031 .4	.039 .024 .27	.033 .066 .092	.039 .024 .27	5S
0		.023 .031 .041		.016 .017 .017	.012 .013 .013	.047 .066 .070	.060 .093 .096	.033 .066 .092	.033 .066 .092	.033 .066 .092	0
45N		.024 .004 .2		.019 1		.045 1	.036 1	.030 .010 .5	.028 .039 .044	.030 .010 .5	45N
40N		.024 .027 .028						.028 .039 .044	.028 .039 .044	.028 .039 .044	40N
35N			.021 1					.021 1	.021 1	.021 1	35N
30N					.022 .001 .2	.003 1		.016 .009 .3	.021 .022 .023	.016 .009 .3	30N
25N					.022 .023 .023			.021 .022 .023	.021 .022 .023	.021 .022 .023	25N
20N					.022 .004 .3			.022 .025 .026	.023 .025 .026	.022 .025 .026	20N
15N					.023 .025 .026			.023 .025 .026	.023 .025 .026	.023 .025 .026	15N
10N					.027 .001 .2	.009 .001 .2	.009 1	.016 .009 .5	.010 .026 .027	.016 .009 .5	10N
5N					.027 .027 .027	.009 .010 .010		.010 .026 .027	.010 .026 .027	.010 .026 .027	5N
0					.030 .003 .3	.025 .012 .3	.031 1	.028 .008 .7	.029 .034 .040	.029 .034 .040	0
45S					.029 .032 .034	.022 .035 .040		.028 .008 .7	.029 .034 .040	.029 .034 .040	45S
40S					.040 .009 .2	.041 .013 .7		.041 .012 .9	.047 .050 .057	.041 .012 .9	40S
35S					.040 .045 .048	.047 .051 .057		.047 .050 .057	.047 .050 .057	.047 .050 .057	35S
30S					.035 1	.037 .012 .13		.037 .012 .14	.036 .047 .059	.037 .012 .14	30S
25S						.037 .047 .059		.036 .047 .059	.036 .047 .059	.036 .047 .059	25S
20S					.033 1	.063 .065 .5		.063 .065 .5	.030 .076 .177	.058 .060 .6	20S
15S						.036 .039 .179		.030 .076 .177	.030 .076 .177	.030 .076 .177	15S
10S					.041 .017 .48	.025 1		.040 .017 .58	.037 .056 .073	.040 .017 .58	10S
5S					.037 .056 .075			.037 .056 .073	.037 .056 .073	.037 .056 .073	5S
0							.020 1	.040 .017 .58	.037 .056 .073	.040 .017 .58	0
45N								.037 .056 .073	.037 .056 .073	.037 .056 .073	45N
40N								.037 .056 .073	.037 .056 .073	.037 .056 .073	40N
35N								.037 .056 .073	.037 .056 .073	.037 .056 .073	35N
30N								.037 .056 .073	.037 .056 .073	.037 .056 .073	30N
25N								.037 .056 .073	.037 .056 .073	.037 .056 .073	25N
20N								.037 .056 .073	.037 .056 .073	.037 .056 .073	20N
15N								.037 .056 .073	.037 .056 .073	.037 .056 .073	15N
10N								.037 .056 .073	.037 .056 .073	.037 .056 .073	10N
5N								.037 .056 .073	.037 .056 .073	.037 .056 .073	5N
0								.037 .056 .073	.037 .056 .073	.037 .056 .073	0
45S								.037 .056 .073	.037 .056 .073	.037 .056 .073	45S

LONGITUDE

CODE: MEAN ST. DEV. N
50% 84% 98%

APRIL
FL 310

	MEAN										LAT																	
70N														70N														
65							.190	.114	.12					.190	.114	.12	65											
60							.188	.325	.362					.188	.325	.362	60											
55							.138	.003	.3	.113				.172	.136	.33	.066	.010	.2	.163	.128	.39	55					
50							.123	.041	.4	.146	.136	.8	.098	.058	.32	.155	.116	.61	.156	.126	.46	.142	.112	.151	50			
45							.113	.158	.183	.102	.339	.367	.079	.162	.235	.095	.263	.461	.095	.304	.475	.091	.248	.466	45			
40							.099	.008	.3	.163	.135	.12	.164	.046	.2	.300		.1	.136	.101	.156	.138	.104	.174	40			
35	.056						.121	.088	.22	.092	.043	.2	.101	.123	.31	.104	.085	.24	.167	.176	.60	.104	.075	.131	35			
30	.167	.055					.090	.163	.361	.092	.120	.132	.071	.127	.485	.080	.106	.346	.090	.301	.731	.075	.160	.336	.081	.168	.494	30
25	.186	.211	.222				.026	.003	.3	.066	.070	.12	.049	.070	.241	.118	.099	.180	.095	.067	.6	.077	.216	.346	.077	.185	.397	25
20	.095	.171	.230				.084	.051	.40	.020		.1	.073	.028	.17	.083	.048	.22				.046	.112	.243	.046	.112	.243	20
15	.047	.013	.4	.070	.027	.23	.077	.031	.19	.074	.009	.5	.057	.025	.32	.057	.025	.32				.066	.027	.83	.064	.067	.135	15
10	.044	.056	.067	.068	.085	.138	.072	.087	.155	.072	.081	.089	.057	.088	.109	.050	.088	.109				.066	.027	.83	.064	.067	.135	10
5	.039	.001	.4	.058	.023	.8	.090		.1	.079	.017	.7	.084	.094	.098							.063	.024	.20	.050	.090	.107	5
0	.039	.040	.040	.050	.070	.107																					0	
5		.049	.014	.15	.054	.012	.2	.014	.000	.058	.033	.27	.051	.054	.126	.049	.018	.14	.043	.065	.082	.056	.028	.60	.044	.086	.112	5
10		.033	.014	.6	.025	.023	.6			.043	.014	.6	.051	.054	.054	.040	.001	.2				.034	.018	.20	.024	.053	.059	10
15		.030	.015	.6	.054	.009	.2	.016	.002	.020	.006	.3	.017	.017	.018	.045	.021	.14	.024	.006	.2	.034	.020	.32	.024	.027	.029	15
20		.027	.010	.4	.054	.059	.062	.017	.017	.018	.025	.028	.018	.025	.028	.043	.052	.095				.022	.013	.13	.020	.031	.051	20
25		.023	.034	.042	.053		.1	.014	.006	.015	.020	.021				.030		.1				.022	.013	.13	.020	.031	.051	25
30					.033		.1	.013	.006	.014	.019	.020				.029	.002	.2	.029	.030	.031	.018	.009	.12	.016	.028	.033	30
35					.028	.004	.4	.014	.006	.013	.021	.022				.029	.004	.3	.031	.032	.032	.022	.009	.13	.022	.031	.033	35
40					.027	.005	.4	.020	.006	.020	.006	.4				.035	.005	.2				.026	.008	.10	.026	.032	.039	40
45					.029	.032	.032	.022	.025	.022	.025	.025				.035	.038	.040				.022	.010	.10	.018	.032	.040	45
					.037	.004	.2	.015	.005	.037	.040	.021				.023	.009	.3				.022	.010	.10	.018	.032	.040	
					.035	.006	.2	.019		.019		.1				.039		.1				.032	.009	.4	.034	.040	.040	
					.032	.004	.4			.032		.4				.033	.035	.035				.032	.004	.4	.033	.035	.035	
					.035	.006	.6	.039	.011	.034	.046	.051				.036	.008	.9				.036	.008	.9	.034	.045	.050	
					.028	.011	.9	.032	.010	.028	.045	.051				.030	.011	.20				.024	.043	.052				
					.045	.028	.49	.032	.005	.045	.039	.4				.021		.1				.044	.027	.54	.038	.058	.125	
					.038	.058	.130	.032	.037	.039																		

LONGITUDE

CODE:

MEAN	ST. DEV.	N
50%	84%	98%

APRIL
FL 330

		MEAN												LAT										
70N																70N								
65								.337	.165	.11	.434		.235	.153	.8	.108	.039	.7	.251	.168	.27	65		
60								.370	.468	.595			.183	.434	.464	.104	.138	.176	.208	.451	.553	60		
55												.265	.166	.43	.305	.100	.7	.169	.116	.13	.250	.157	.63	55
50												.230	.459	.596	.267	.386	.495	.125	.291	.420	.223	.433	.591	50
45												.330	.204	.10	.140	.224	.5	.208	.154	.39	.212	.160	.70	45
40												.276	.583	.629	.025	.252	.544	.157	.395	.574	.152	.450	.582	40
35												.453	.236	.4	.022		.1	.181	.107	.7	.240	.178	.16	35
30												.535	.654	.664				.136	.303	.328	.187	.138	.161	30
25	.101	.107	.4																					25
20	.042	.168	.270																					20
15																								15
10																								10
5																								5
0																								0
5																								5
10																								10
15																								15
20																								20
25																								25
30																								30
35																								35
40																								40
45S																								45S
	15E	60E	105E	150E	165W	120W	75W	30W	15E															
	LONGITUDE																							

CODE:

MEAN	ST. DEV.	N
50%	84%	98%

APRIL
FL 370

		MEAN												LAT												
70N										.615	.087	6	.607	.066	10			.610	.075	16						
										.582	.654	.784	.597	.686	.709			.585	.688	.774						
65																										
60																										
55																										
50																										
45	.352	.046	5																							
	.340	.396	.414																							
40	.440		1																							
35	.083	.006	2																							
	.083	.087	.089																							
30	.120	.039	2																							
	.120	.147	.157																							
25																										
20																										
15																										
10																										
5																										
0																										
5																										
10																										
15																										
20																										
25																										
30																										
35																										
40																										
45S																										

LONGITUDE

CODE: MEAN ST. DEV. N
50% 84% 98%

APRIL
FL 390

		MEAN												LAT					
70N																			
65																	602	152	111
																	601	744	939
60																	585	221	167
																	624	600	959
55																	558	200	281
																	557	768	922
50																	484	209	251
																	489	683	881
45	584	1															427	248	421
																	410	666	934
40																	339	235	433
																	281	596	856
35																	236	192	146
																	126	413	738
30																	130	086	127
																	101	204	336
25	.049	1															140	095	48
																	108	216	379
20																	087	054	45
																	075	114	245
15																	046	009	5
																	049	053	059
10																	044	021	21
																	040	050	103
5																	035	010	7
																	037	045	048
0																	039	013	5
																	033	052	058
5																	047	026	6
																	034	078	084
10																	055	021	7
																	045	075	085
15																	042	019	7
																	033	064	068
20																	031	012	5
																	026	040	051
25																	026	014	6
																	020	044	045
30																	029	009	4
																	028	038	040
35																	061	052	9
																	076	113	138
40																	061	042	49
																	081	135	196
45S																			

LONGITUDE

CODE:

MPAN	ST. DEV.	N
50%	84%	98%

APRIL
FL 410

	MEAN										LAT									
70N																				
65				.418	1	.875	.273	.12				.840	.289	.13						
						.859	1.089	1.397				.776	1.068	1.392						
60				.740	.153	8			.696	.281	37		.704	.264	.45					
				.788	.871	.921			.611	1.038	1.162		.677	1.032	1.158					
55				.712	.186	33			.530	.195	37	.635	.207	68	.605	.210	.179			
				.669	.943	1.081			.560	.718	.851	.628	.821	1.046	.473	.713	1.082			
50				.753	.197	46			.716	.312	10	.367	.134	13	.568	.217	.177			
				.751	.951	1.106			.642	1.019	1.272	.334	.462	.644	.538	.764	1.117			
45	.573	.103	3			.586	.211	31	.454	.249	59	.516	.302	76	.474	.170	137			
	.608	.655	.674			.602	.760	.990	.465	.670	1.099	.467	.715	.928	.480	.627	.835			
40	.591	.063	5			.484	.248	31	.422	.228	45	.375	.226	185	.236	.119	29			
	.597	.643	.687			.528	.730	.926	.469	.544	.575	.440	.636	.907	.328	.617	.905			
35	.380	.199	8			.281	.220	40	.348	.328	10	.238	.198	21			.288	.234	.79	
	.410	.616	.631			.176	.480	.808	.224	.584	1.078	.170	.361	.749			.184	.509	.854	
30	.092	.027	6	.132	.072	.19	.159	.128	.13	.056	.13	.110	.063	.30			.131	.088	.93	
	.086	.116	.138	.107	.207	.302	.107	.260	.504			.104	.161	.265			.109	.174	.373	
25	.061		1	.091	.019	3	.072	.013	5			.156	.067	.12			.122	.065	.21	
				.099	.105	.108	.076	.085	.086			.138	.208	.299			.102	.171	.287	
20				.078	.098	11	.069	.026	7	.091	1	.108	.057	5	.074	.025	14	.079	.037	.38
				.083	.098	.154	.061	.083	.120			.105	.144	.196	.070	.099	.117	.067	.105	.177
15				.054	.009	3	.046	.010	3			.047	.018	2			.049	.013	8	
				.050	.061	.065	.043	.054	.058			.047	.059	.064			.043	.064	.066	
10				.066	.035	3	.024	.007	2	.038	1	.044	.019	14			.045	.024	20	
				.045	.093	.112	.024	.029	.031			.038	.057	.084			.038	.057	.104	
5				.017		1	.015		1								.016	.001	2	
																	.016	.017	.017	
0																				
5							.021		1								.021		1	
10																				
15							.060		1					.030		1	.045	.015	2	
																	.045	.055	.059	
20							.040	.002	2								.040	.002	2	
							.040	.041	.041								.040	.041	.041	
25							.029		1	.045	.017	2					.039	.015	3	
										.045	.056	.060					.029	.051	.060	
30							.082	.010	3	.078		1					.081	.009	4	
							.079	.090	.094								.075	.087	.094	
35							.126	.048	11								.126	.048	11	
							.122	.193	.200								.122	.193	.200	
40							.117	.050	48						.096		1	.117	.050	49
							.115	.153	.242									.113	.152	242
45S																				

15E 60E 105E 150E 165W 120W 75W 30W 15E

LONGITUDE

CODE: MEAN ST. DEV. N
50% 84% 98%

APRIL
FL 430

	MEAN									LAT	
70N										70N	
65					.954 .262 11 .884 1.237 1.305					.954 .262 11 .884 1.237 1.305	65
60						.799 .346 32 .757 1.176 1.483				.799 .346 32 .757 1.176 1.483	60
55				.527 .128 5 .503 .614 .743		.658 .206 30 .650 .877 1.053	.732 .237 61 .726 .965 1.227	.587 .217 36 .587 .797 1.051	.668 .231 132 .599 .896 1.207	55	
50				.719 .106 6 .702 .804 .892			.333 .015 2 .333 .343 .347	.636 .275 158 .596 .839 1.444	.635 .271 166 .600 .838 1.440	50	
45		.660 .204 26 .655 .843 .979	.739 .165 5 .715 .871 .992	.765 .347 13 .620 1.086 1.554	.440 .182 31 .470 .675 .719	.581 .345 61 .517 .770 1.604	.541 .188 131 .538 .723 .903	.565 .254 267 .539 .753 1.174	45		
40		.548 .149 13 .591 .673 .784		.409 .078 4 .449 .458 .463	.431 .257 139 .370 .628 0.73	.356 1	.494 .235 29 .474 .699 1.028	.448 .247 186 .367 .649 1.062	40		
35		.358 .214 30 .303 .575 .785		.260 .074 3 .233 .321 .357	.214 .173 16 .152 .326 .633			.305 .206 49 .239 .561 .764	35		
30	.131 .061 19 .119 .180 .269	.208 .160 19 .158 .359 .591		.316 .108 3 .279 .404 .456	.119 .065 30 .102 .143 .305			.155 .113 71 .119 .243 .439	30		
25	.101 .027 3 .099 .124 .135			.201 1				.126 .049 4 .118 .170 .197	25		
20	.079 .051 9 .088 .103 .181	.080 1		.033 1		.081 .038 14 .073 .110 .174		.078 .043 25 .075 .106 .193	20		
15	.083 1	.073 1						.078 .005 2 .078 .081 .083	15		
10	.077 .043 3 .049 .110 .134				.046 .020 14 .042 .063 .086			.051 .028 17 .044 .070 .122	10		
5									5		
0									0		
5			.031 1					.031 1	5		
10									10		
15						.021 1		.021 1	15		
20									20		
25			.073 1					.073 1	25		
30									30		
35			.181 .057 7 .201 .231 .234					.181 .057 7 .201 .231 .234	35		
40		.145 .070 48 .134 .198 .318				.159 1		.145 .069 49 .134 .198 .318	40		
45S									45S		
	15E	60E	105E	150E	165W	120W	75W	30W	15E		

LONGITUDE

CODE:

MEAN	ST. DEV.	N
50%	84%	98%

APRIL
FL 450

		MEAN									LAT		
70N											70N		
65					1.140	.479	.11					65	
					1.079	1.634	1.851						
60						.906	.382	.32				60	
						.865	1.358	1.526					
55						.659	.294	.30	.797	.290	.61	55	
						.649	.872	1.165	.789	1.109	1.333		
50									.734	.337	.158	50	
									.676	.972	1.644		
45			.685	.277	.21		.831	.373	.13	.689	.314	.13	45
			.678	.996	1.172		.773	1.199	1.427	.724	.919	1.206	
40									.510	.290	.134	40	
									.439	.741	1.189		
35			.408	.280	.25				.258	.193	.21	35	
			.375	.742	.991				.183	.419	.740		
30			.135	.056	.19	.240	.217	.19	.128	.062	.30	30	
			.131	.167	.255	.158	.418	.808	.116	.162	.310		
25			.113	.037	.3							25	
			.100	.143	.160								
20			.086	.062	.9		.041	1		.088	.049	.14	20
			.093	.117	.211					.076	.137	.205	
15													15
10			.091	.049	.3				.052	.022	.14	10	
			.062	.129	.156				.049	.067	.102		
5													5
0													0
5						.039	1						5
10													10
15									.015	1			15
20													20
25													25
30													30
35													35
40			.175	.093	.48				.180	1		40	
			.165	.245	.423								
45S													45S
	15E	60E	105E	150E	165W	120W	75W	30W	15E				

LONGITUDE

CODE:

MEAN	ST. DEV.	N
50%	84%	98%

APRIL
FL 470

		MEAN									LAT	
70N											70N	
65					1.340 .529 11 1.388 1.861 2.057						1.340 .529 11 1.388 1.861 2.057	65
60						.928 .413 .32 .842 1.347 1.788					.928 .413 .32 .842 1.347 1.788	60
55						.765 .277 .30 .781 1.013 1.275	.856 .345 .61 .808 1.224 1.398	.794 .284 .36 .767 1.066 1.416			.817 .316 .127 .781 1.157 1.397	55
50								.833 .394 .158 .814 1.143 2.024			.833 .394 .158 .814 1.143 2.024	50
45		.782 .929 .21 .843 1.142 1.235		.812 .365 .13 .692 1.146 1.527		.872 .361 .13 1.066 1.148 1.342	.691 .336 .57 .687 .974 1.592	.676 .300 .131 .650 .910 1.526			.707 .324 .235 .685 1.049 1.541	45
40						.590 .338 .119 .539 .830 1.457			.574 .316 .29 .547 .932 1.120		.587 .334 .148 .501 .847 1.448	40
35		.462 .300 .25 .350 .763 1.091				.245 .156 .16 .172 .423 .568					.377 .275 .41 .279 .717 .999	35
30	.158 .061 .19 .155 .234 .283		.257 .249 .19 .153 .383 .926			.147 .084 .30 .129 .200 .397					.181 .154 .68 .121 .235 .623	30
25	.128 .041 .3 .105 .159 .182										.128 .041 .3 .105 .159 .182	25
20	.100 .075 .9 .095 .148 .257			.051 1			.096 .043 .14 .086 .154 .181				.095 .058 .24 .077 .160 .234	20
15												15
10	.117 .051 .3 .110 .159 .179					.050 .021 .14 .051 .062 .094					.082 .039 .17 .053 .087 .159	10
5												5
0												0
5			.037 1								.037 1	5
10												10
15							.025 1				.025 1	15
20												20
25												25
30												30
35												35
40		.216 .136 .48 .184 .325 .581					.182 1				.215 .134 .49 .183 .324 .580	40
45S												45S
		15E	60E	105E	150E	165W	120W	75W	30W	15E		

LONGITUDE

CODE:

MEAN	ST. DEV.	N
50%	84%	98%

APRIL
FL 490

		MEAN										LAT										
70N													70N									
65						1.593	.462	.11					1.593	.462	.11	65						
						1.870	2.025	2.073					1.870	2.025	2.073							
60										1.124	.533	.33		1.124	.533	.33	60					
										1.054	1.787	2.304		1.054	1.787	2.304						
55										.906	.410	.30	.972	.405	.61	.953	.412	.36	55			
										.868	1.343	1.607	.947	1.396	1.869	.919	1.251	1.992				
50														.953	.461	.158	.953	.461	.158	50		
														.889	1.339	2.252	.889	1.339	2.252			
45				.925	.488	.21			.875	.300	.13	.937	.310	.13	.765	.335	.57	.761	.358	.131	45	
				.974	1.403	1.863			.890	1.239	1.374	.953	1.175	1.418	.732	1.019	1.556	.721	1.073	1.680		
40										.650	.374	.119				.661	.367	.29	.652	.372	.148	40
										.607	.917	1.671				.559	1.090	1.356	.542	.932	1.644	
35				.547	.335	.25				.272	.167	.16							.440	.312	.41	35
				.531	.749	1.352				.226	.481	.618							.362	.684	1.229	
30				.183	.069	.19	.290	.260	.19				.173	.124	.30				.208	.172	.68	30
				.174	.248	.335	.213	.424	.994				.136	.201	.531				.141	.320	.712	
25				.143	.045	.3													.143	.045	.3	25
				.112	.176	.202													.112	.176	.202	
20				.115	.089	.9	.060		1							.101	.036	.14	.104	.062	.24	20
				.097	.182	.305										.102	.127	.169	.087	.139	.271	
15																						15
10				.143	.058	.3				.059	.028	.14							.074	.048	.17	10
				.159	.190	.202				.061	.083	.117							.065	.104	.190	
5																						5
0																						0
5							.036		1										.036		1	5
10																						10
15													.035		1				.035		1	15
20																						20
25																						25
30																						30
35																						35
40				.229	.128	.48									.382		1	.232	.128	.49	40	
				.195	.306	.599												.196	.317	.598		
45S																						45S
	15E	60E	105E	150E	165W	120W	75W	30W	15E													
												LONGITUDE										

CODE:	MEAN	ST. DEV.	N
	50%	84%	98%

APRIL
FL 510

		MEAN										LAT	
70N													70N
65					1.743	.608	.11						65
					2.037	2.272	2.491						
60										1.334	.600	.33	60
										1.320	1.878	2.675	
55										1.089	.540	.30	55
										1.036	1.738	2.127	
50													50
										1.129	.515	.158	
										1.068	1.517	2.576	
45				1.052	.515	.21							45
				1.028	1.461	2.146				.939	.372	.13	
										.859	1.324	1.594	
40													40
										.702	.361	.119	
										.648	1.063	1.554	
35													35
										.402	.267	.16	
										.306	.733	.677	
30													30
										.208	.080	.19	
										.195	.258	.393	
25													25
										.158	.049	.3	
										.131	.196	.223	
20													20
										.137	.100	.9	
										.094	.215	.351	
15													15
10													10
										.169	.069	.3	
										.208	.220	.225	
5													5
0													0
5													5
										.050			
10													10
15													15
										.045			
20													20
25													25
30													30
35													35
40													40
										.296	.143	.48	
										.261	.450	.627	
45S													45S
										.641			
										.303	.150	.49	
										.276	.480	.641	
	15E	60E	105E	150E	165W	120W	75W	30W	15E				

LONGITUDE

CODE:

MEAN	ST. DEV.	N
50%	84%	98%

APRIL
FL 530

	MEAN										LAT							
70N											70N							
65					1.973	.436	.11					65						
					1.931	2.298	2.856											
60						1.663	.759	.33				60						
						1.536	2.372	3.468										
55						1.190	.488	.30	1.340	.427	.60	55						
						1.156	1.640	2.262	1.316	1.708	2.248							
50									1.295	.539	.158	50						
									1.212	1.759	2.853							
45			1.172	.587	.21				1.049	.448	.13	45						
			1.094	1.839	2.205				.968	1.280	2.111							
40									.782	.396	.119	40						
									.660	1.252	1.715							
35			.690	.388	.25				.527	.324	.16	35						
			.591	1.010	1.637				.494	.895	1.123							
30		.233	.093	.19							30							
		.219	.274	.459	.397	.284	.18				.263	.161	.30					
					.324	.600	1.105				.195	.328	.686					
25		.172	.056	.3										25				
		.149	.217	.245														
20		.162	.112	.9				.079		1		.149	.076	.14	20			
		.129	.253	.399								.122	.203	.334				
15															15			
10		.195	.082	.3								.081	.028	.14	10			
		.249	.254	.257								.082	.111	.126				
5															5			
0															0			
5						.098		1								5		
10																10		
15										.049		1					15	
20																	20	
25																	25	
30																	30	
35																	35	
40			.393	.185	.48						.632		1		.398	.186	.49	40
			.366	.513	.684										.370	.529	.693	
45S																		45S
	15E	60E	105E	150E	165W	120W	75W	30W	15E									
	LONGITUDE																	

CODE: MEAN ST. DEV. N
50% 84% 98%

APRIL
FL 550

		MEAN										LAT		
70N														
65						2.168 .684 .11							2.168 .684 .11	65
						1.867 2.978 3.155							1.867 2.978 3.155	
60													1.983 .690 .33	60
													1.895 2.682 3.322	
55													1.324 .455 .30	55
													1.222 1.806 2.086	
50													1.632 .464 .60	50
													1.581 2.036 2.715	
45													1.476 .402 .38	45
													1.416 1.868 2.449	
40													1.520 .560 .160	40
													1.454 1.851 3.005	
35													1.521 .485 .234	35
													1.454 1.951 3.005	
30													1.251 .460 .130	30
													1.155 1.625 2.539	
25													1.034 .373 .148	25
													1.008 1.483 1.616	
20													1.010 .384 .119	20
													1.009 1.420 2.015	
15													1.010 .384 .119	15
													1.009 1.420 2.015	
10													1.010 .384 .119	10
													1.009 1.420 2.015	
5													1.010 .384 .119	5
													1.009 1.420 2.015	
0													1.010 .384 .119	0
													1.009 1.420 2.015	
5													1.010 .384 .119	5
													1.009 1.420 2.015	
10													1.010 .384 .119	10
													1.009 1.420 2.015	
15													1.010 .384 .119	15
													1.009 1.420 2.015	
20													1.010 .384 .119	20
													1.009 1.420 2.015	
25													1.010 .384 .119	25
													1.009 1.420 2.015	
30													1.010 .384 .119	30
													1.009 1.420 2.015	
35													1.010 .384 .119	35
													1.009 1.420 2.015	
40													1.010 .384 .119	40
													1.009 1.420 2.015	
45S													1.010 .384 .119	45S
													1.009 1.420 2.015	

LONGITUDE

CODE: MEAN ST. DEV. N
50% 84% 98%

APRIL
FL 570

		MEAN									LAT	
70N												70N
65					2.390 .562 11 2.374 3.054 3.149						2.390 .562 11 2.374 3.054 3.149	65
60						2.187 .583 33 2.047 2.893 3.377					2.187 .583 33 2.047 2.893 3.377	60
55						1.715 .491 29 1.598 2.219 2.702	1.878 .599 60 1.843 2.520 3.114		1.796 .449 36 1.787 2.258 2.782		1.816 .539 125 1.795 2.397 3.102	55
50								1.763 .609 160 1.680 2.210 3.544			1.763 .609 160 1.680 2.210 3.544	50
45		1.509 .605 21 1.347 2.057 2.825		1.669 .547 13 1.411 2.221 2.647		1.455 .343 13 1.536 1.700 1.958	1.409 .541 57 1.281 1.965 2.735		1.507 .472 130 1.440 1.885 2.798		1.489 .505 234 1.259 1.934 2.787	45
40						1.219 .353 119 1.213 1.570 1.913			1.380 .401 29 1.304 1.740 2.216		1.251 .366 148 1.162 1.620 1.958	40
35			.990 .559 25 .814 1.350 2.503			.891 .382 16 .837 1.287 1.593					.952 .500 41 .814 1.327 2.445	35
30	.509 .233 19 .566 .637 1.023		.654 .535 18 .455 .216 2.038			.454 .195 30 .365 .619 .916					.523 .345 67 .450 .681 1.620	30
25	.397 .045 3 .367 .431 .457										.397 .045 3 .367 .431 .457	25
20	.445 .247 9 .396 .717 .840			.261 1			.278 .089 14 .270 .368 .414				.340 .184 24 .272 .439 .608	20
15												15
10	.264 .093 3 .313 .335 343					.156 .054 14 .154 .211 254					.175 .075 17 .167 .240 335	10
5												5
0												0
5				.190 1							.190 1	5
10												10
15							.199 1				.199 1	15
20												20
25												25
30												30
35												35
40			.802 .284 48 .768 1.066 1.398				1.100 1				.808 .285 49 .797 1.082 1.383	40
45S												45S
	15E	60E	105E	150E	165W	120W	75W	30W	15E			

LONGITUDE

CODE:

MEAN	ST. DEV.	N
50%	84%	98%

APRIL
FL 590

	MEAN										LAT		
70M												70N	
65					2.495 .391 11 2.474 2.879 3.135							2.495 .391 11 2.474 2.879 3.135	65
60						2.561 .613 33 2.332 3.237 3.836						2.561 .613 33 2.332 3.237 3.836	60
55						1.976 .332 29 1.966 2.333 2.609	2.204 .567 60 2.224 2.716 3.392	2.230 .491 36 2.101 2.621 3.236				2.159 .509 125 2.141 2.620 3.380	55
50								2.046 .640 160 1.958 2.394 3.227				2.046 .640 160 1.958 2.394 3.227	50
45			1.797 .623 21 1.878 2.389 3.129		2.066 .528 13 2.281 2.636 2.771	1.757 .497 13 1.430 2.318 2.658	1.785 .486 57 1.715 2.229 2.751	1.830 .473 130 1.799 2.207 3.054				1.825 .500 234 1.647 2.299 3.015	45
40						1.436 .333 119 1.430 1.802 2.018		1.616 .445 28 1.593 2.045 2.518				1.470 .364 147 1.456 1.821 2.220	40
35			1.206 .550 25 1.087 1.515 2.678			1.045 .292 16 1.020 1.386 1.499						1.143 .473 41 1.048 1.445 2.498	35
30		.731 .303 19 785 .934 1.285	.812 .525 18 692 1.089 2.113			664 .324 30 556 .956 1.454						.723 .388 67 667 1.000 1.925	30
25		.641 .056 3 631 .687 .711										.641 .056 3 631 .687 .711	25
20		.670 .345 9 647 .889 1.346		.451 1			413 .127 14 379 .547 675					.511 .263 24 400 .692 1.196	20
15													15
10		.363 .111 3 349 .495 .501				268 .094 14 270 .375 .422						.285 .104 17 295 .393 .481	10
5													5
0													0
5				269 1								.269 1	5
10													10
15							412 1					.412 1	15
20													20
25													25
30													30
35													35
40			1.086 .330 48 1.063 1.355 1.787				1.518 1					1.095 .333 49 1.070 1.360 1.786	40
45S													45S
	15E	60E	105E	150E	165W	120W	75W	30W	15E				

LONGITUDE

CODE:

MEAN	ST. DEV.	N
50%	84%	98%

MAY
FL 190

	MEAN										LAT													
70N																		.047	.019	12				
65																		.041	.068	.081				
60										.054	.014	35						.054	.014	35				
55										.057	.020	32	.064	.022	70	.061	.011	33	.062	.020	135			
50										.061	.072	.094	.064	.083	.116	.061	.070	.080	.062	.074	.095			
45										.060	.018	106	.052	.012	129	.057	.075	.102	.060	.018	106			
40						.074	.017	17	.041	.019	21	.074	.012	5	.056	.014	58	.052	.064	.078	.054	.016	230	
35						.075	.092	.108	.039	.060	.078	.072	.084	.094	.058	.069	.083	.052	.064	.078	.050	.069	.090	
30									.045	.035	2	.057	.019	135	.050	.011	2	.052	.073	.091	.056	.019	173	
25										.045	.069	.079	.055	.074	.098	.050	.057	.061	.052	.073	.091	.055	.074	.098
20						.078	.026	23				.036	.012	20				.103	.037	17	.071	.038	60	
15						.075	.099	.138				.035	.044	.063				.091	.142	.184	.056	.100	.173	
10												.050	.013	33										
5												.051	.063	.079							.055	.018	58	
0	.042	.013	6																		.047	.071	.092	
70S																								
65																								
60																								
55																								
50																								
45																								
40																								
35																								
30																								
25																								
20																								
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10																								
5																								
0																								
5																								
10																								
15																								
20																								
25																								
30																								
35																								
40																								
45S																								

CODE:

MEAN	ST. DEV.	N
50%	84%	98%

MAY
FL 210

		MEAN												LAT				
70N																70N		
65						.045	.020	12							.045	.020	12	65
60						.041	.063	.087							.058	.016	35	60
55									.056	.016	35				.056	.077	.090	55
50									.062	.026	32	.068	.023	70	.065	.014	33	50
45									.060	.074	.124	.068	.082	.131	.065	.075	.101	45
40												.062	.019	108	.062	.019	108	40
35						.079	.021	17	.055	.034	23	.079	.017	5	.056	.014	59	35
30						.069	.105	.118	.048	.062	.144	.070	.088	.110	.052	.067	.082	30
25									.027	.004	2	.059	.020	142	.069	.027	7	25
20									.027	.029	.030	.057	.077	.101	.067	.090	.113	20
15									.063	.020	4	.063	.089	42	.105	.038	17	15
10						.030	.004	3	.066	.083	.084	.042	.071	.280	.083	.138	.190	10
5						.045	.015	6				.052	.014	33				5
0						.050	.058	.059				.057	.066	.071				0
5															.057	.018	58	5
10															.056	.067	.103	10
15																		15
20																		20
25																		25
30																		30
35																		35
40																		40
45S																		45S
	15E	60E	105E	150E	165W	120W	75W	30W	15E									

LONGITUDE

CODE:

MEAN	ST. DEV.	N
50%	84%	98%

MAY
FL 230

		MEAN										LAT				
70N													70N			
65					.047 .016 12 .048 .064 .069							.047 .016 12 .047 .064 .069	65			
60												.065 .028 35 .061 .084 .144	60			
55												.065 .028 32 .063 .076 .131	.076 .031 70 .071 .090 .169	.069 .018 33 .067 .080 .110	.072 .028 135 .068 .086 .146	55
50												.066 .022 109 .061 .088 .117	.066 .022 109 .061 .088 .117	50		
45			.081 .026 17 .059 .108 .137		.054 .029 21 .042 .084 .116		.078 .027 5 .068 .095 .125	.060 .018 60 .061 .074 .096		.055 .015 129 .053 .069 .091		.059 .020 232 .051 .074 .115	45			
40					.063 .014 4 .062 .076 .083		.061 .020 154 .060 .079 .108	.068 .019 10 .065 .093 .094		.060 .020 34 .059 .074 .110		.061 .020 202 .057 .080 .108	40			
35			.080 .033 24 .078 .095 .161		.024 .009 3 .021 .031 .035		.050 .022 31 .045 .066 .100	.082 1		.109 .041 17 .097 .154 .190		.072 .039 76 .061 .097 .172	35			
30	.048 .018 6 .051 .061 .070		.069 .022 19 .054 .082 .121				.058 .022 34 .058 .072 .110					.061 .022 59 .059 .075 .126	30			
25							.021 1					.021 1	25			
20	.048 .015 6 .047 .066 .068		.070 1		.053 .028 9 .052 .084 .097			.058 .022 12 .052 .077 .105				.055 .023 28 .041 .076 .103	20			
15			.040 .011 6 .043 .050 .051				.036 .011 5 .039 .046 .050					.038 .011 11 .039 .050 .051	15			
10							.029 .013 16 .032 .038 .050	.010 .011 5 .006 .015 .029				.025 .015 21 .026 .037 .050	10			
5	.010 1											.010 1	5			
0	.032 .011 4 .030 .042 .048											.032 .011 4 .030 .042 .048	0			
5				.013 .004 3 .013 .016 .018								.013 .004 3 .013 .016 .018	5			
10													10			
15					.068 1			.641 1				.355 .287 2 .355 .549 .630	15			
20								.017 .013 4 .011 .027 .038				.017 .013 4 .011 .027 .038	20			
25								.012 .009 3 .014 .019 .021				.012 .009 3 .014 .019 .021	25			
30													30			
35			.021 1	.040 1								.031 .009 2 .031 .037 .040	35			
40			.034 .010 54 .034 .042 .053					.021 1				.034 .010 55 .034 .042 .053	40			
45S													45S			
	15E	60E	105E	150E	165W	120W	75W	30W	15E							
	LONGITUDE															

CODE: MEAN ST. DEV. N
50% 84% 98%

MAY
FL 250

	MEAN										LAT	
70N											70N	
65					.056 .019 12 .060 .067 .088						.056 .019 12 .060 .067 .088	65
60						.073 .037 35 .064 .095 .171					.073 .037 35 .064 .095 .171	60
55						.066 .031 32 .064 .083 .155	.090 .046 70 .078 .109 .219		.076 .037 33 .070 .086 .182		.081 .042 135 .071 .097 .218	55
50									.070 .025 109 .064 .094 .132		.070 .025 109 .064 .094 .132	50
45		.093 .044 17 .072 .155 .180			.062 .025 22 .058 .094 .103	.075 .040 7 .076 .083 .142	.063 .017 58 .063 .080 .090		.060 .025 130 .056 .077 .110		.064 .027 234 .053 .080 .149	45
40					.047 .013 5 .054 .058 .060	.065 .026 140 .061 .063 .139		.064 .023 34 .062 .057 .116		.064 .023 179 .061 .064 .138	40	
35			.079 .026 24 .078 .099 .136		.045 .023 5 .056 .064 .067	.052 .026 29 .049 .068 .120	.067 1	127 .055 17 108 .209 .231		.077 .045 76 .065 .106 .223	35	
30	.052 .022 6 .054 .067 .083	.071 .020 19 .073 .095 .102				.057 .016 33 .059 .075 .082				.061 .019 58 .057 .078 .101	30	
25												25
20	.048 .015 6 .046 .064 .069	.074 1			.037 1		.056 .023 12 .047 .081 .104			.053 .021 20 .042 .074 .102	20	
15		.060 1					.037 .005 2 .037 .040 .041			.044 .012 3 .041 .054 .059	15	
10							.034 .010 15 .029 .045 .050			.034 .010 15 .029 .045 .050	10	
5	.014 1									.014 1	5	
0	.032 .014 4 .031 .043 .051									.032 .014 4 .031 .043 .051	0	
5			.013 .004 3 .011 .016 .019							.013 .004 3 .011 .016 .019	5	
10											10	
15			.045 1	0.000 1			.477 1			.174 .215 3 .045 .339 .460	15	
20											20	
25							.014 .009 3 .012 .022 .025			.014 .009 3 .012 .022 .025	25	
30											30	
35			.044 1							.044 1	35	
40		.035 .011 54 .035 .044 .061					.023 1			.035 .011 55 .034 .043 .061	40	
45S											45S	
	15E	60E	105E	150E	165W	120W	75W	30W	15E			
	LONGITUDE											

CODE:

MEAN	ST. DEV.	N
50%	84%	98%

MAY
FL 270

	MEAN												LAT								
70N																	70N				
65					.084	.046	12									.084	.046	12	65		
					.067	.149	.166									.067	.149	.166			
60								.096	.062	35						.096	.062	35	60		
								.072	.141	.282						.072	.141	.282			
55								.076	.041	32	.106	.064	70	.091	.069	34	.095	.062	136	55	
								.069	.098	.179	.082	.155	.299	.075	.100	.352	.071	.140	.311		
50					.180		1							.075	.033	109	.076	.035	110	50	
														.066	.103	.158	.067	.105	.176		
45			.112	.075	17			.080	.048	21	.067	.030	59	.067	.050	129	.072	.049	232	45	
			.078	.207	.278			.062	.117	.190	.083	.114	.177	.065	.085	.102	.055	.089	.208		
40							.051	.010	2	.071	.036	140		.071	.028	34	.071	.035	177	40	
							.051	.057	.060	.063	.094	.188	.014		1	.066	.108	.130	.063	.095	.177
35			.082	.020	26		.070	.045	3	.052	.024	26		.185	.105	17	.095	.075	72	35	
			.082	.106	.112		.039	.104	.130	.051	.078	.107		.149	.275	.409	.072	.123	.336		
30	.054	.025	7	.073	.024	19				.058	.021	34					.052	.024	60	30	
	.054	.066	.096	.070	.098	.115				.057	.073	.115					.055	.085	.117		
25																					25
20	.045	.019	7				.058	.023	6				.051	.019	12		.051	.021	25	20	
	.038	.067	.077				.064	.076	.088				.047	.071	.087		.048	.073	.089		
15	.035		1	.023	.008	2				.022	.014	2					.025	.011	5	15	
				.023	.028	.030				.022	.031	.034					.030	.035	.035		
10										.032	.006	16	.028		1		.032	.006	17	10	
										.031	.039	.044					.031	.038	.043		
5	.025	.008	2														.025	.008	2	5	
	.025	.030	.033														.025	.030	.033		
0	.039	.011	3														.039	.011	3	0	
	.033	.048	.054														.033	.048	.054		
5				.012	.005	3											.012	.005	3	5	
				.009	.016	.019											.009	.016	.019		
10																					10
15							.003		1				.310		1		.157	.154	2	15	
																	.157	.261	.304		
20				.038		1							.019		1		.029	.010	2	20	
																	.029	.035	.038		
25													.025		1		.025		1	25	
30																					30
35				.033		1											.033		1	35	
40				.038	.016	55							.026		1		.037	.016	56	40	
				.034	.048	.082											.034	.045	.082		
45S																					45S

LONGITUDE

CODE:	MEAN	ST. DEV.	N
	50%	84%	98%

MAY
FL 330

		MEAN												LAT											
70N																70N									
65								.309	.256	12							65								
								.218	.606	663															
60											.261	.176	35				60								
											.243	.481	580												
55								.310	.184	3	.191	.153	34	.247	.187	89	.237	.188	53	.234	.183	179	.234	.183	179
								.435	.441	444	.124	.365	538	.172	.509	595	.147	.499	588	.152	.488	588	.152	.488	588
50								.083	.086	7	.473	.058	3	.060	.025	15	.119	.088	133	.119	.088	133	.084	.187	417
								.028	.204	227	.447	.520	550	.053	.080	113	.090	.179	393	.090	.179	393	.084	.187	417
45	.061	.021	2					.228	.186	17	.045	.029	4	.185	.175	33	.121	.119	102	.139	.131	129	.144	.143	300
	.061	.075	.081					.137	.469	556	.031	.065	090	.100	.392	540	.077	.166	464	.088	.253	464	.070	.264	527
40	.103	.038	12					.160	.108	18	.132	.155	14	.112	.094	163	.089	.082	15	.107	.077	34	.114	.096	256
	.096	.146	165					.126	.230	409	.046	.337	470	.077	.168	477	.071	.133	301	.075	.203	289	.078	.170	446
35	.067	.041	7					.089	.036	31	.069	.053	10	.079	.073	43	.085	.060	34	.078	.015	3	.347	.177	17
	.056	.118	128					.087	.132	167	.071	.100	176	.061	.093	336	.067	.125	254	.079	.091	095	.281	.568	641
30	.050	.015	2	.062	.028	14	.074	.034	25				.067	.031	31	.072	.035	50	.048	.016	2	.069	.033	124	
	.050	.060	064	.060	.078	118	.070	.109	143				.056	.099	119	.072	.101	129	.048	.059	063	.056	.100	129	
25				.095		1	.069	.010	7	.056	.002	4	.080	.100	30	.066	.030	9	.032		1	.074	.078	52	
				.068	.075	088	.055	.058	059	.055	.058	059	.059	.091	346	.053	.098	121				.059	.090	182	
20				.081	.037	7	.075		1	.055	.026	9	.058	.029	15	.058	.043	5	.062	.023	15	.062	.031	52	
				.073	.132	139	.052	.080	104	.052	.080	104	.051	.077	121	.028	.095	131	.054	.081	109	.053	.087	136	
15							.034	.015	11	.038	.016	11				.032	.014	4	.032	.008	4	.035	.015	30	
							.032	.047	062	.032	.054	069				.029	.043	053	.033	.040	040	.024	.050	068	
10		.014														.039	.016	15	.036	.017	5	.037	.016	21	
																.036	.047	077	.035	.048	065	.035	.047	076	
5				.018	.003	4				.033		1				.014		1	.026	.002	2	.021	.006	8	
				.018	.021	021													.026	.027	027	.018	.027	032	
0				.052	.032	5													.028		1	.031	.078	103	
				.037	.084	103																			
5				.036		1				.012	.005	3										.018	.011	4	
										.011	.016	019										.015	.028	035	
10				.029	.003	2													.021		1	.026	.004	3	
				.029	.031	032																.026	.030	032	
15				.038	.015	2	.038	.007	2	.033	.004	2	.028	.011	2				.051		1	.036	.011	9	
				.038	.047	051	.038	.042	044	.033	.035	036	.028	.035	039							.036	.049	052	
20				.042	.008	2	.031	.008	3	.030	.018	4							.014	.007	5	.026	.015	14	
				.042	.047	050	.028	.038	041	.021	.042	058							.013	.019	026	.021	.041	057	
25							.028	.001	2	.037	.009	10										.035	.009	12	
							.028	.028	028	.038	.045	049										.036	.044	049	
30							.022	0.000	2	.052	.030	14										.048	.029	16	
							.022	.022	022	.043	.079	120										.039	.077	119	
35							.042	.017	2	.036	.026	10										.037	.025	12	
							.042	.053	057	.031	.046	095										.031	.052	095	
40							.057	.043	54										.163		1	.058	.045	55	
							.045	.069	228													.045	.071	228	
45S																									

15E 60E 105E 150E 165W 120W 75W 30W 15E

LONGITUDE

CODE:

MEAN	ST. DEV.	N
50%	84%	98%

MAY
FL 350

		MEAN												LAT											
70N														.610	.040	4	.610	.040	4						
														.612	.648	.656	.612	.648	.656						
65														.619	.015	2	.425	.270	19						
														.619	.629	.633	.590	.648	.784						
60														.595	.088	3	.431	.203	54						
														.617	.667	.688	.477	.631	.739						
55														.256	.199	73	.292	.206	241						
														.186	.550	.669	.246	.557	.701						
50														.192	.139	145	.192	.153	230						
														.142	.334	.548	.121	.338	.592						
45	.035	.020	7		.305	.227	17	.122	.124	5	.288	.234	43	.172	.195	19	.187	.175	91	.201	.160	136			
	.040	.043	.070		.192	.598	.663	.062	.206	.339	.188	.603	.698	.109	.392	.646	.109	.392	.646	.142	.372	.605			
40	.071	.063	14		.303	.101	2	.192	.113	6	.104	.068	22	.149	.130	220	.117	.098	4	.146	.116	35			
	.047	.125	.224		.303	.372	.400	.161	.318	.367	.083	.144	.293	.097	.250	.557	.077	.187	.272	.091	.298	.418			
35	.058	.049	5		.117	.072	25	.049	.036	4	.079	.052	64	.115	.076	37	.119	.016	3	.451	.167	17			
	.036	.092	.144		.095	.171	.301	.033	.085	.085	.061	.121	.233	.087	.174	.337	.122	.132	.136	.391	.656	.752			
30	.065	.049	7	.056	.043	15	.087	.048	19	.038	.031	4	.076	.041	78	.082	.061	36				.075	.048	159	
	.047	.122	.142	.043	.099	.145	.077	.120	.203	.033	.066	.081	.074	.102	.183	.080	.095	.240				.072	.105	.210	
25		.010	.005	3				.059	.023	20	.069	.031	68	.036	.005	4	.030		1				.063	.030	96
		.011	.014	.016				.057	.082	.101	.070	.098	.124	.036	.040	.042							.059	.091	.123
20		.070	.048	7	.058	.008	4	.052	.020	22	.070	.034	27	.044	.012	3	.062	.026	13				.062	.031	76
		.055	.092	.161	.061	.065	.065	.052	.064	.094	.064	.106	.129	.036	.053	.060	.055	.084	.115				.047	.093	.129
15		.045	.009	2	.059	.029	15	.039	.024	10	.035	.024	7	.023	.013	8	.028	.001	3				.042	.027	45
		.045	.051	.054	.052	.071	.130	.035	.065	.082	.026	.035	.085	.020	.038	.043	.028	.029	.030				.033	.055	.114
10		.026	.008	3	.026	.002	2	.015		1	.027	.009	11	.039	.025	19	.027	.020	5				.032	.020	41
		.031	.032	.032	.026	.027	.028				.025	.034	.043	.032	.057	.099	.020	.038	.063				.028	.043	.096
5		.019	.002	3	.017	.001	2	.019	.003	2	.029	.015	7				.010	.010	2				.022	.013	16
		.018	.021	.022	.017	.018	.018	.019	.020	.021	.025	.037	.056				.010	.016	.019				.010	.032	.052
0		.040	.032	6	.013	.001	2	.027	.012	8	.035	.001	2				.014	.002	2				.029	.021	20
		.029	.055	.100	.013	.014	.014	.030	.040	.045	.035	.036	.036				.014	.015	.015				.021	.041	.083
5		.028	.006	4	.021	.005	4	.022	.012	9	.043		1				.020	.007	5				.023	.010	23
		.030	.032	.034	.019	.025	.028	.019	.036	.039							.021	.026	.030				.021	.033	.041
10		.024	.004	2	.027	.003	5	.028	.014	7	.042	.008	2				.021	.010	7				.027	.012	23
		.024	.026	.027	.026	.031	.032	.030	.038	.050	.042	.047	.050				.019	.030	.038				.027	.033	.051
15		.025	0.000	2	.031	.007	5	.025	.013	7	.046		1				.020	.012	6				.026	.012	21
		.025	.025	.025	.027	.039	.041	.022	.041	.042							.019	.025	.041				.025	.041	.045
20		.035	.005	2	.040	.004	3	.032	.023	8							.012	.009	4				.029	.019	17
		.035	.038	.040	.037	.042	.045	.023	.059	.075							.011	.020	.024				.027	.042	.073
25					.033	.007	4	.035	.020	11													.034	.017	15
					.031	.039	.043	.032	.052	.077													.032	.044	.075
30					.029	.005	2	.039	.019	10													.037	.018	12
					.029	.032	.033	.030	.060	.077													.030	.053	.076
35					.039	.011	3	.135	.100	4							.053		1				.089	.085	8
					.034	.048	.054	.117	.230	.272													.064	.162	.264
40					.073	.054	54										.256		1				.077	.059	55
					.056	.116	.240																.059	.124	.255
45S																									

15E 60E 105E 150E 165W 120W 75W 30W 15E

LONGITUDE

CODE: MEAN ST. DEV. N
50% 84% 98%

MAY
FL 370

																					MEAN	LAT
70N																						70N
65											.532 .291 13	.657 .022 4	.445 .108 5	.583 .082 5	.544 .220 27	65						
											.514 .856 .922	.659 .673 .684	.385 .573 .582	.637 .651 .668	.568 .690 .921							
60											.617 .109 10	.514 .236 40	.365 .294 13	.618 .095 10	.514 .195 106	60						
											.637 .721 .742	.593 .714 .874	.394 .624 .675	.619 .635 .679	.439 .662 .795							
55											.378 .269 27	.473 .268 17	.380 .214 44	.394 .203 99	.271 .180 64	55						
											.421 .638 .736	.604 .693 .818	.430 .631 .702	.360 .579 .698	.249 .450 .686							
50											.390 .294 12	.464 .244 9	.442 .201 7	.232 .125 49	.285 .161 163	50						
											.381 .673 .829	.605 .656 .724	.583 .605 .646	.225 .353 .516	.261 .466 .632							
45	.211 .173 5					.372 .221 17	.292 .290 16	.413 .266 34	.300 .234 20	.235 .193 86	.269 .166 140	.283 .209 318	45									
	.170 .390 .463					.350 .611 .732	.092 .724 .807	.367 .711 .880	.207 .591 .800	.175 .406 .752	.234 .453 .576	.149 .496 .778										
40	.182 .123 10					.076 .019 6	.194 .212 26	.123 .131 26	.193 .165 285	.347 .203 11	.203 .170 34	.192 .169 398	40									
	.159 .256 .442					.078 .097 .101	.092 .240 .758	.070 .187 .489	.122 .366 .616	.292 .560 .652	.121 .385 .658	.116 .366 .654										
35	.089 .024 7					.125 .089 44	.117 .019 3	.119 .092 74	.129 .092 53	.054 .012 2	.552 .134 17	.158 .152 200	35									
	.096 .108 .119					.096 .178 .360	.117 .133 .139	.089 .171 .364	.104 .201 .352	.054 .062 .066	.490 .702 .814	.092 .272 .653										
30	.041 .016 6	.073 .075 12			.104 .060 26	.072 .033 9	.094 .082 109	.094 .072 40					.091 .075 202	30								
	.042 .050 .068	.048 .098 .260			.093 .165 .232	.067 .110 .120	.071 .110 .360	.085 .121 .245					.072 .120 .355									
25	.078 1	.062 .022 7	.087 .039 6	.049 .041 4	.069 .027 89	.032 .023 10	.071 1					.065 .030 118	25									
		.048 .090 .099	.072 .110 .160	.038 .086 .108	.065 .097 .127	.026 .046 .081						.060 .095 .134										
20		.077 .042 13	.057 .022 5	.066 .035 9	.064 .032 27	.038 .032 14	.072 .031 14					.063 .036 82	20									
		.068 .083 .184	.062 .078 .082	.057 .097 .124	.058 .089 .132	.033 .063 .113	.065 .095 .140					.057 .089 .144										
15		.065 .004 5	.043 .020 6	.074 .030 2	.050 .033 10	.033 .016 16	.063 .026 2					.046 .026 41	15									
		.065 .068 .071	.038 .069 .069	.074 .094 .103	.030 .089 .096	.032 .050 .056	.063 .080 .087					.042 .070 .099										
10					.043 .024 12	.043 .019 20	.032 .020 7					.041 .022 39	10									
					.035 .059 .093	.043 .053 .089	.043 .050 .054					.043 .053 .095										
5	.024 1				.035 .020 15	.013 1	.021 .015 10					.028 .019 27	5									
					.030 .035 .088		.020 .033 .049					.027 .035 .078										
0	.068 .023 3			.028 .004 3	.031 .005 14			.013 .009 12					.028 .018 32	0								
	.065 .087 .096			.028 .031 .032	.031 .035 .041			.016 .022 .027					.027 .035 .077									
5				.024 .012 7	.039 .011 9			.016 .009 11					.026 .014 27	5								
				.027 .034 .042	.035 .047 .061			.015 .024 .031					.026 .040 .056									
10				.038 .018 12	.029 .028 5			.019 .011 10					.029 .020 27	10								
				.036 .059 .066	.028 .053 .072			.018 .026 .038					.025 .047 .071									
15				.034 .015 12	.016 .011 3			.021 .010 12					.026 .015 27	15								
				.028 .052 .066	.023 .024 .024			.019 .035 .038					.024 .037 .063									
20				.037 .018 9	.026 .060 .068			.029 .011 12					.029 .016 21	20								
				.026 .060 .068				.026 .032 .039					.026 .039 .067									
25			.023 1	.033 .006 3	.029 .037 .041			.040 0.000 2					.034 .007 6	25								
				.029 .037 .041				.040 .040 .040					.035 .040 .041									
30			.025 .003 2	.048 .016 3	.049 .061 .066			.037 .011 2					.038 .015 7	30								
			.025 .027 .028	.048 .061 .066				.037 .044 .047					.029 .050 .065									
35			.047 .040 7	.084 .042 5	.076 .130 .131							.063 .045 12	35									
			.028 .057 .130	.084 .042 5								.038 .130 .139										
40			.102 .064 55					.227 1					.104 .066 56	40								
			.085 .155 .287										.085 .159 .286									
45S																						45S

LONGITUDE

CODE:

MEAN	ST. DEV.	N
50%	84%	98%

MAY
FL 390

													MEAN			LAT								
70N								.718 .721	.034 .751	4 .754						70N								
65				.560	1	.651 .683	.196 .833	22 .973	.625 .621	.027 .646	7 .665	.601 .640	.115 .725	19 .751	.502	1	65							
60				.664 .649	.111 .785	.18 .851	.596 .621	.140 .696	.28 .768	.622 .647	.211 .805	.46 .983	.412 .418	.054 .457	.4 .479	.534 .523	.059 .583	.3 .607	.611 .633	.176 .770	.99 .903			
55				.658 .654	.089 .747	.32 .806	.494 .503	.224 .704	.6 .764	.471 .512	.206 .642	.35 .806	.511 .514	.191 .690	.93 .932	.472 .511	.186 .648	.47 .741	.517 .541	.192 .687	.213 .872			
50				.498 .551	.171 .662	.24 .732	.356 .356	.014 .366	.2 .369	.626	1	.350 .345	.158 .521	.30 .599	.414 .419	.170 .604	.121 .740	.415 .404	.173 .608	.178 .737				
45	.115 .058	.095 .187	.3 .238	.438 .497	.231 .685	.21 .783	.343 .323	.227 .560	.46 .711	.476 .512	.249 .707	.55 .851	.365 .346	.229 .647	.53 .797	.289 .209	.242 .551	.91 .860	.361 .351	.185 .556	.135 .770	.361 .214	.229 .469	.404 .844
40				.133 .086	.142 .290	.12 .446	.169 .071	.154 .323	.17 .530	.243 .137	.231 .524	.12 .717	.253 .192	.184 .493	.235 .657	.118 .069	.154 .092	.9 .477	.272 .202	.209 .455	.34 .816	.243 .175	.189 .469	.308 .692
35				.172 .125	.131 .317	.28 .308	.073 .074	.018 .089	.6 .098	.144 .102	.101 .218	.19 .406	.174 .133	.113 .274	.59 .531	.210	1	.673 .623	.130 .801	.17 .943	.230 .122	.208 .483	.130 .800	
30	.124 .080	.136 .167	.6 .389	.099 .101	.047 .146	.20 .190	.059 .060	.018 .083	.3 .093	.127 .091	.119 .161	.46 .527	.125 .093	.099 .179	.52 .475	.059 .059	.038 .085	.2 .095	.119 .092	.102 .166	.129 .492			
25				.062 .062	.031 .083	.2 .092		.090 .080	.059 .142	.32 .231		.039 .035	.025 .056	.12 .087	.020 .020	.012 .028	.2 .032		.073 .061	.056 .104	.48 .210			
20	.100 .070	.072 .138	.6 .237	.041 .030	.031 .051	.6 .102	.052	1	.063 .040	.039 .102	.12 .141	.031 .027	.022 .050	.11 .076	.064 .058	.043 .089	.15 .170		.058 .047	.046 .098	.51 .189			
15				.034 .040	.013 .045	.3 .047	.043 .043	.005 .046	.2 .048	.035 .031	.012 .034	.8 .062	.023 .025	.007 .029	.4 .031	.066 .055	.026 .087	.3 .097		.038 .032	.019 .048	.26 .086		
10									.034 .034	.007 .040	.8 .045	.062 .043	.064 .077	.15 .234	.036 .022	.027 .066	.7 .086		.048 .024	.049 .038	.30 .055	.174		
5	.028 .028	.003 .029	.2 .030				.045	1	.026 .027	.011 .035	.12 .041			.020 .007	.020 .042	.9 .059		.024 .024	.013 .038	.24 .055				
0	.074 .087	.020 .088	.3 .089				.033 .033	.014 .042	.2 .045	.034 .031	.011 .040	.10 .058		.013 .009	.010 .024	.10 .032		.030 .025	.022 .045	.25 .088				
5				.026 .019	.021 .042	.4 .060	.036 .031	.015 .048	.14 .073			.018 .013	.014 .035	.9 .042				.029 .026	.018 .043	.27 .070				
10				.041 .036	.011 .045	.13 .065	.032 .028	.008 .039	.9 .043			.027 .024	.013 .041	.6 .047				.035 .031	.012 .044	.28 .063				
15				.042 .039	.017 .056	.14 .069	.038 .038	.011 .045	.2 .048			.030 .022	.017 .050	.6 .055				.038 .035	.017 .035	.22 .066				
20				.043 .048	.015 .055	.12 .063	.044 .041	.004 .046	.3 .049			.014 .016	.006 .018	.3 .019				.038 .034	.016 .054	.18 .062				
25				.055 .047	.042 .086	.15 .158	.057	1										.056 .049	.041 .083	.16 .157				
30				.078 .058	.069 .113	.19 .268												.078 .058	.069 .113	.19 .268				
35				.125 .095	.092 .217	.32 .391												.125 .095	.092 .217	.32 .391				
40				.139 .119	.086 .224	.54 .363									.201	1		.140 .122	.085 .223	.55 .362				
45S																								

LONGITUDE

CODE:

MEAN	ST. DEV.	N
50%	84%	98%

MAY
FL 410

		MEAN											LAT						
70N														70N					
65						.718	.213	.12				.577	1	.707	.208	.13	65		
						.698	.894	1.081						.692	.875	1.079			
60						.578	.102	.3	.685	.226	.39	.679	.050	.11	.698	.158	.11	60	
						.531	.660	.712	.745	.889	.996	.699	.719	.759	.728	.828	.919		
55						.643	.090	.9	.571	.205	.43	.622	.237	.78	.557	.170	.45	55	
						.645	.705	.762	.632	.742	.949	.588	.863	1.159	.575	.727	.847		
50						.622	.221	.25	.686	.209	.8	.514	.075	.6	.501	.166	.118	50	
						.618	.796	1.052	.683	.952	.977	.500	.580	.631	.508	.642	.830		
45		.540	.208	.21	.518	.202	.25	.528	.266	.51	.412	.173	.26	.420	.270	.67	45		
		.529	.734	.899	.557	.662	.780	.564	.852	1.003	.409	.596	.717	.425	.630	1.134			
40	.330	.033	.3	.394	.207	.19	.065	.012	.2	.356	.205	.19	.326	.196	.172	.328	.083	.2	40
	.307	.355	.374	.467	.581	.701	.065	.072	.076	.323	.604	.711	.284	.534	.777	.327	.510	.776	
35	.234	.070	.4	.237	.156	.33				.393	.269	.8	.246	.170	.46	.173	.049	.3	35
	.229	.295	.330	.203	.389	.579				.336	.690	.813	.187	.504	.600	.197	.211	.217	
30	.212	.076	.3	.133	.081	.26				.199	.153	.19	.166	.143	.37	.106	.005	.2	30
	.252	.267	.269	.112	.192	.338				.139	.385	.528	.115	.271	.531	.106	.109	.110	
25				.086	.017	.6				.128	.077	.15				.088	.011	.2	25
				.080	.099	.116				.110	.179	.316				.088	.095	.099	
20			.111	.085	.6	.068	.010	.5	.065	.037	.11					.080	.051	.14	20
			.076	.154	.274	.063	.080	.082	.042	.106	.130					.071	.088	.211	
15				.052	.013	.5			.048	.028	.12					.100		1	15
				.047	.061	.076			.036	.078	.104								
10				.036	.011	.4			.033	.019	.12		.079	.122	.15				10
				.034	.046	.050			.032	.043	.073		.046	.072	.409				
5		.028	1	.039	.010	.2			.029	.016	.11								5
				.039	.043	.048			.029	.047	.053								
0		.069	.017	.3	.035	.010	.7	.043	.008	.4									0
		.069	.083	.088	.034	.040	.052	.040	.049	.054									
5					.029	.009	.10												5
					.028	.038	.044												
10					.036	.009	.8												10
					.033	.041	.056												
15					.034	.009	.3	.027	.003	.6		.083	1			.035	.017	.10	15
					.030	.042	.046	.028	.029	.032						.028	.040	.077	
20					.018	.005	.2									.018	.005	.2	20
					.018	.021	.023									.018	.021	.023	
25					.027	.008	.2					.049	.024	.2	.038	.021	.4	25	
					.027	.032	.035					.049	.064	.071	.027	.054	.070		
30					.115	.043	.2					.084	.006	.2	.099	.034	.4	30	
					.115	.143	.155					.084	.088	.090	.081	.125	.153		
35					.162	.061	.19									.162	.061	.19	35
					.151	.251	.270									.151	.251	.270	
40					.174	.104	.54					.267	1			.176	.104	.55	40
					.139	.260	.459									.140	.277	.457	
45S																			45S

15E

60E

105E

150E

165W

120W

75W

30W

15E

LONGITUDE

CODE:

MEAN	ST. DEV.	N
50%	84%	98%

MAY
FL 430

		MEAN												LAT	
70N															70N
65															65
60															60
55															55
50															50
45															45
40															40
35															35
30															30
25															25
20															20
15															15
10															10
5															5
0															0
5															5
10															10
15															15
20															20
25															25
30															30
35															35
40															40
45S															45S

LONGITUDE

CODE:

MEAN	ST. DEV.	N
50%	84%	98%

MAY
FL 450

		MEAN										LAT								
70N													70N							
65					.775	.235	12						.775	.235	12	65				
					.717	.998	1.190						.717	.998	1.190					
60						.826	.291	35					.826	.291	35	60				
						.920	1.115	1.276					.920	1.115	1.276					
55						.664	.218	32	.753	.299	89	.656	.187	33	.708	.261	134	55		
						.708	.834	1.110	.760	.968	1.431	.623	.853	1.007	.697	.863	1.362			
50												.629	.245	110	.629	.245	110	50		
												.622	.834	1.300	.622	.834	1.300			
45		.570	.181	16	.815	.282	21	.624	.309	5	.515	.256	58	.540	.192	128	.563	.237	228	45
		.526	.733	.946	.852	1.062	1.234	.585	.822	1.151	.461	.784	1.098	.545	.734	.988	.493	.785	1.145	
40						.422	.203	133				.404	.195	34	.418	.202	167		40	
						.403	.586	.901				.400	.619	.728	.402	.593	.876			
35			.321	.171	23	.293	.249	19				.857	.083	17	.466	.309	59		35	
			.243	.522	.638	.168	.472	.925				.835	.933	1.034	.413	.834	1.039			
30	.102	.084	6	.161	.097	18	.193	.100	39						.173	.101	57		30	
	.084	.134	.258	.138	.253	.392	.146	.301	.391						.134	.282	.394			
25																				25
20	.137	.108	6								.101	.039	12		.113	.072	18		20	
	.091	.189	.347								.081	.151	.172		.077	.151	.304			
15																				15
10								.116	.239	15					.116	.239	15		10	
								.054	.086	.750					.054	.086	.750			
5	.112		1												.112		1		5	
0	.126	.069	3												.126	.069	3		0	
	.105	.183	.215												.105	.183	.215			
5				.039	.009	3									.039	.009	3		5	
				.040	.046	.049									.040	.046	.049			
10																				10
15									.068		1				.068		1		15	
20																				20
25																				25
30																				30
35																				35
40			.251	.155	54						.335		1		.252	.154	55		40	
			.200	.410	.642										.202	.408	.642			
45S																				45S
	15E	60E	105E	150E	165W	120W	75W	30W	15E											

LONGITUDE

CODE:

MEAN	ST. DEV.	N
50%	84%	98%

MAY
FL 470

		MEAN										LAT													
70N													70N												
65					1.105	.285	12						1.105	.285	12	65									
					1.138	1.369	1.496						1.138	1.369	1.496										
60								947	.412	35			947	.412	35	60									
								990	1.307	1.796			990	1.307	1.796										
55								668	.263	32	786	.351	69	668	.232	33	55								
								706	.847	1.307	.748	1.114	1.588	.662	.913	1.140	.729	.311	134						
50													.662	.320	110	.662	.320	110	50						
													.633	.863	1.656	.633	.863	1.656							
45			.721	.254	16	.932	.319	21	.746	.332	5	.572	.289	58	.616	.226	128	.644	.273	228	45				
			.726	.949	1.151	1.023	1.226	1.443	532	1.047	1.303	.494	.812	1.321	.615	.836	1.048	.574	.904	1.316					
40									.455	.211	133				.432	.208	34	.427	.674	.812	.450	.211	167	40	
									.427	.640	.995											.427	.647	.955	
35			.325	.153	23				.385	.271	19				.541	.117	17				.522	.329	59	35	
			.291	.511	.607				.313	.516	1.106				.952	1.053	1.150				.400	.949	1.155		
30	.118	.090	6	.159	.073	18			.225	.137	33										.193	.122	57	30	
	.101	.166	.278	.133	.219	.329			.175	.352	.543										.162	.294	.501		
25																									25
20	.152	.121	8									.117	.055	12							.129	.085	18	20	
	.100	.219	.386									.094	.181	.228							.091	.186	.348		
15																									15
10									.150	.296	15										.150	.296	15	10	
									.067	.134	.952										.067	.134	.952		
5	.166		1																		.166				5
0	.127	.042	3																		.127	.042	3	0	
	.102	.159	.183																		.102	.159	.183		
5						.047	.015	3													.047	.015	3	5	
						.045	.060	.066													.045	.060	.066		
10																									10
15												.084		1							.084				15
20																									20
25																									25
30																									30
35																									35
40				.281	.159	54						.198		1							.280	.158	55	40	
				.253	.428	.640															.246	.421	.640		
45S																									45S
	15E	60E	105E	150E	165W	120W	75W	30W	15E																
	LONGITUDE																								

CODE:

MEAN	ST. DEV.	N
50%	84%	98%

MAY
FL 490

	MEAN											LAT			
70N															
65					1.217	.330	.12					1.217	.330	.12	65
					1.256	1.496	1.785					1.256	1.496	1.785	
60								1.074	.389	.35					60
								1.105	1.510	1.705					
55								.688	.275	.32		.917	.409	.69	55
								.743	.934	1.161		.875	1.307	1.918	
50												.726	.237	.33	50
												.723	.990	1.206	
45			.862	.345	.16							.771	.417	.110	45
			.813	1.184	1.522		1.146	.292	.21			.714	.988	2.185	
40												.691	.250	.128	40
												.697	.934	1.264	
35			.348	.146	.23			.511	.251	.133		.464	.218	.34	35
			.340	.499	.627			.467	.685	1.134		.482	.667	.892	
30		.160	.084	.05	.175	.081	.18					1.062	.153	.16	30
		.151	.220	.301	.151	.208	.388					1.052	1.198	1.379	
25															
20		.169	.133	.06								.150	.075	.12	20
		.113	.248	.425								.120	.203	.316	
15															
10												.173	.352	.15	10
												.085	.111	1.121	
5		.091		.01											5
0		.150	.063	.03											0
		.114	.199	.234											
5						.056	.022	.03							5
						.049	.073	.084							
10															
15											.122			.122	15
20															
25															
30															
35															
40				.373	.232	.54						.585		.1	40
				.285	.549	.959									
45S															
	15E	60E	105E	150E	165W	120W	75W	30W	15E						

LONGITUDE

CODE: MEAN ST. DEV. N
50% 84% 98%

MAY
FL 510

	MEAN										LAT
70N											70N
65					1.458 .402 12 1.349 1.888 2.240						65
60						1.166 .435 35 1.058 1.643 2.056					60
55						.819 .310 32 .815 1.123 1.328	1.037 .416 69 1.001 1.321 1.698	.921 .319 33 .929 1.200 1.568			55
50								.870 .451 110 .791 1.136 2.543			50
45			.896 .326 16 1.003 1.150 1.402		1.333 .358 21 1.372 1.733 1.792	1.040 .454 5 .855 1.566 1.617	.829 .375 58 .774 1.249 1.573	.781 .291 128 .760 1.043 1.459		.858 .364 228 .729 1.222 1.707	45
40						.596 .286 133 .543 .826 1.370		.584 .283 34 .509 .906 1.168		.594 .286 167 .539 .836 1.341	40
35			.416 .221 23 .339 .696 .893			.392 .172 19 .404 .600 .688		1.253 .153 16 1.239 1.363 1.581		.639 .424 58 .494 1.232 1.464	35
30	.178 .089 5 .180 .249 321		.205 .096 18 .182 .232 .468			.292 .144 33 .296 .435 574				.254 .134 56 .171 .423 .552	30
25											25
20	.188 .145 6 .135 .278 464							.168 .075 12 .144 .252 .326		.175 .104 18 .131 .254 .438	20
15											15
10						.179 .413 15 .077 .096 1.268				.179 .413 15 .077 .096 1.268	10
5	.092 1									.092 1	5
0	.173 .083 3 .131 .238 282									.173 .083 3 .131 .238 282	0
5			.074 .028 3 .084 .097 .102							.074 .028 3 .084 .097 .102	5
10											10
15							.108 1			.108 1	15
20											20
25											25
30											30
35											35
40			.470 .245 54 .421 .736 .981					.491 1		.470 .243 55 .426 .733 .981	40
45S											45S
	15E	60E	105E	150E	165W	120W	75W	30W	15E		

LONGITUDE

CODE:

MEAN	ST. DEV.	N
50%	84%	98%

MAY
FL 530

		MEAN												LAT										
70N															70N									
65						1.658	.485	12							1.658	.485	12	65						
						1.715	2.027	2.536							1.715	2.027	2.536							
60									1.411	.489	35				1.411	.489	35	60						
									1.365	1.956	2.270				1.365	1.956	2.270							
55									.960	.300	32	1.222	.456	69	1.047	.276	33	1.116	.400	134	55			
									.969	1.244	1.542	1.193	1.655	2.245	1.048	1.250	1.553	.996	1.478	2.143				
50															1.010	.465	110	1.010	.465	110	50			
															.971	1.268	2.444	.969	1.268	2.444				
45			.981	.338	16				1.395	.550	21	1.243	.570	5	1.000	.389	58	.930	.296	128	1.001	.386	228	45
			.959	1.346	1.498				1.309	1.939	2.372	1.596	1.726	1.827	.967	1.391	1.754	.915	1.202	1.558	.880	1.360	1.923	
40									.689	.327	133							.733	.359	34	.698	.334	167	40
									.622	.946	1.497							.715	1.124	1.405	.625	.973	1.504	
35			.512	.249	23				.430	.193	19							1.379	.184	16	.724	.459	58	35
			.434	.774	1.077				.455	.583	.845							1.389	1.510	1.782	.537	1.339	1.622	
30		.197	.096	5	.251	.119	18				.357	.210	33							.309	.187	56	30	
		.208	.278	.340	.218	.312	.572				.300	.499	.853							.214	.467	.658		
25																								25
20		.218	.160	6										.229	.126	12				.225	.138	19	20	
		.172	.332	.505										.172	.342	.513				.167	.345	.541		
15																								15
10											.214	.467	15							.214	.467	15	10	
											.101	.129	1.447							.101	.129	1.447		
5		.128		1																.128		1	5	
0		.186	.090	3																.186	.090	3	0	
		.149	.258	.303																.149	.258	.303		
5					.114	.019	3													.114	.019	3	5	
					.128	.128	.128													.128	.128	.128		
10																							10	
15														.186		1				.186		1	15	
20																							20	
25																							25	
30																							30	
35																							35	
40			.562	.274	54										.816		1				.567	.273	55	40
			.513	.876	1.175																.518	.870	1.174	45S
45S																								
	15E	60E	105E	150E	165W	120W	75W	30W	15E															
	LONGITUDE																							

CODE:

MEAN	ST. DEV.	N
50%	84%	98%

MAY
FL 550

		MEAN									LAT	
70N											70N	
65					1.905 .436 12 2.072 2.307 2.419						1.905 .436 12 2.072 2.307 2.419	65
60						1.627 .589 35 1.672 2.208 2.932					1.627 .589 35 1.672 2.208 2.932	60
55						1.228 .386 32 1.199 1.583 2.070	1.474 .507 69 1.432 1.978 2.508		1.184 .308 33 1.181 1.495 1.777		1.344 .458 134 1.216 1.775 2.401	55
50									1.234 .523 110 1.127 1.530 2.804		1.234 .523 110 1.127 1.530 2.804	50
45		1.123 .284 16 1.088 1.471 1.646			1.704 .487 21 1.719 2.256 2.461	1.310 .497 5 1.115 1.694 2.149	1.198 .447 58 1.142 1.777 2.111		1.143 .287 128 1.126 1.411 1.863		1.211 .395 228 1.081 1.546 2.247	45
40						.863 .397 133 .763 1.143 1.872			.887 .347 34 .909 1.220 1.562		.868 .387 167 1.081 1.180 1.745	40
35		.636 .234 23 1.608 .889 1.057				.487 .243 19 .417 .682 1.056			1.496 .328 16 1.494 1.855 2.017		.824 .497 58 1.640 1.448 1.953	35
30	.259 .144 5 .249 .407 .458	.360 .195 18 .327 .464 .852				.464 .216 33 .473 .724 .871					.413 .216 56 .306 .616 1.020	30
25												25
20	.290 .152 6 .276 .389 .547						.289 .146 12 .221 .489 .528				.289 .148 18 .216 .491 .556	20
15												15
10						.270 .516 15 .129 .179 1.635					.270 .516 15 .129 .179 1.635	10
5	.103	1									.103	5
0	.204 .099 3 .174 .285 .330										.204 .099 3 .174 .285 .330	0
5			.135 .042 3 .151 .169 .176								.135 .042 3 .151 .169 .176	5
10												10
15							4.216	1			4.216	15
20												20
25												25
30												30
35												35
40		.762 .322 54 .707 1.142 1.460					.875	1			.764 .320 55 .715 1.135 1.459	40
45S												45S
	15E	60E	105E	150E	165W	120W	75W	30W	15E			
	LONGITUDE											

CODE:

MEAN	ST. DEV.	N
50%	84%	98%

MAY
FL 570

LAT	MEAN									LAT		
	15E	60E	105E	150E	165W	120W	75W	30W	15E			
70N											70N	
65					2.402 .437 12 2.337 2.821 3.169						65	
60						2.007 .616 35 2.018 2.681 3.048					60	
55						1.480 .387 31 1.388 1.819 2.307	1.768 .520 69 1.739 2.260 2.840	1.446 .355 33 1.470 1.800 2.023			55	
50								1.458 .519 110 1.407 1.741 2.854			50	
45			1.279 .330 16 1.289 1.471 1.908		1.876 .529 21 1.876 2.272 2.820	1.510 .486 5 1.505 1.846 2.291	1.350 .419 58 1.289 1.850 2.279	1.354 .302 128 1.357 1.616 2.096			45	
40						1.062 .415 133 1.972 1.446 1.955		1.071 .325 34 1.043 1.426 1.577			40	
35			.820 .289 23 .808 1.119 1.330			.548 .141 19 .571 .674 .807		1.861 .381 16 1.800 2.130 2.666			35	
30	.336 .223 5 .290 .525 .702		.520 .156 18 .519 .659 .818			.576 .222 33 .612 .786 1.050			.536 .215 56 .432 .732 1.004			30
25											25	
20	.354 .182 6 .377 .524 .599						.439 .198 12 .445 .646 .800		.411 .197 18 .348 .619 .777			20
15											15	
10						.336 .564 15 .186 .255 1.842			.336 .564 15 .186 .255 1.842			10
5	.286 1								.286 1			5
0	.222 .110 3 .199 .313 .359								.222 .110 3 .199 .313 .359			0
5				.264 .040 3 .247 .297 .317					.264 .040 3 .247 .297 .317			5
10											10	
15							2.979 1		2.979 1			15
20											20	
25											25	
30											30	
35											35	
40			.927 .340 54 .849 1.318 1.622				1.273 1		.933 .340 55 .858 1.305 1.621			40
45S											45S	

LONGITUDE

CODE:

MEAN	ST. DEV.	N
50%	84%	98%

MAY
FL 590

	MEAN										LAT	
70N												70N
65					2.611 .350 12							65
60					2.817 2.858 3.016							60
55						2.327 .564 35						55
50						2.254 2.912 3.406						50
45						1.806 .421 31	2.120 .495 69	1.723 .428 33				45
40						1.818 2.145 2.689	2.113 2.591 3.313	1.720 2.061 2.709				40
35								1.654 .537 110				35
30								1.598 1.948 3.031				30
25									1.654 .537 110			25
20									1.598 1.948 3.031			20
15												15
10												10
5												5
0												0
5												5
10												10
15												15
20												20
25												25
30												30
35												35
40												40
45S												45S
	15E	60E	105E	150E	165W	120W	75W	30W	15E			

LONGITUDE

CODE:	MEAN	ST. DEV.	N
	50%	84%	98%

JUNE
FL 190

	MEAN										LAT	
70N											70N	
65					.034 .016 12						.034 .016 12	65
60					.034 .052 .061						.034 .052 .061	60
55							.053 .016 34				.053 .016 34	55
50							.056 .066 .078				.056 .066 .078	50
45								.054 .018 26	.060 .017 61	.055 .014 31	.057 .017 118	45
40								.054 .069 .092	.056 .075 .088	.054 .067 .076	.056 .072 .087	40
35					.075 .027 2					.060 .023 104	.061 .023 106	35
30					.075 .093 100					.061 .079 108	.061 .080 108	30
25												25
20					.080 .016 16			.044 .021 10	.039 1	.060 .018 29	.058 .015 109	20
15					.083 .097 106			.051 .061 .076		.060 .076 100	.058 .070 .088	15
10								.072 .046 3	.055 .025 130	.064 1	.057 .020 30	10
5								.096 .107 111	.054 .079 101		.056 .079 .090	5
0					.070 .041 15			.080 .017 2	.040 .014 18		.055 .033 35	0
5					.065 .098 150			.080 .092 .096	.035 .056 .069		.050 .088 143	5
10					.043 .018 5				.056 .017 17		.051 .020 36	10
15					.042 .063 .064				.051 .076 .082		.037 .076 .081	15
20												20
25												25
30												30
35												35
40												40
45S												45S
15E												
60E												
105E												
150E												
165W												
120W												
75W												
30W												
15E												

CODE:

MEAN	ST. DEV.	N
50%	84%	98%

JUNE
FL 210

		MEAN												LAT								
70N															70N							
65						.036	.016	12						.036	.016	12	65					
						.035	.052	.062						.035	.052	.062						
60										.055	.018	34			.055	.018	34	60				
										.058	.069	.087			.058	.069	.087					
55										.057	.019	26	.061	.018	61	.056	.014	32	55			
										.054	.071	.102	.061	.077	.099	.059	.067	.077				
50															.066	.023	108	.066	.023	108	50	
															.065	.087	.116	.065	.087	.116		
45			.089	.024	16	.050	.026	11	.050	.009	2	.061	.017	29	.061	.017	110	.063	.020	158	45	
			.091	.114	.130	.055	.075	.091	.050	.056	.059	.064	.074	.090	.061	.076	.101	.058	.078	.112		
40						.040	.003	4	.055	.024	143	.070	.016	10	.060	.021	31	.057	.023	188	40	
						.041	.043	.043	.053	.082	.100	.071	.088	.098	.064	.079	.095	.052	.080	.100		
35			.075	.045	16	.024	.008	4	.046	.021	32				.053	.034	52	.053	.034	52	35	
			.070	.111	.170	.022	.030	.036	.039	.083	.092				.043	.077	.152	.043	.077	.152		
30	.052	.023	6	.053	.025	14			.058	.021	17				.055	.023	37	.055	.023	37	30	
	.049	.071	.089	.050	.078	.098			.057	.068	.108				.054	.074	.104	.054	.074	.104		
25																					25	
20	.047	.016	9						.034	.012	16			.059	.028	11	.045	.022	36	20		
	.048	.061	.071						.036	.044	.056			.048	.099	.103	.039	.061	.101			
15	.034	.026	3												.034	.026	3	.034	.026	3	15	
	.024	.055	.068												.024	.055	.068	.024	.055	.068		
10	.044	.008	3						.024	.008	15				.028	.011	18	.028	.011	18	10	
	.047	.050	.051						.027	.031	.035				.028	.035	.050	.028	.035	.050		
5	.039	.023	2												.039	.023	2	.039	.023	2	5	
	.039	.055	.061												.039	.055	.061	.039	.055	.061		
0	.038	.015	5												.038	.015	5	.038	.015	5	0	
	.033	.050	.062												.033	.050	.062	.033	.050	.062		
5						.015	.004	4							.015	.004	4	.015	.004	4	5	
						.016	.019	.021							.016	.019	.021	.016	.019	.021		
10																					10	
15						.031		1					.021	.004	2	.024	.006	3	.024	.006	3	15
													.021	.024	.025	.025	.029	.031	.025	.029	.031	
20																					20	
25																					25	
30																					30	
35			.025		1	.044	.009	2							.037	.011	3	.037	.011	3	35	
						.044	.049	.052							.035	.047	.051	.035	.047	.051		
40			.036	.007	60							.015	.003	3	.035	.009	63	.035	.009	63	40	
			.034	.043	.051							.017	.017	.017	.033	.042	.051	.033	.042	.051		
45S						.045	.010	5		.072	1				.050	.013	6	.050	.013	6	45S	
						.045	.052	.061							.046	.064	.071	.046	.064	.071		
	15E	60E	105E	150E	165W	120W	75W	30W	15E													
	LONGITUDE																					

CODE: MEAN ST. DEV. N
50% 84% 98%

JUNE
FL 230

		MEAN												LAT							
70N																70N					
65						.037	.012	13							.037	.012	13	65			
60						.035	.054	.053							.057	.019	34	60			
55										.057	.019	34			.060	.074	.092	55			
50										.061	.022	26	.066	.023	61	.058	.016	32	50		
45	.077	1			.090	.024	15			.054	.089	106	.066	.087	112	.061	.067	.091	45		
40	.076	1			.049	.025	10	.056	.009	3	.062	.019	29	.063	.020	109	.063	.022	168	40	
35					.057	.064	.089	.055	.063	.067	.061	.077	100	.063	.080	111	.061	.085	114	35	
30			.046	.016	5	.077	.048	15	.018	1	.047	.020	22				.058	.037	38	30	
25			.044	.063	.068	.068	.127	.176			.045	.064	.090				.051	.062	157	25	
20						.053	.025	14			.061	.026	17				.056	.025	36	20	
15						.048	.073	109			.053	.079	124				.039	.076	124	15	
10																				10	
5																				5	
0			.049	.016	10	.036		1			.042	.016	10	.065	.031	11	.052	.024	32	0	
5			.051	.064	.076						.040	.059	.064		.050	.104	120	.046	.058	113	5
10			.042	.017	2												.042	.017	2	10	
15			.042	.054	.058												.042	.054	.058	15	
20			.045	.008	3						.024	.009	15				.028	.012	18	20	
25			.050	.051	.051						.025	.032	.037				.027	.036	.051	25	
30			.066		1												.066		1	30	
35			.042	.018	4												.042	.018	4	35	
40			.039	.058	.069												.039	.058	.069	40	
45						.015	.003	4									.015	.003	4	45	
50						.016	.017	.017									.016	.017	.017	50	
55																				55	
60														.025	.007	2	.025	.007	2	60	
65														.025	.029	.031	.025	.029	.031	65	
70																				70	
75																				75	
80																				80	
85																				85	
90																				90	
95						.050	.005	2									.050	.005	2	95	
100						.050	.053	.055									.050	.053	.055	100	
105						.036	.007	60						.015	.002	3	.035	.008	63	105	
110						.036	.044	.051						.016	.017	.017	.035	.043	.051	110	
115						.047	.010	5	.077	1							.052	.015	6	115	
120						.047	.056	.064									.049	.067	.076	120	

LONGITUDE

CODE:

MEAN	ST. DEV.	N
50%	84%	98%

JUNE
FL 250

	MEAN										LAT															
70N											70N															
65					.046	.024	12					.046	.024	12	65											
60					.043	.065	.096					.043	.065	.096	60											
55								.062	.024	34					.062	.024	34	55								
50								.062	.082	.109					.062	.082	.109	50								
45								.069	.032	26	.076	.036	61	.059	.022	31	.070	.033	118	45						
40								.057	.101	.151	.067	.098	.167	.059	.068	.114	.063	.093	.160	40						
35														.073	.027	113	.069	.100	.133	.073	.027	113	35			
30														.069	.100	.133	.069	.100	.133	.069	.100	.133	30			
25																							25			
20								.093	.029	16	.045	.032	11	.053	.005	2	.068	.026	30	.068	.024	110	.059	.027	169	20
15								.096	.126	.138	.047	.061	.114	.053	.056	.057	.065	.091	.121	.067	.065	.130	.066	.088	.136	15
10											.048		1	.062	.031	134	.040		1	.063	.020	31	.082	.029	167	10
5														.060	.084	.144				.063	.081	.103	.060	.083	.133	5
0								.073	.001	2	.076	.045	14	.050	.020	30							.057	.033	48	0
5								.073	.074	.074	.069	.108	.166	.054	.071	.079							.052	.076	156	5
10								.072		1	.049	.017	5	.055	.029	14							.056	.023	37	10
15								.048			.048	.067	.071	.054	.075	.122							.055	.074	106	15
20																										20
25																										25
30																										30
35																										35
40																										40
45																										45
50																										50
55																										55
60																										60
65																										65
70																										70

CODE:	MEAN	ST. DEV.	N
	50%	84%	98%

JUNE
FL 270

	MEAN																		LAT										
																			70N										
65						.053	.036	13											.053	.036	13	65							
60						.072	.032	34											.072	.032	34	60							
55						.076	.047	26				.087	.054	61		.069	.039	32	.080	.050	119	55							
50						.092	.006	2				.082	.086	088		.070	.107	181	.079	.036	115	50							
45	.092	.013	3			.097	.025	16			.049	.032	10		.057	.011	3		.078	.030	36	.075	.037	110	.076	.035	178	45	
40	.071	.025	3			.060		1			.042	.081	110		.060	.056	069		.072	.111	146	.071	.089	200	.069	.103	178	40	
35	.069	.024	4			.070	.037	18			.044	.009	4		.071	.057	140		.062	.010	2		.067	.019	30	.070	.051	180	35
30	.063	.089	104			.063	.108	144			.036	.033	2		.047	.017	22		.062	.069	072		.069	.084	109	.061	.080	193	30
25	.055		1			.052	.032	7			.048	.075	101		.060	.020	17		.064	.078	095					.056	.024	38	25
20						.052	.018	9			.045	.016	11						.064	.035	11					.055	.026	33	20
15						.033	.017	5			.045	.059	070						.049	.114	125					.036	.016	6	15
10						.061	.021	3																		.033	.018	18	10
5						.075		1																		.032	.042	078	5
0						.048	.022	4																		.048	.022	4	0
5											.018	.004	4													.042	.067	081	5
10											.018	.021	023													.018	.004	4	10
15																										.029	.012	3	15
20											.049		1													.025	.004	2	20
25																										.025	.038	029	25
30																										.033	.043	048	30
35						.028		1																		.028		1	35
40						.041		1			.060	.044	2													.053	.037	3	40
45S						.039	.010	60			.060	.089	101													.041	.083	101	45S
						.052	.012	5																		.040	.011	63	
						.052	.064	070																		.038	.050	068	
											.073		1													.025	.014	3	
																										.056	.014	5	
																										.056	.071	073	
	15E	60E	105E	150E	165W	120W	75W	30W	15E																				
										LONGITUDE																			

CODE:

MEAN	ST. DEV.	N
50%	84%	98%

JUNE
FL 290

	MEAN									LAT			
70N													70N
65										.061	.041	12	65
										.051	.091	147	
60										.098	.093	34	60
										.075	.125	377	
55										.089	.057	26	55
										.068	.137	235	
50										.103	.075	61	50
										.081	.152	354	
45										.077	.057	38	45
										.066	.084	302	
40										.092	.067	125	40
										.071	.118	304	
35										.091	.056	118	35
										.079	.120	240	
30										.084	.056	114	30
										.072	.105	275	
25										.089	.051	183	25
										.072	.107	253	
20										.075	.058	193	20
										.068	.101	179	
15										.083	.034	58	15
										.053	.085	168	
10										.081	.023	45	10
										.061	.092	099	
5										.060	.017	15	5
										.060	.073	098	
0										.051	.025	40	0
										.044	.077	109	
5										.095	.014	3	5
										.026	.045	053	
10										.032	.018	20	10
										.025	.040	081	
15										.027	.030	3	15
										.029	.036	041	
20										.040	.026	8	20
										.031	.059	085	
25										.019	.005	5	25
										.019	.022	026	
30										.028	.006	2	30
										.026	.029	031	
35										.034	.005	2	35
										.034	.037	038	
40										.025	.005	2	40
										.025	.026	027	
45S										.028	.005	4	45S
										.028	.034	038	
15E										.038	.004	2	15E
60E										.033	.036	037	60E
105E										.037	.002	2	105E
150E										.037	.038	039	150E
165W										.045		1	165W
120W										.051	.005	4	120W
75W										.051	.034	055	75W
30W										.053	.011	4	30W
15E										.052	.063	068	15E
										.051	.018	10	
										.046	.072	084	
										.041	.001	2	
										.041	.042	042	
										.046	.018	60	
										.041	.055	092	
										.041	.055	3	
										.016	.068	089	
										.055	.013	5	
										.055	.068	073	

LONGITUDE

CODE: MEAN ST. DEV. N
50% 84% 98%

JUNE
FL 350

		MEAN												LAT									
70N														.576	.010	3	.606	.016	3	.591	.020	5	70N
														.577	.584	.588	.604	.619	.625	.576	.608	.624	
65																							65
60																							60
55																							55
50																							50
45																							45
40																							40
35																							35
30																							30
25																							25
20																							20
15																							15
10																							10
5																							5
0																							0
5																							5
10																							10
15																							15
20																							20
25																							25
30																							30
35																							35
40																							40
45S																							45S

LONGITUDE

CODE:

MEAN	ST. DEV.	N
50%	84%	98%

JUNE
FL 370

		MEAN												LAT								
70N										660	1	.583	.111	14	.569	.014	5	.583	.095	20	70N	
												.617	.645	.666	.562	.583	.590	.594	.646	.665		
65										.512	.131	.50	.593	.075	.23	.505	.135	.15	.491	.172	.15	65
										.529	.612	.766	.613	.653	.671	.557	.626	.634	.565	.637	.671	
60										.491	.089	.13	.391	.180	.48	.452	.165	.66	.482	.107	.23	60
										.531	.568	.583	.476	.552	.645	.490	.605	.671	.176	.418	.553	
55										.439	.153	.45	.399	.191	.26	.331	.159	.69	.347	.200	.74	55
										.471	.591	.646	.442	.583	.692	.360	.514	.590	.297	.546	.808	
50										.241	.167	.16	.294	.150	.33	.190	.138	.37	.159	.137	.41	50
										.177	.410	.569	.356	.430	.514	.154	.354	.476	.096	.338	.493	
45	.197	1								.248	.173	.17	.313	.152	.38	.146	.109	.53	.231	.214	.48	45
										.176	.455	.599	.344	.462	.567	.096	.259	.437	.119	.540	.704	
40	.067	.039	7							.180	.120	.8	.132	.118	.34	.149	.146	.57	.094	.033	.3	40
	.040	.115	.119							.121	.337	.352	.099	.163	.492	.078	.282	.587	.108	.120	.125	
35	.039	1								.101	.080	.28	.091	.079	.17	.106	.103	.152	.093	.076	.75	35
										.073	.148	.297	.063	.120	.296	.071	.150	.522	.070	.126	.359	
30		.061	.020	5						.096	.070	.25	.100	.079	.12	.080	.061	.198	.070	.036	.17	30
		.057	.073	.094						.070	.173	.271	.070	.156	.282	.053	.116	.248	.067	.088	.154	
25		.032		1						.061	.013	.3	.044	.014	.9	.064	.034	.164	.052		1	25
										.055	.071	.078	.044	.053	.072	.057	.085	.190				
20		.057	.028	13						.043	.017	.6	.042	.009	.3	.055	.023	.45	.040	.002	.2	20
		.045	.094	.102						.040	.061	.066	.043	.049	.052	.051	.079	.096	.040	.041	.041	
15		.050	.014	6						.041	.007	.5	.038	.018	.18	.030	.009	.3				15
		.053	.062	.066						.037	.049	.050	.030	.052	.081	.037	.037	.037				
10		.044	.021	9						.041	.006	.4	.022	.001	.4	.029	.008	.17	.036	.017	.15	10
		.039	.055	.090						.041	.047	.048	.022	.023	.024	.027	.037	.045	.034	.053	.066	
5		.048	.036	3						.029	.015	.9	.029	.015	.9	.032	.009	.12				5
		.023	.075	.096						.021	.045	.057	.021	.045	.057	.032	.040	.045				
0		.061	.034	4						.032	.011	.13	.032	.011	.13	.035	.012	.5				0
		.048	.090	.113						.029	.041	.047	.029	.041	.047	.035	.046	.051				
5										.028	.012	.16	.028	.012	.16	.036	.008	.6				5
										.028	.039	.051	.028	.039	.051	.037	.043	.047				
10										.030	.008	.8	.030	.008	.8	.035	.014	.2				10
										.028	.039	.043	.028	.039	.043	.035	.044	.047				
15		.027		1						.034	.010	.6	.034	.010	.6				.033	.001	.2	15
										.030	.046	.050	.030	.046	.050				.033	.033	.033	
20										.028	.015	.12	.028	.015	.12							20
										.029	.046	.052	.029	.046	.052							
25										.027	.015	.11	.027	.015	.11							25
										.024	.042	.055	.024	.042	.055							
30		.042	.003	3						.062	.019	.5	.076	.025	.8							30
		.043	.044	.045						.057	.083	.088	.085	.096	.105							
35										.090	.043	.15	.099	.058	.8							35
										.087	.117	.189	.094	.129	.214							
40										.140	.090	.61							.394	.341	.3	40
										.113	.226	.364							.097	.586	.787	
45S										.113	.082	.5										45S
										.064	.176	.257										

LONGITUDE

CODE: MEAN ST. DEV. N
50% 84% 98%

JUNE
FL 390

		MEAN												LAT									
70N										.598	.076	28	.560	.116	70	.477	.103	6	.566	.109	104	70N	
										.628	.667	.667	.601	.657	.695	.521	.556	.568	.597	.659	.697		
65										.567	.163	4	.593	.143	49	.434	.153	31	.553	.127	225	65	
										.603	.717	.733	.588	.644	.702	.491	.583	.606	.576	.646	.750		
60										.552	.120	21	.552	.099	60	.520	.126	41	.518	.142	259	60	
										.606	.668	.696	.554	.650	.738	.539	.635	.668	.550	.639	.703		
55										.447	.201	27	.285	.130	11	.427	.203	63	.437	.176	231	55	
										.477	.645	.693	.254	.425	.478	.517	.625	.665	.430	.532	.607		
50										.463	.213	16	.189	.116	20	.125	.049	6	.335	.188	179	50	
										.540	.693	.744	.153	.326	.400	.387	.554	.623	.342	.520	.719		
45										.352	.201	20	.345	.179	29	.208	.205	42	.296	.193	277	45	
										.369	.604	.661	.334	.539	.651	.203	.451	.606	.273	.482	.645		
40										.303	.188	11	.202	.153	17	.172	.152	284	.189	.157	364	40	
										.326	.476	.590	.139	.374	.493	.111	.287	.637	.119	.326	.598		
35										.093	.089	23	.067	.029	9	.102	.071	92	.094	.070	146	35	
										.061	.146	.332	.057	.097	.106	.084	.129	.300	.070	.125	.310		
30		.064	.021	5	.076	.048	17	.039	.015	14	.105	.106	32	.074	.043	20	.060	.098	.189	.080	.074	88	30
		.061	.079	.098	.064	.103	.204	.037	.054	.067	.074	.139	.403	.060	.098	.189				.054	.104	.340	
25										.075	.001	2	.080	.073	26	.050	.007	3	.073	.067	33	25	
										.075	.075	.075	.015	.018	.019	.055	.126	.273	.050	.055	.058		
20		.072	.042	9	.081	.003	3	.073	.047	15	.026	.009	2	.079	.044	11	.026	.032	.035	.073	.043	40	20
		.066	.118	.126	.081	.084	.085	.067	.108	.163	.026	.032	.035	.074	.114	.173				.069	.113	.169	
15		.069	.008	3				.033	.015	8	.007		1							.040	.022	12	15
		.070	.076	.079				.030	.043	.059										.035	.064	.077	
10		.072	.025	3				.040		1	.029	.010	10	.035	.017	15				.037	.020	29	10
		.059	.091	.104				.028	.039	.041	.033	.048	.064							.033	.049	.086	
5		.106		1				.039		1	.033	.016	11							.039	.024	13	5
								.035	.046	.059										.036	.050	.093	
0		.064	.035	4				.026		1	.032	.012	13							.038	.024	18	0
		.051	.094	.117				.032	.043	.052										.030	.047	.101	
5								.028	.017	5	.039	.012	10							.035	.015	15	5
								.024	.040	.057	.034	.052	.060							.029	.052	.060	
10								.032	.010	11	.035	.010	5							.033	.010	16	10
								.028	.041	.055	.030	.044	.051							.028	.045	.056	
15		.025		1				.034	.011	11										.034	.010	14	15
								.031	.043	.059										.031	.041	.058	
20	.030	1	.026	1				.050	.016	8										.045	.017	10	20
								.051	.062	.075										.047	.060	.074	
25								.060	.016	3										.060	.016	3	25
								.051	.072	.081										.051	.072	.081	
30								.067	.022	4										.067	.022	4	30
								.068	.086	.094										.068	.086	.094	
35								.115	.039	2										.162	.092	26	35
								.115	.141	.151										.140	.232	.383	
40								.179	.101	60										.190	.140	63	40
								.156	.290	.377										.154	.292	.442	
45S								.164	.092	5	.065		1							.148	.092	6	45S
								.115	.241	.323										.104	.217	.320	

LONGITUDE

CODE: MEAN ST. DEV. N
50% 84% 98%

JUNE
FL 410

		MEAN												LAT
70N									.519 .106 8	.619 .145 15			.564 .141 23	70N
								.497 .571 .719	.660 .722 .774				.624 .714 768	
65								.695 .188 12	.546 .124 13	.472 .188 52	.429 .178 19		.502 .196 96	65
								.737 .878 .915	.578 .663 .688	.544 .665 .705	.498 .610 .647		.524 .675 .675	
60								.643 .095 8	.584 .176 55	.482 .160 57	.427 .167 77		.496 .180 197	60
								.650 .746 .757	.578 .703 .983	.490 .663 .724	.436 .623 .689		.516 .666 .773	
55								.478 .193 19	.479 .161 56	.488 .196 62	.472 .118 68		.479 .164 205	55
								.523 .672 .738	.530 .625 .695	.486 .654 .878	.483 .587 .715		.490 .624 787	
50								.525 .116 21	.365 .125 4	.450 .146 44	.511 .140 5	.411 .170 105	.436 .162 179	50
								.518 .658 .715	.403 .455 .490	.455 .621 .665	.573 .624 .691	.427 .559 .774	.435 .581 .730	
45	.533 .071 3			.358 .211 20	.332 .213 13	.298 .244 33	.382 .166 47	.325 .245 31	.385 .150 110	.363 .192 257			.363 .192 257	45
	.507 .591 .626			.321 .583 .734	.267 .547 .635	.211 .462 .895	.392 .574 .628	.236 .628 .936	.409 .540 .664				.354 .550 742	
40	.645 .039 5			.182 .198 13	.123 .139 16	.296 .172 28	.223 .171 169		.280 .142 30	.238 .180 261			.238 .180 261	40
	.670 .677 .686			.061 .342 .623	.064 .184 .471	.282 .500 .590	.167 .370 .651		.283 .424 .521	.172 .430 .667			.172 .430 .667	
35	.160 .110 3			.178 .169 29	.067 .012 2	.100 .054 4	.208 .155 22			.179 .157 60			.179 .157 60	35
	.104 .246 .305			.084 .402 .558	.067 .074 .078	.105 .154 .157	.130 .389 .535			.070 .375 573			.070 .375 573	
30	.062 .004 2	.068 .026 5		.132 .132 21		.088 .040 10	.089 .056 17			.102 .093 55			.102 .093 55	30
	.062 .064 .065	.067 .090 .107		.072 .178 .478		.092 .120 .142	.077 .112 .235			.072 .124 .463			.072 .124 .463	
25				.088 .022 7		.092 .116 13				.091 .095 20			.091 .095 20	25
				.096 .100 .117		.040 .117 .399				.053 .112 .356			.053 .112 .356	
20		.081 .049 9		.085 .015 4		.060 .042 11		.090 .058 11		.078 .049 35			.078 .049 35	20
		.073 .138 .149		.087 .097 .102		.045 .089 .152		.073 .134 .212		.072 .126 .185			.072 .126 .185	
15		.042 .032 5		.086 1		.035 .005 3				.045 .028 9			.045 .028 9	15
		.023 .071 .095				.033 .039 .042				.033 .077 .097			.033 .077 .097	
10		.076 .026 3				.026 .006 2	.040 .017 15			.044 .023 20			.044 .023 20	10
		.058 .095 .111				.026 .029 .031	.045 .052 .074			.046 .058 .100			.046 .058 .100	
5		.113 1				.045 1				.079 .034 2			.079 .034 2	5
										.079 .102 .112			.079 .102 .112	
0		.067 .034 4								.067 .034 4			.067 .034 4	0
		.058 .096 .119								.056 .096 .119			.056 .096 .119	
5				.028 .019 4						.028 .019 4			.028 .019 4	5
				.023 .042 .057						.023 .042 .057			.023 .042 .057	
10														10
15									.037 .002 2	.037 .002 2			.037 .002 2	15
									.037 .038 .039	.037 .038 .039			.037 .038 .039	
20				.054 1						.054 1			.054 1	20
25				.071 .010 5						.071 .010 5			.071 .010 5	25
				.071 .077 .088						.071 .077 .088			.071 .077 .088	
30				.134 .053 5						.134 .053 5			.134 .053 5	30
				.111 .158 .229						.111 .158 .229			.111 .158 .229	
35				.281 .119 17						.281 .119 17			.281 .119 17	35
				.303 .395 .454						.303 .395 .454			.303 .395 .454	
40				.213 .113 60					.393 .304 3	.222 .134 63			.222 .134 63	40
				.179 .322 .512					.194 .621 .797	.181 .322 .515			.181 .322 .515	
45S				.211 .081 5				.070 1		.188 .091 6			.188 .091 6	45S
				.159 .282 .349						.157 .262 .347			.157 .262 .347	

LONGITUDE

CODE:

MEAN	ST. DEV.	N
50%	84%	98%

JUNE
FL 430

		MEAN												LAT					
70N																		70N	
65																.764	.221	.12	65
60																.752	.977	1.033	60
55																.639	.173	.47	55
50																.643	.004	.2	50
45																.643	.646	.647	45
40																.639	.170	.49	40
35																.643	.788	1.083	35
30																.530	.185	.132	30
25																.516	.698	.954	25
20																.449	.161	.105	20
15																.447	.610	.783	15
10																.436	.166	.119	10
5																.447	.610	.783	5
0																.428	.139	.109	0
5																.443	.552	.720	5
10																.420	.187	.188	10
15																.443	.585	.815	15
20																.428	.139	.109	20
25																.443	.552	.720	25
30																.420	.187	.188	30
35																.443	.585	.815	35
40																.428	.139	.109	40
45																.443	.552	.720	45
45S																.420	.187	.188	45S

LONGITUDE

CODE:

MEAN	ST. DEV.	N
50%	84%	98%

JUNE
FL 450

		MEAN												LAT					
70N																70N			
65						.816	.300	12							.816	.300	12	65	
						.763	1.153	1.343							.763	1.153	1.343		
60						.660	.222	34							.660	.222	34	60	
						.660	.795	1.236							.660	.795	1.236		
55						.520	.162	26			.611	.221	60		.574	.135	31	55	
						.532	.651	.824			.606	.810	1.122		.612	.678	.832		
50															.500	.175	105	50	
															.493	.634	.892		
45			.515	.217	16		.514	.317	10		.451		1		.433	.256	29	45	
			.516	.775	.820		.467	.899	.987						.359	.704	.982		
40											.292	.180	128		.409	.170	30	40	
											.256	.422	.776		.413	.570	.710		
35			.175	.133	14						.244	.216	16			.212	.185	30	35
			.142	.302	.466						.169	.487	.729			.106	.384	.686	
30		.078	.036	5		.111	.068	14			.170	.164	17			.134	.128	36	30
		.083	.111	.126		.090	.151	.283			.124	.250	.610			.080	.197	.447	
25																			25
20		.112	.062	8			.052	.034	4						.137	.118	11	20	
		.108	.174	.204			.046	.084	.099						.074	.284	.362		
15		.081	.026	2												.081	.026	2	15
		.081	.098	.105												.081	.098	.105	
10		.118	.020	3							.046	.017	15			.058	.032	18	10
		.128	.134	.137							.049	.055	.074			.052	.081	.134	
5		.128		1												.128		1	5
0		.084	.027	4												.084	.027	4	0
		.075	.108	.124												.075	.108	.124	
5						.029	.019	4								.029	.019	4	5
						.020	.042	.059								.020	.042	.059	
10																			10
15											.042	.006	2			.042	.006	2	15
											.042	.046	.048			.042	.046	.048	
20																			20
25																			25
30																			30
35																			35
40			.296	.149	60						.524	.288	3			.307	.165	63	40
			.271	.434	.584						.628	.754	.806			.271	.454	.769	
45S						.288	.115	5			.088		1			.255	.129	6	45S
						.280	.366	.478								.252	.334	.474	
	15E	60E	105E	150E	165W	120W	75W	30W	15E										
	LONGITUDE																		

CODE: MEAN ST. DEV. N
50% 84% 98%

JUNE
FL 470

		MEAN												LAT						
70N															70N					
65					.911	.171	.12								65					
					.888	1.107	1.250													
60					.738	.221	.34								60					
					.734	.833	1.305													
55					.560	.185	.26	.695	.244	.60	.641	.170	.31	.651	.220	.117	55			
					.592	.693	.849	.663	.910	1.278	.671	.797	.910	.647	.858	1.225				
50											.553	.188	.105	.553	.188	.105	50			
											.564	.732	.862	.564	.732	.862				
45			.571	.232	.16						.588	.316	.10	.533		1	.481	.264	.29	45
			.560	.840	.969						.562	.858	1.150				.471	.747	1.014	
40											.347	.183	.128				.449	.174	.30	40
											.324	.542	.804				.463	.605	.814	
35			.191	.110	.14						.268	.225	.16				.232	.185	.30	35
			.175	.322	.370						.166	.493	.783				.130	.353	.728	
30		.090	.041	.5	.116	.047	.14				.182	.167	.17				.144	.125	.36	30
		.105	.127	.139	.098	.162	.218				.130	.217	.646				.092	.203	.467	
25																				25
20		.130	.068	.8				.071	.035	.4				.170	.129	.11	.139	.105	.23	20
		.126	.200	.215				.077	.103	.111				.131	.305	.425	.112	.218	.394	
15		.091	.021	.2													.091	.021	.2	15
		.091	.105	.111													.091	.105	.111	
10		.111	.028	.3							.061	.027	.15				.070	.033	.18	10
		.125	.133	.137							.056	.083	.115				.063	.095	.134	
5		.135		1													.135		1	5
0		.087	.031	.4													.087	.031	.4	0
		.083	.116	.127													.083	.116	.127	
5					.037	.021	.4										.037	.021	.4	5
					.026	.050	.070										.026	.050	.070	
10																				10
15											.060	.003	.2				.060	.003	.2	15
											.060	.061	.062				.060	.061	.062	
20																				20
25																				25
30																				30
35																				35
40			.355	.204	.60						.448	.382	.3				.359	.216	.63	40
			.302	.583	.908						.198	.735	.956				.300	.589	.946	
45S					.385	.068	.5				.135		1				.344	.112	.6	45S
					.360	.432	.505										.351	.412	.502	
	15E	60E	105E	150E	165W	120W	75W	30W	15E											
	LONGITUDE																			

CODE:

MEAN	ST. DEV.	N
50%	84%	98%

JUNE
FL 490

		MEAN												LAT					
70N															70N				
65						1.020	.217	.12							65				
						.994	1.233	1.401											
60							.901	.305	.34						60				
							.884	1.140	1.693										
55							.636	.259	.26	.772	.269	.60	.693	.181	.31	55			
							.693	.889	1.110	.762	1.025	1.357	.677	.843	1.067				
50													.619	.180	.105	50			
													.613	.816	.991				
45			.556	.217	.16	.727	.348	.10	.579	1	.580	.303	.29	.598	.164	.109	45		
			.557	.784	.930	.700	.956	1.422			.554	.988	1.143	.592	.753	.935			
40							.407	.203	.128				.457	.174	.30	40			
							.382	.585	.881				.474	.628	.795				
35			.228	.119	.14		.257	.121	.16							.243	.121	.30	35
			.232	.371	.416		.223	.388	.479							.158	.380	.462	
30		.101	.047	.5	.140	.048	.14		.220	.224	.17					.172	.164	.36	30
		.126	.142	.153	.127	.202	.229		.144	.248	.848					.117	.224	.622	
25																			25
20		.147	.078	.8		.136	.077	.4			.212	.143	.11			.176	.119	.23	20
		.146	.228	.244		.145	.204	.228			.167	.404	.432			.167	.264	.426	
15		.104	.020	.2												.104	.020	.2	15
		.104	.118	.123												.104	.118	.123	
10		.118	.031	.3					.072	.025	.15					.080	.031	.18	10
		.133	.142	.145					.070	.097	.118					.073	.116	.142	
5		.143		.1												.143		.1	5
0		.124	.065	.4												.124	.065	.4	0
		.099	.177	.224												.099	.177	.224	
5					.044	.024	.4									.044	.024	.4	5
					.033	.061	.082									.033	.061	.082	
10																			10
15										.080	.002	.2				.080	.002	.2	15
										.080	.081	.082				.080	.081	.082	
20																			20
25																			25
30																			30
35																			35
40			.399	.208	.60					.372	.181	.3				.398	.207	.63	40
			.360	.639	.837					.250	.507	.613				.359	.631	.833	
45S					.498	.158	.4		.182	1						.434	.189	.5	45S
					.517	.621	.689									.496	.595	.686	
	15E	60E	105E	150E	165W	120W	75W	30W	15E										
	LONGITUDE																		

CODE:

MEAN	ST. DEV.	N
50%	84%	98%

JUNE
FL 510

		MEAN												LAT			
70N															70N		
65						1.225	.273	12								65	
						1.209	1.510	1.603									
60						1.085	.289	34								60	
						1.024	1.372	1.761									
55						.716	.279	26	.916	.244	60	.800	.195	31	.841	.254	117
						.745	.967	1.268	.911	1.191	1.413	.768	1.002	1.153	.817	1.092	1.343
50												.748	.206	105	.748	.206	105
												.732	.951	1.206	.732	.951	1.206
45			.612	.253	16	.885	.396	10	.718		1	.628	.277	29	.582	.179	109
			.617	.865	1.055	.761	1.327	1.520				.691	.865	1.040	.669	.862	1.238
40									.486	.217	127				.500	.199	30
									.493	.711	.962				.443	.743	.858
35			.303	.158	14				.356	.243	16				.331	.209	30
			.358	.462	.533				.247	.527	.925				.168	.482	.906
30		.112	.053	5	.168	.067	14		.286	.261	17				.216	.197	36
		.147	.157	.165	.154	.223	.318		.197	.406	.987				.133	.322	.750
25																	
20		.166	.090	8				.269	.228	4		.273	.164	11	.235	.165	23
		.172	.243	.285				.172	.427	.628		.225	.481	.546	.216	.382	.612
15		.116	.018	2										.118	.018	2	
		.116	.127	.132										.116	.127	.132	
10		.189	.087	3					.107	.031	15				.121	.055	18
		.155	.260	.303					.104	.134	.180				.112	.152	.259
5		.151		1										.151		1	
0		.120	.048	4										.120	.048	4	
		.110	.164	.188										.110	.164	.188	
5					.067	.024	4							.067	.024	4	
					.064	.090	.096							.064	.090	.096	
10																	
15											.117	.019	2	.117	.019	2	
											.117	.129	.134	.117	.129	.134	
20																	
25																	
30																	
35																	
40			.511	.262	60							.452	.174	3	.508	.259	63
			.423	.839	1.054							.388	.593	.678	.420	.812	1.052
45S					.548	.180	4		.248		1				.488	.201	5
					.487	.709	.816								.397	.668	.811
	15E	60E	105E	150E	165W	120W	75W	30W	15E								

LONGITUDE

CODE:

MEAN	ST. DEV.	N
50%	84%	98%

JUNE
FL 530

		MEAN												LAT					
70N															70N				
65						1.469	.196	.12							65				
						1.459	1.681	1.717											
60									1.267	.362	.34				60				
									1.183	1.646	2.123								
55									.875	.301	.26	1.075	.257	.60	55				
									.913	1.097	1.409	1.066	1.358	1.554					
50													.961	.256	.31	50			
													.855	1.110	1.568				
45			.751	.307	.16									.884	.248	.105	45		
			.761	1.154	1.210	1.228	.387	.10	527		1	.805	.277	.29	.781	.237	.109		
						1.267	1.546	1.765				.793	1.093	1.261	.805	.967	1.368		
40									.585	.233	.127				.596	.237	.30	40	
									.563	.841	1.059				.486	.841	1.104		
35			.412	.260	.14				.403	.167	.16				.407	.216	.30	35	
			.424	.691	.863				.344	.526	.810				.303	.576	.888		
30		.123	.060	.5	.209	.089	.14		.440	.289	.17				.306	.245	.36	30	
		.169	.173	.178	.183	.243	.426		.316	.715	1.104				.173	.488	.967		
25																		25	
20		.208	.103	.8					.224	.129	.4				.337	.152	.11	20	
		.218	.328	.347					.173	.328	.425				.332	.458	.617		
15		.353	.223	.2												.353	.223	.2	15
		.353	.505	.567												.353	.505	.567	
10		.217	.025	.3					.155	.051	.15					.165	.053	.18	10
		.214	.238	.249					.157	.210	.247					.165	.223	.251	
5		.159		.1												.159		.1	5
0		.115	.036	.4												.115	.036	.4	0
		.119	.150	.151												.119	.150	.151	
5					.113	.046	.4									.113	.046	.4	5
					.103	.149	.180									.103	.149	.180	
10																			10
15												.153	.034	.2		.153	.034	.2	15
												.153	.176	.186		.153	.176	.186	
20																			20
25																			25
30																			30
35																			35
40				.656	.282	.60						.827	.422	.3		.664	.293	.63	40
				.620	.941	1.228						.812	1.179	1.330		.621	.953	1.271	
45S					.697	.208	.4		.432		1					.644	.214	.5	45S
					.660	.898	.972									.514	.870	.969	
	15E	60E	105E	150E	165W	120W	75W	30W	15E										

LONGITUDE

CODE: MEAN ST. DEV. N
 50% 84% 98%

JUNE
 FL 550

	MEAN												LAT		
70N														70N	
65						1.743	.179	12							65
						1.748	1.934	1.964							
60									1.511	.354	34				60
									1.463	1.872	2.282				
55									1.065	.309	26	1.334	.312	59	55
									1.052	1.418	1.499	1.299	1.607	2.020	
50												1.167	.246	31	50
												1.194	1.399	1.632	
45												1.020	.289	105	45
									.956	.343	16	1.010	1.307	1.777	
									.988	1.293	1.551	1.335	.386	10	
												1.403	1.635	1.909	
40												.858		1	40
												946	.253	29	
												958	1.159	1.441	
												.951	.262	109	
												.939	1.185	1.589	
												.880	.292	165	
												.953	1.232	1.680	
35												.789	.225	127	35
												.766	1.003	1.226	
												.683	.249	30	
												.677	.962	1.197	
												.572	.184	16	
												.561	.758	901	
												.547	.239	30	
												.448	.803	.985	
30												.404	.240	36	30
												.236	.642	.934	
25															
20															
												.462	.187	11	
												.402	.589	.885	
												.401	.227	23	
												.351	.536	1.031	
15												.656	.529	2	15
												.656	1.015	1.163	
10												.247	.144	18	10
												.203	.353	.586	
5												.206		1	5
0												.125	.042	4	0
												.127	.167	.169	
5												.156	.043	4	5
												.153	.190	.215	
10															
15												.254	.086	2	15
												.254	.312	.337	
20															
25															
30															
35															
40												.809	.286	60	40
												.783	1.095	1.483	
45S												.843	.145	4	45S
												.981	1.063	1.092	
												.862		1	
												.779	.252	3	
												.742	.988	1.090	
												.808	.285	63	
												.783	1.104	1.475	
												.926	.133	5	
												.933	1.052	1.091	
	15E	60E	105E	150E	165W	120W	75W	30W	15E						
	LONGITUDE														

CODE:

MEAN	ST. DEV.	N
50%	84%	98%

JUNE
FL 570

	MEAN										LAT			
70N											70N			
65					2.049	.220	.12					65		
60					2.053	2.288	2.337					60		
55					1.741	.365	.34					55		
50					1.640	2.117	2.451					50		
45					1.299	.279	.26	1.641	.343	.58	1.467	.367	.31	45
40					1.310	1.618	1.739	1.594	1.897	2.465	1.499	1.849	2.043	40
35											1.211	.334	.105	35
30											1.196	1.541	1.821	30
25														25
20					1.097	.329	.16	1.686	.458	.10	1.076		1	20
15					1.117	1.457	1.634	1.780	2.101	2.248	1.257	.280	.29	15
10											1.179	.261	.109	10
5											1.194	1.469	1.729	5
0														0
5											1.009	.243	.127	5
10											1.032	1.236	1.487	10
15														15
20														20
25														25
30														30
35														35
40														40
45S														45S
	15E	60E	105E	150E	165W	120W	75W	30W	15E					

CODE: MEAN ST. DEV. N
50% 84% 98%

JUNE
FL 590

		MEAN										LAT															
70N													70N														
65						2.297	.251	12					2.297	.251	12	65											
						2.356	2.547	2.617					2.356	2.547	2.617												
60									2.136	.305	34		2.136	.305	34	60											
									2.079	2.601	2.660		2.079	2.601	2.660												
55									1.561	.249	26	1.916	.330	56	1.768	.586	31	1.797	.426	115	55						
									1.537	1.836	1.926	1.861	2.165	2.612	1.565	2.553	2.822	1.751	2.165	2.753							
50															1.480	.322	105	1.480	.322	105	50						
															1.474	1.765	2.207	1.474	1.765	2.207							
45				1.375	.317	16			1.742	.310	10	1.396		1	1.520	.339	29	1.389	.253	109	1.432	.295	165	45			
				1.348	1.701	1.908			1.753	1.961	2.237				1.403	1.917	2.318	1.395	1.610	1.902	1.406	1.707	2.003				
40															1.269	.285	127				1.117	.319	30	40			
															1.265	1.516	1.918				1.030	1.408	1.768	1.223	1.515	1.911	
35				.928	.404	14									1.107	.210	16				1.023	.328	30	35			
				.843	1.218	1.747									1.133	1.327	1.403				.953	1.328	1.606				
30				.444	.237	5			.734	.234	14				1.114	.313	17				.873	.369	36	30			
				.520	.647	.745			.757	.952	1.116				1.059	1.357	1.806				.688	1.170	1.609				
25																								25			
20				.560	.145	8			.696	.187	4				.700	.152	11				.651	.170	23	20			
				.572	.661	.794			.698	.839	.944				.728	.886	.909				.661	.842	.938				
15				1.261	.862	2															1.261	.862	2	15			
				1.261	1.847	2.089															1.261	1.847	2.089				
10				.602	.152	3			.466	.236	15				.466	.236	15				.489	.230	18	10			
				.703	.713	.716			.438	.702	.953				.438	.702	.953				.440	.718	.946				
5				.446		1															.446		1	5			
0				.302	.067	4															.302	.067	4	0			
				.268	.349	.408															.268	.349	.408				
5									.502	.164	4										.502	.164	4	5			
									.547	.650	.659										.547	.650	.659				
10																								10			
15															.613	.040	2				.613	.040	2	15			
															.613	.640	.651				.613	.640	.651				
20																								20			
25																								25			
30																								30			
35																								35			
40																								40			
																					1.312	.400	63				
																					1.325	1.695	2.159				
45S																					1.351	.159	5	45S			
																					1.446	1.486	1.523				
	15E	60E	105E	150E	165W	120W	75W	30W	15E																		

LONGITUDE

CODE:

MEAN	ST. DEV.	N
50%	84%	98%

JULY
FL 190

		MEAN												LAT		
70N																70N
65																65
60																60
55																55
50																50
45																45
40																40
35																35
30																30
25																25
20																20
15																15
10																10
5																5
0																0
5																5
10																10
15																15
20																20
25																25
30																30
35																35
40																40
45S																45S
	15E	60E	105E	150E	165W	120W	75W	30W	15E							

LONGITUDE

JULY
FL 210

CODE:	MEAN	ST. DEV.	N
	50%	84%	98%

		MEAN												LAT				
70N																		
						.055	.018	.21							.055	.018	.21	65
65						.054	.076	.084							.054	.076	.084	60
60									.054	.019	.38				.054	.019	.38	55
55									.057	.071	.083				.057	.071	.083	50
50									.062	.029	.30	.061	.019	.67	.057	.014	.25	45
45									.059	.078	.130	.062	.077	.099	.059	.069	.087	40
40												.068	.024	.134	.068	.023	.138	35
35						.053		1	.049	.071	.081				.064	.090	.122	30
30									.041	.015	.8	.061	.019	.36	.069	.061	.117	25
25						.075	.023	.20	.047	.055	.074	.064	.079	.089	.063	.073	.098	20
20	.033	1							.046	.014	.13	.061	.019	.36	.069	.061	.117	15
15									.107		1	.053	.025	.9	.074	.020	.31	10
10									.061	.021	.102	.056	.068	.093	.076	.090	.114	5
5									.060	.082	.097							0
0									.057	.028	.3	.052	.026	.27	.053	.024	.36	5
5									.046	.079	.093	.045	.062	.110	.047	.079	.105	0
10												.058	.020	.23	.040	.073	.090	5
15												.060	.072	.087	.060	.066	.069	0
20															.060	.010	.2	5
25	.069	1													.060	.066	.069	0
30															.048	.018	.30	5
35									.040	.010	.12	.035	.015	.4	.039	.067	.080	0
40									.039	.051	.055	.029	.046	.058				5
45																		0
50																		5
55																		0
60																		5
65																		0
70N																		5

LONGITUDE

CODE:

MEAN	ST. DEV.	N
50%	84%	98%

JULY
FL 230

		MEAN												LAT								
70N															70N							
65						.059	.027	21							.059	.027	21	65				
						.055	.077	.127							.055	.077	.127					
60									.057	.022	38				.057	.022	38	60				
									.058	.077	.103				.058	.077	.103					
55									.062	.026	30	.065	.019	67	.059	.018	25	55				
									.059	.080	.125	.064	.081	.103	.061	.072	.098	.063	.021	122		
50									.059	.015	3				.073	.027	135	50				
									.051	.071	.079				.068	.100	.130	.072	.027	138		
45			.077	.023	20		.046	.015	13	.039	.018	9	.064	.019	37	.069	.043	117	.066	.036	196	
			.081	.101	.114		.047	.059	.075	.032	.057	.072	.067	.080	100	.067	.080	106	.068	.099	130	
40	.063	1					.051	1		.062	.024	98	.056	.028	6	.076	.022	31	.065	.024	137	
										.064	.084	.101	.062	.080	.092	.079	.096	.119	.066	.088	116	
35			.061	.017	6		.033	.009	2	.048	.016	22							.049	.017	30	
			.065	.078	.079		.033	.039	.042	.047	.063	.082							.047	.067	.084	
30		.038	.022	7	.060	.022	16					.063	.022	23				.058	.024	46		
		.026	.060	.070	.056	.060	.107					.063	.085	.096				.043	.080	.099		
25																						
20		.041	.011	13					.057	.020	4				.055	.018	14	.049	.017	31		
		.037	.052	.059					.060	.071	.080				.061	.072	.076	.052	.068	.078		
15					.026	.012	2											.026	.012	2		
					.026	.033	.037											.026	.033	.037		
10		.068	.011	4								.043	.034	68				.044	.033	72		
		.067	.078	.083								.038	.053	.071				.039	.055	.079		
5		.027	.007	3														.027	.007	3		
		.025	.033	.037														.025	.033	.037		
0		.030	.010	8														.030	.010	8		
		.030	.035	.049														.029	.035	.049		
5						.012	.001	2										.012	.001	2		
						.012	.013	.013										.012	.013	.013		
10																						
15												.014		1				.014		1		
20																						
25																						
30					.051		1											.051		1		
35						.072	.023	4										.072	.023	4		
						.071	.092	.103										.071	.092	.103		
40		.039	.010	58										.030	.004	3				.039	.010	61
		.037	.049	.066										.030	.033	.035				.036	.049	.065
45S					.046	.006	2											.046	.006	2		
					.046	.049	.051											.046	.049	.051		
	15E	60E	105E	150E	165W	120W	75W	30W	15E													
	LONGITUDE																					

CODE:

MEAN	ST. DEV.	N
50%	84%	98%

JULY
FL 250

		MEAN												LAT										
70N															70N									
65					.064	.024	.21								.064	.024	.21	65						
					.063	.087	.119								.063	.087	.119							
60								.058	.022	.38					.058	.022	.38	60						
								.059	.081	.098					.059	.081	.098							
55								.067	.030	.30	.067	.021	.67	.062	.021	.25	.066	.024	.122	55				
								.062	.092	.145	.065	.084	.112	.064	.076	.110	.062	.064	.124					
50								.060	.013	.3				.077	.030	.125	.077	.030	.128	50				
								.053	.070	.077				.071	.107	.159	.071	.106	.158					
45	.087	1		.079	.025	.20	.053	.017	.13	.065	.024	.9	.071	.020	.34	.070	.026	.119	.070	.025	.196	45		
				.082	.099	.124	.055	.064	.085	.067	.087	.102	.070	.087	.124	.071	.084	.112	.066	.087	.122			
40							.047	.016	.3	.066	.025	.99	.076	.016	.4	.079	.023	.31	.069	.025	.137	40		
							.059	.059	.059	.069	.090	.106	.069	.087	.101	.077	.105	.124	.069	.092	.118			
35				.063	.014	.8				.047	.014	.21							.051	.015	.27	35		
				.063	.077	.082				.052	.058	.070							.052	.065	.079			
30		.039	.022	.7	.061	.021	.16				.064	.023	.23							.059	.023	.46	30	
		.029	.052	.056	.060	.079	.099				.057	.087	.096							.044	.064	.097		
25				.042		1													.042		1	25		
20		.042	.013	.13			.049	.030	.5				.055	.021	.14				.049	.021	.32	20		
		.040	.058	.064			.032	.071	.102				.060	.075	.088				.040	.065	.097			
15		.013		1															.013		1	15		
10		.072	.013	.4						.040	.014	.68							.042	.016	.72	10		
		.071	.084	.089						.037	.054	.070							.038	.057	.077			
5		.024	.008	.3															.024	.008	.3	5		
		.019	.030	.034															.019	.030	.034			
0		.032	.009	.8															.032	.009	.8	0		
		.034	.040	.043															.034	.040	.043			
5					.012	0.000	.2													.012	0.000	.2	5	
					.012	.012	.012													.012	.012	.012		
10																							10	
15												.020	1							.020		1	15	
20					.031		1													.031		1	20	
25																							25	
30																							30	
35					.062	.016	.2													.062	.016	.2	35	
					.062	.072	.076													.062	.072	.076		
40		.042	.013	.58	.042	.053	.071					.033	.005	.3	.042	.013	.61	.039	.053	.071	.042	.013	.61	40
		.040										.036	.037	.037	.039						.036	.037	.037	
45S					.046	.006	.2													.046	.006	.2	45S	
					.046	.050	.052													.046	.050	.052		
	15E	60E	105E	150E	165W	120W	75W	30W	15E															

LONGITUDE

CODE:

MEAN	ST. DEV.	N
50%	84%	98%

JULY
FL 270

		MEAN										LAT											
70N													70N										
65						.073	.038	.21				.073	.038	.21	65								
						.060	.108	.162				.060	.108	.162									
60									.064	.028	.38	.064	.028	.38	60								
									.064	.087	.122	.062	.086	.148									
55									.067	.032	.30	.073	.027	.67	55								
									.062	.086	.148	.088	.095	.150	.071	.031	.26						
50									.061	.010	.3	.078	.030	.130	.078	.030	.133	50					
									.056	.069	.074	.072	.104	.149	.067	.091	.163	.072	.104	.149			
45			.083	.027	.20	.055	.020	.13	.060	.021	.10	.079	.031	.35	.073	.025	.117	.073	.027	.195	45		
			.086	.102	.135	.059	.074	.087	.055	.083	.099	.076	.104	.163	.070	.091	.124	.069	.092	.138	.069	.092	.138
40	.070	1							.068	.027	.96	.076	1	.082	.025	.31	.071	.027	.129	.071	.027	.129	40
									.070	.098	.123			.077	.111	.129	.070	.099	.127	.070	.099	.127	
35	.077	.014	4			.073	.018	.5	.052	.017	.20					.061	.022	.32	.061	.022	.32	35	
	.073	.090	.098			.081	.088	.091	.053	.075	.079					.056	.081	.109	.056	.081	.109		
30		.040	.020	7		.061	.020	.16			.065	.023	.23			.060	.023	.45	.060	.023	.45	30	
		.032	.063	.064		.084	.074	.098			.064	.088	.100			.045	.084	.102	.045	.084	.102		
25	.077	1														.077	1		.077	1		25	
20		.043	.014	17		.030	1		.051	.012	.2			.055	.019	.14	.048	.017	.34	.048	.017	.34	20
		.040	.056	.072					.051	.059	.063			.063	.071	.077	.031	.067	.077	.031	.067	.077	
15		.023	.002	4												.023	.002	.4	.022	.024	.024	15	
		.023	.024	.024												.022	.024	.024					
10		.076	.014	4		.018	1		.043	.015	.67					.044	.017	.72	.041	.059	.090	10	
		.076	.089	.094					.042	.056	.074					.041	.059	.090					
5		.022	.010	3												.022	.010	.3	.015	.029	.035	5	
		.015	.029	.035												.015	.029	.035					
0		.035	.014	7		.029	1									.034	.013	.8	.030	.052	.056	0	
		.034	.054	.056												.030	.052	.056					
5						.013	.002	.2								.013	.002	.2	.013	.014	.014	5	
						.013	.014	.014								.013	.014	.014					
10																						10	
15												.026	1			.026	1					15	
20																						20	
25																						25	
30						.054	.003	.2								.054	.003	.2	.054	.055	.056	30	
						.054	.055	.056								.054	.055	.056					
35						.062	1		.065	.017	.2					.064	.014	.3	.062	.076	.081	35	
									.065	.077	.081					.062	.076	.081					
40						.046	.018	.58						.049	.012	.3	.046	.018	.61	.041	.060	.099	40
						.041	.059	.099						.042	.056	.065	.041	.060	.099				
45S						.050	.009	.2								.050	.009	.2	.050	.055	.058	45S	
						.050	.055	.058								.050	.055	.058					
	15E	60E	105E	150E	165W	120W	75W	30W	15E														
	LONGITUDE																						

CODE:

MEAN	ST. DEV.	N
50%	84%	98%

JULY
FL 290

		MEAN												LAT						
70N															70N					
65														.096 .055 .22 .085 .138 .230	.089 .018 .4 .084 .104 .117	.075 .011 .2 .075 .082 .085	.093 .049 .28 .075 .131 .219	65		
60														.071 .036 .38 .062 .093 .161	.130 .013 .2 .130 .138 .142	.069 .095 .2 .069 .072 .073	.074 .037 .42 .062 .093 .156	60		
55														.075 .047 .30 .066 .093 .217	.082 .050 .67 .072 .102 .281	.079 .060 .27 .070 .084 .247	.080 .051 .124 .070 .096 .278	55		
50														.062 .008 .3 .058 .069 .073			.080 .032 .131 .074 .107 .164	.080 .031 .134 .074 .106 .164	50	
45	.085 .030 .10 .087 .105 .140													.089 .034 .20 .094 .110 .153	.076 .041 .14 .074 .108 .163	.058 .020 .10 .064 .079 .085	.085 .037 .35 .071 .095 .174	.077 .035 .121 .069 .105 .179	.079 .036 .210 .069 .105 .179	45
40	.071 .022 .9 .065 .087 .117													.078 .031 .3 .094 .102 .106	.079 .071 .105 .072 .100 .147	.086 .042 .6 .103 .114 .126	.088 .029 .31 .078 .129 .148	.081 .061 .154 .071 .103 .147	40	
35	.068 .045 .14 .054 .072 .189													.073 .019 .5 .081 .091 .091	.055 .020 .6 .052 .077 .082	.060 .026 .25 .055 .076 .122		.063 .032 .90 .040 .083 .133	35	
30	.067 .001 .2 .067 .068 .068	.041 .018 .7 .035 .059 .061												.058 .019 .16 .060 .074 .085			.071 .028 .23 .069 .107 .120		.062 .026 .48 .048 .084 .119	30
25	.057 .022 .4 .053 .075 .089	.092 .1												.057 .007 .2 .057 .061 .063	.036 .015 .5 .030 .054 .055			.046 .019 .12 .038 .058 .085	.046 .020 .45 .044 .069 .092	25
20		.040 .017 .20 .039 .051 .076												.044 .1	.041 .014 .10 .043 .054 .063		.059 .022 .14 .066 .074 .092		.046 .020 .45 .044 .069 .092	20
15		.020 .003 .3 .020 .023 .024												.038 .006 .5 .041 .043 .044	.027 .1	.019 .1		.030 .010 .10 .027 .042 .044	15	
10		.045 .028 .12 .029 .075 .098												.026 .012 .4 .026 .038 .040		.047 .019 .67 .045 .059 .103		.046 .021 .83 .043 .060 .105	10	
5		.022 .007 .7 .019 .025 .036												.013 .002 .2 .013 .014 .014				.020 .007 .9 .019 .023 .036	5	
0		.040 .012 .8 .040 .054 .057												.012 .003 .4 .012 .015 .017				.030 .017 .12 .027 .050 .057	0	
5														.015 .003 .6 .015 .018 .019	.013 .002 .2 .013 .014 .015			.015 .003 .8 .015 .018 .019	5	
10														.018 .004 .3 .016 .021 .023				.018 .004 .3 .016 .021 .023	10	
15														.029 .006 .3 .026 .033 .037	.019 .1	.033 .1		.028 .006 .5 .026 .034 .037	15	
20																			20	
25														.055 .008 .5 .059 .061 .064				.055 .008 .5 .058 .061 .064	25	
30														.042 .013 .8 .049 .052 .056				.042 .013 .8 .049 .052 .056	30	
35														.045 .009 .2 .045 .051 .054	.093 .1			.061 .024 .3 .054 .081 .091	35	
40														.056 .033 .58 .045 .085 .133			.075 .052 .3 .042 .114 .144	.057 .035 .61 .045 .087 .146	40	
45S														.058 .016 .2 .058 .069 .073				.058 .016 .2 .058 .069 .073	45S	
	15E	60E	105E	150E	165W	120W	75W	30W	15E											

LONGITUDE

CODE: MEAN ST. DEV. N
 50% 84% 98%

JULY
 FL 310

		MEAN												LAT										
70N															70N									
65						.131	.103	.21				.088	.008	.2	.088	.016	.5	.120	.092	.28	65			
60						.095	.196	.416				.079	.126	.230	.109	.016	.4	.100	.020	.8	.091	.049	.50	60
55												.087	.056	.32	.102	.073	.69	.114	.088	.44	.102	.075	.145	55
50												.070	.108	.247	.084	.132	.371	.085	.139	.367	.081	.129	.364	50
45						.078	.026	.4				.073	.024	.5	.126	.068	.6	.097	.052	.140	.097	.052	.155	45
40	.193	.106	.2			.094	.037	.20				.095	.070	.16	.083	.035	.28	.088	.059	.43	.089	.050	.118	40
35	.093	.040	.4			.095	.118	.175				.074	.137	.267	.078	.109	.169	.071	.098	.236	.081	.113	.245	35
30	.055	.014	.16			.058	.024	.12				.067	.032	.18	.060	.024	.21				.080	.025	.67	30
25	.057	.010	.10			.056	.019	.16				.063	.106	.124	.052	.074	.120				.084	.027	.124	25
20	.052	.065	.068			.048	.059	.090				.051	.023	.5	.071	.026	.23				.059	.023	.70	20
15	.055	.014	.6			.036	.010	.9				.047	.072	.086	.069	.103	.114				.053	.080	.110	15
10	.043	.017	.22			.035	.044	.053				.039	.020	.11	.034	.046	.064				.043	.017	.28	10
5	.043	.059	.060			.013		.1				.058	.004	.2	.038	.012	.25				.058	.023	.14	5
0						.023	.013	.4				.017	.001	.2	.053		.1				.058	.073	.105	0
5						.019	.034	.042				.017	.018	.018							.046	.019	.71	5
10	.074	.027	.5			.009		.1				.021		.1	.048	.017	.67				.046	.066	.089	10
5	.029	.009	.3																		.029	.009	.3	5
0	.043	.012	.8																		.028	.037	.040	0
5	.043	.055	.057																		.030	.003	.2	5
10	.020		.1			.028	.006	.2				.032		.1	.030	.031	.032				.040	.012	.10	10
15						.028	.032	.034				.012	.003	.2							.040	.055	.057	15
20						.020	.003	.5													.022	.009	.6	20
25						.021	.022	.022													.019	.032	.034	25
30						.027	.005	.5													.020	.009	.5	30
35						.029	.031	.035													.021	.022	.022	35
40						.030	.004	.12													.037		.1	40
45S						.027	.005	.5													.029	.006	.6	45S
						.030	.004	.12													.027	.035	.037	
						.045	.020	.15													.028	.005	.15	
						.039	.070	.085				.021	.004	.3							.029	.033	.036	
						.045	.020	.15				.023	.001	.2							.043	.021	.17	
						.065	.022	.16				.024	.024	.024							.035	.069	.084	
						.057	.091	.104				.052	.033	.3							.043	.021	.17	
						.057	.142	.165				.029	.076	.095							.053	.093	.104	
						.083	.044	.8				.048	.031	.3							.063	.024	.19	
						.057	.142	.165				.044	.074	.086							.055	.093	.104	
						.078	.062	.59													.074	.044	.11	
						.052	.116	.236													.057	.113	.164	
																					.079	.062	.62	
																					.053	.119	.235	
																					.101	.060	.3	
																					.070	.148	.180	
																					.086	.047	.2	
																					.086	.117	.130	

JULY
FL 330

CODE:	MEAN	ST. DEV.	N
	50%	84%	98%

											MEAN			LAT
70N											.435	.161	7	70N
											.534	.586	.590	
65											.089	.019	2	65
											.188	.015	2	
60											.128	.091	45	60
											.209	.059	6	
55											.251	.175	2	55
											.082	1		
50											.110	.083	32	50
											.078	.194	.346	
45											.151	.114	84	45
											.103	.269	.429	
40											.162	.139	52	40
											.101	.366	.488	
35											.131	.093	190	35
											.097	.175	.405	
30											.111	.080	234	30
											.085	.154	.355	
25											.067	.044	190	25
											.078	.121	.201	
20											.066	.040	106	20
											.057	.093	153	
15											.064	.032	126	15
											.046	.093	134	
10											.052	.033	41	10
											.045	.075	.143	
5											.122	.020	4	5
											.050	.026	85	
0											.047	.075	.108	0
5											.037	.023	20	5
											.024	.056	.091	
10											.050	.021	78	10
											.049	.066	.103	
15											.028	.012	9	15
											.028	.043	.048	
20											.033	.016	19	20
											.030	.058	.061	
25											.021	.008	14	25
											.020	.023	.032	
30											.028	.007	15	30
											.029	.034	.037	
35											.030	.008	14	35
											.026	.038	.047	
40											.037	.012	22	40
											.033	.050	.057	
45S											.056	.020	18	45S
											.045	.072	.102	
											.071	.029	22	
											.045	.104	.132	
											.099	.100	20	
											.060	.128	.375	
											.109	.089	62	
											.083	.189	.389	
											.135	.083	2	
											.135	.191	.214	

LONGITUDE

CODE:

MEAN	ST. DEV.	N
50%	84%	98%

JULY
FL 390

	MEAN															LAT						
70N										.584	.085	7	.559	.072	10		.569	.079	17	70N		
65				.414	.016	3	.426	.171	89	.541	.103	30	.445	.167	21	.591	.002	2	.455	.163	145	65
60				.412	.146	51	.357	.156	52	.439	.167	70	.476	.135	58	.389	.161	21	.421	.159	252	60
55				.442	.546	610	.361	.538	605	.461	.583	747	.502	.629	667	.353	.583	610	.383	.576	657	55
50				.366	.154	29	.315	.120	19	.377	.177	68	.348	.180	90	.272	.140	71	.335	.168	277	50
				.368	.532	613	.320	.372	568	.408	.562	634	.324	.535	674	.257	.414	548	.320	.532	648	
45				.243	.189	55	.338	.195	43	.285	.194	23	.191	.143	25	.268	.138	144	.268	.167	290	45
				.178	.493	558	.366	.543	584	.215	.526	574	.114	.322	532	.251	.405	575	.147	.483	574	
				.143	.128	22	.183	.151	38	.249	.186	35	.187	.175	14	.240	.142	122	.212	.156	292	
				.093	.203	499	.116	.358	554	.198	.415	671	.100	.447	524	.126	.320	576	.126	.388	555	
40	.061	.006	4	.084	.028	8	.110	.068	23	.152	.113	11	.109	.068	150	.105	.003	2	.114	.072	31	40
	.064	.065	085	.083	.116	118	.084	.188	275	.069	.262	330	.092	.143	315	.105	.107	108	.094	.159	336	
35	.099	.013	2	.106	.087	12	.069	.013	9	.072	.038	12	.082	.043	39	.111	.036	2	.084	.051	76	35
	.088	.108	111	.079	.131	321	.071	.078	091	.059	.130	136	.074	.104	219	.111	.135	145	.052	.112	222	
30	100		1	.056	.022	9	.070	.024	16	.102	.095	29	.092	.040	28	.077	.001	2	.087	.063	85	30
				.060	.075	093	.075	.090	107	.066	.170	382	.095	.130	172	.077	.078	078	.075	.128	258	
25				.053	.007	3	.043	.004	3	.080	.099	16	.132	.010	3				.079	.083	25	25
				.032	.059	062	.046	.046	046	.055	.072	360	.130	.140	144				.053	.122	316	
20				.056	.031	13	.038	.005	4	.037	.014	6	.117		1	.077	.025	14	.060	.030	38	20
				.047	.079	119	.039	.043	046	.039	.051	054				.074	.101	124	.052	.090	124	
15				.027	.001	3	.027	.001	3	.041	.018	5							.036	.016	8	15
				.028	.028	029	.028	.028	029	.043	.055	060							.025	.051	060	
10				.113	.015	4				.039	.013	7							.056	.029	78	10
				.119	.125	127				.031	.044	065							.050	.077	124	
5				.044	.017	3				.053	.009	8							.051	.012	11	5
				.042	.058	065				.051	.060	070							.049	.063	071	
0				.076	.048	7				.038	.026	10							.054	.041	17	0
				.061	.076	176				.033	.060	090							.044	.072	159	
5							.010	0.000	2	.035	.014	8							.030	.016	10	5
							.010	.010	010	.041	.049	050							.034	.048	050	
10							.028	.018	8	.035	.021	4							.030	.019	12	10
							.031	.044	054	.039	.054	057							.026	.050	057	
15							.026	.021	7				.046		1				.028	.020	8	15
							.028	.032	064										.030	.044	065	
20							.038	.028	4										.038	.028	4	20
							.028	.061	080										.028	.061	080	
25							.044	.061	4										.044	.061	4	25
							.011	.083	141										.011	.083	141	
30				.160	.013	4	.044	.050	3										.110	.067	7	30
				.152	.179	177	.010	.061	111										.144	.167	177	
35				.221	.134	3	.141	.082	10										.160	.102	13	35
				.128	.320	400	.148	.235	248										.128	.238	379	
40				.270	.136	58							.260	.070	3	.269	.133	61	.265	.393	549	40
				.262	.399	550							.276	.317	334	.305	.465	531	.305	.465	531	45S

LONGITUDE

CODE:

MEAN	ST. DEV.	N
50%	84%	98%

JULY
FL 410

		MEAN												LAT		
70N															70N	
65						.526	.229	.25		.502						65
						.504	.631	1.115								
60										409	167	46	486	120	36	60
										434	540	816	521	607	684	
55													350	125	17	55
													340	467	592	
50										396	140	14	420	171	90	50
										460	518	551	427	552	631	
45													384	180	54	45
													427	552	631	
40										253	109	27	225	185	4	40
										239	370	469	133	351	521	
35													283	174	54	35
													421	531	577	
30													298	160	12	30
													277	422	609	
25													305	145	130	25
													310	454	586	
20													292	152	227	20
													278	437	586	
15													246	150	313	15
													213	404	565	
10													246	134	120	10
													247	402	555	
5													246	134	120	5
													247	402	555	
0													246	134	120	0
													247	402	555	
5S													246	134	120	5S
													247	402	555	
10S													246	134	120	10S
													247	402	555	
15S													246	134	120	15S
													247	402	555	
20S													246	134	120	20S
													247	402	555	
25S													246	134	120	25S
													247	402	555	
30S													246	134	120	30S
													247	402	555	
35S													246	134	120	35S
													247	402	555	
40S													246	134	120	40S
													247	402	555	
45S													246	134	120	45S
													247	402	555	

LONGITUDE

CODE:

MEAN	ST. DEV.	N
50%	84%	98%

JULY
FL 430

	MEAN												LAT											
70N														70N										
65					.623	.187	.21							.623	.187	.21	65							
60					.472	.225	.38							.472	.225	.38	60							
55				.249	.009	.2		.383	.131	.30	.436	.162	.70	.335	.197	.25	.402	.168	.127	55				
50				.257	.024	.3		.177	.092	.3	.246	.079	.12	.333	.154	.122	.321	.150	.140	50				
45				.249	.177	.23	.344	.078	.4	.434	.209	.17	.198	.151	.12	.257	.162	.45	.299	.133	.117	45		
40				.262	.133	.11	.352	.415	.436	.431	.558	.902	.145	.266	.566	.227	.454	.604	.284	.449	.600	40		
35				.146	.119	.6							.129	.070	.94	.314		.1	.191	.118	.31	35		
30				.079	.035	.7							.072	.119	.141				.074	.137	.305	30		
25				.067	.040	.12							.103	.049	.23				.090	.049	.45	25		
20				.054	.108	.147				.042		1				.119	.032	.14	.093	.044	.27	20		
15																			.097	.144	.169	15		
10				.130	.021	.4							.065	.036	.67				.069	.039	.71	10		
5				.042	.014	.3							.057	.077	.184				.033	.053	.061	5		
0				.085	.058	.7													.061	.103	.204	0		
5							.017	0.000	.2										.017	0.000	.2	5		
10							.017	.017	.017										.017	.017	.017	10		
15													.060		.1				.060		.1	15		
20																						20		
25																						25		
30																						30		
35							.377	.183	.15										.369	.573	.700	35		
40							.335	.162	.58										.316	.490	.695	40		
45S							.265	.118	.2										.265	.344	.377	45S		
	15E	60E	105E	150E	165W	120W	75W	30W	15E															

LONGITUDE

CODE:	MEAN	ST. DEV.	N
	50%	84%	98%

JULY
FL 450

		MEAN											LAT							
70N															70N					
65					.663	.207	.21							.663	.207	.21	65			
					.591	.772	1.208							.591	.772	1.208				
60						.515	.230	.38						.515	.230	.38	60			
						.483	.679	1.169						.483	.679	1.169				
55						.404	.133	.29						.404	.133	.29	55			
						.428	.542	.601				.476	.168	.70	.379	.219	.25			
												.463	.617	.858	.311	.654	.720			
50						.265	.090	.3				.474	.019	.3	.370	.156	.122	50		
						.223	.337	.383				.461	.488	.499	.369	.521	.698			
45					.272	.162	.20					.273	.156	.37	.328	.140	.117	45		
					.250	.415	.596				.510	.199	.13	.236	.146	.8	.324	.483	.698	
											.503	.719	.832	.198	.379	.502	.224	.437	.614	
40						.256	1				.145	.087	.92	.346	1	.215	.119	.31	40	
											.121	.215	.384			.191	.333	.467		
35					.112	.016	.3				.080	.033	.17			.085	.033	.20	35	
					.118	.125	.129				.080	.116	.141			.084	.116	.141		
30					.092	.046	.7				.141	.128	.23			.114	.098	.46	30	
					.081	.131	.163				.104	.183	.335			.062	.155	.478		
25																			25	
20					.078	.045	.12				.048	1				.115	.057	.27	20	
					.055	.122	.168									.109	.179	.207		
15																			15	
10					.139	.025	.4				.073	.035	.67			.077	.038	.71	10	
					.148	.158	.162				.064	.091	.165			.065	.100	.169		
5					.051	.011	.3									.051	.011	.3	5	
					.052	.061	.064									.052	.061	.064		
0					.107	.083	.7									.107	.083	.7	0	
					.090	.126	.279									.090	.126	.279		
5								.021	.001	.2						.021	.001	.2	5	
								.021	.021	.021						.021	.021	.021		
10																			10	
15													.068	1		.068	1		15	
20																			20	
25																			25	
30																			30	
35																			35	
40					.371	.197	.58							.325	.072	.3	.369	.193	.61	40
					.342	.598	.807							.347	.383	.398	.347	.594	.804	
45S								.253	.072	.2						.253	.072	.2	45S	
								.253	.301	.321						.253	.301	.321		

LONGITUDE

CODE: MEAN ST. DEV. N
50% 84% 98%

JULY
FL 470

		MEAN												LAT						
70N																70N				
65						.703	.213	21								.703	.213	21		
						.661	.881	1.147								.661	.881	1.147		
60									.571	.207	38					.571	.207	38		
									.547	.741	.990					.547	.741	.990		
55									.447	.114	29	.550	.166	87	.478	.225	25	.510	.176	121
									.452	.560	.642	.536	.676	.935	.468	.723	.864	.501	.668	.910
50									.315	.068	3				.425	.164	122	.423	.163	125
									.279	.368	.405				.429	.581	.725	.425	.581	.723
45			.314	.165	20	.559	.256	13	.272	.191	8	.315	.162	34	.369	.142	117	.362	.171	192
			.302	.485	.603	.533	.738	1.076	.202	.440	.647	.276	.482	.886	.361	.514	.668	.314	.518	.737
40									.192	.095	91				.231	.126	31	.202	.105	122
									.168	.280	.468				.203	.343	.544	.165	.283	.510
35			.127	.013	3				.092	.038	17							.098	.037	20
			.128	.138	.142				.086	.130	.163							.083	.138	.162
30		.109	.057	7	.103	.035	16		.181	.187	23							.143	.141	46
		.100	.152	.200	.099	.137	.177		.132	.209	.769							.078	.182	.749
25																				
20		.106	.054	12				.056			1	.162	.065	14				.133	.067	27
		.096	.141	.218								.145	.253	.258				.115	.220	.258
15																				
10		.154	.025	4					.086	.042	67							.090	.044	71
		.156	.175	.184					.077	.109	.203							.077	.116	.205
5		.100	.010	3														.100	.010	3
		.099	.109	.112														.099	.109	.112
0		.133	.106	7														.133	.106	7
		.085	.146	.355														.085	.146	.355
5						.024	.002	2										.024	.002	2
						.024	.025	.026										.024	.025	.026
10																				
15												.078		1				.078		1
20																				
25																				
30																				
35																				
40			.428	.205	58							.340	.039	3				.424	.201	61
			.415	.667	.813							.349	.372	.382				.400	.666	.810
45S						.364	.210	2										.364	.210	2
						.364	.506	.565										.364	.506	.565
	15E	60E	105E	150E	165W	120W	75W	30W	15E											
	LONGITUDE																			

CODE: MEAN ST. DEV. N
50% 84% 98%

JULY
FL 490

		MEAN										LAT	
70N												70N	
65					.880 .276 .21 .774 1.065 1.514							.880 .276 .21 .774 1.065 1.514	65
60						.697 .225 .38 .671 .883 1.287						.697 .225 .38 .671 .883 1.287	60
55						.547 .130 .29 .558 .674 .817	.651 .168 .67 .664 .785 1.000	.578 .239 .25 .594 .826 .997				.611 .183 .121 .599 .774 1.000	55
50						.342 .078 .3 .335 .407 .437			.505 .188 .122 .516 .663 .813			.501 .187 .125 .516 .663 .813	50
45		.358 .167 .20 .378 .522 .633			.620 .227 .13 .648 .812 .980	.421 .295 .8 .317 .783 .950	.395 .142 .34 .387 .565 .626	.441 .145 .117 .437 .595 .739				.435 .172 .192 .392 .600 .851	45
40						.254 .116 .91 .230 .369 .502			.260 .129 .30 .239 .417 .531			.255 .120 .121 .233 .395 .515	40
35			.145 .010 .3 .148 .153 .156			.117 .058 .17 .106 .132 .262						.122 .055 .20 .113 .156 .258	35
30		.127 .068 .7 .120 .172 .238	.137 .053 .16 .118 .211 .237			.231 .182 .23 .162 .230 .755						.183 .144 .46 .106 .238 .580	30
25													25
20		.129 .066 .12 .123 .168 .267			.064 .1		.189 .096 .14 .157 .262 .406					.158 .089 .27 .141 .240 .364	20
15													15
10		.172 .021 .4 .165 .191 .204				.104 .043 .67 .094 .125 .249						.107 .045 .71 .095 .137 .246	10
5		.102 .037 .3 .124 .129 .132										.102 .037 .3 .124 .129 .132	5
0		.140 .092 .7 .107 .189 .327										.140 .092 .7 .107 .189 .327	0
5				.028 .004 .2 .028 .031 .032								.028 .004 .2 .028 .031 .032	5
10													10
15							.089 .1					.089 .1	15
20													20
25													25
30													30
35													35
40			.528 .283 .58 .459 .727 1.257					.437 .026 .3 .433 .459 .469				.523 .277 .61 .458 .726 1.253	40
45S				.496 .328 .2 .496 .718 .810								.496 .328 .2 .496 .718 .810	45S
	15E	60E	105E	150E	165W	120W	75W	30W	15E				

LONGITUDE

CODE:

MEAN	ST. DEV.	N
50%	84%	98%

JULY
FL 510

		MEAN												LAT	
70N															70N
65															65
60															60
55															55
50															50
45															45
40															40
35															35
30															30
25															25
20															20
15															15
10															10
5															5
0															0
5															5
10															10
15															15
20															20
25															25
30															30
35															35
40															40
45S															45S
	15E	60E	105E	150E	165W	120W	75W	30W	15E						

LONGITUDE

CODE: MEAN ST. DEV. N
50% 84% 98%

JULY
FL 530

	MEAN									LAT			
70N											70N		
65					1.194	.301	.21			1.194	.301	.21	65
					1.246	1.454	1.716			1.246	1.454	1.716	
60										998	.262	.38	60
										938	1.170	1.610	
55										825	.173	.29	55
										835	.969	1.221	
50										990	.210	.67	50
										993	1.178	1.405	
45										.803	.206	.25	45
										.819	1.036	1.091	
40										.717	.190	.122	40
										.735	.902	1.119	
35										.622	.355	.20	35
										.586	.740	1.540	
30										1.042	.232	.13	30
										1.068	1.230	1.441	
25										.641	.260	.8	25
										.757	.796	.948	
20										673	.192	.34	20
										677	.803	1.122	
15										.650	.184	.117	15
										.650	.838	1.002	
10										.412	.178	.30	10
										.405	.613	.731	
5										.438	.160	.121	5
										.406	.570	.783	
0										.277	.085	.20	0
										.255	.385	.427	
5										.357	.045	.3	5
										.326	.390	.416	
10										.170	.097	.7	10
										.159	.257	.319	
15										.245	.122	.16	15
										.203	.317	.551	
20										.431	.175	.23	20
										.395	.592	.813	
25													25
20										.223		.1	20
15										.262	.082	.14	15
										.243	.310	.456	
10													10
										.145	.048	.67	
5										.139	.164	.278	5
0										.281	.187	.3	0
										.198	.431	.526	
5										.176	.087	.7	5
										.125	.274	.337	
10										.074	.015	.2	10
										.074	.083	.087	
15													15
										.117		.1	
20													20
25													25
30													30
35													35
40										.797	.345	.58	40
										.746	1.164	1.492	
45S										.624	.025	.3	45S
										.606	.643	.659	
										.773	.484	.2	
										.773	1.102	1.238	
	15E	60E	105E	150E	165W	120W	75W	30W	15E				

LONGITUDE

CODE: MEAN ST. DEV. N
50% 84% 98%

JULY
FL 550

	MEAN								LAT	
70N									70N	
65					1.459 .312 .21 1.539 1.815 1.963				1.459 .312 .21 1.539 1.815 1.963	65
60						1.243 .246 .38 1.180 1.403 1.879			1.243 .246 .38 1.180 1.403 1.879	60
55						1.003 .170 .29 .993 1.158 1.353	1.239 .217 .67 1.254 1.419 1.650	997 .222 .25 960 1.206 1.384	1.132 .239 .121 1.128 1.357 1.631	55
50						.916 .091 .3 .952 .987 1.002		.893 .186 .122 .895 1.089 1.244	.894 .185 .125 .895 1.089 1.241	50
45			755 .335 .20 689 .808 1.613		1.160 .221 .13 1.212 1.307 1.503	.870 .205 .8 .964 1.053 1.078	.848 .208 .34 .836 1.027 1.246	.824 .191 .116 .802 1.007 1.243	.846 .234 .191 .818 1.053 1.349	45
40						.681 .207 .91 .643 .844 1.128		.553 .203 .30 .503 .796 .860	.649 .213 .121 .635 .829 1.058	40
35			.470 .118 .3 527 .561 .575			.444 .120 .17 .413 .553 .717			.448 .120 .20 .430 .565 .708	35
30	.201 .106 .7 175 .309 .363		.384 .183 .16 347 .459 .859			.552 .195 .23 .504 .762 .952			.440 .220 .46 .278 .668 .965	30
25										25
20	.397 .179 .12 373 .546 .789				.421 .1		.378 .162 .14 .320 .492 .775		.388 .167 .27 .369 .522 .850	20
15										15
10	.333 .031 .4 332 .360 .375					.231 .068 .67 .227 .267 .384			.236 .071 .71 .231 .269 .384	10
5	.543 .377 .3 307 .829 1.044								.543 .377 .3 .307 .829 1.044	5
0	.226 .114 .7 182 .259 .459								.226 .114 .7 .182 .259 .459	0
5					.190 .009 .2 .190 .196 .199				.190 .009 .2 .190 .196 .199	5
10										10
15							.321 .1		.321 .1	15
20										20
25										25
30										30
35										35
40			.987 .373 .58 891 1.424 1.758				.972 .223 .3 1.024 1.155 1.208		.987 .367 .61 .893 1.414 1.749	40
45S					.953 .324 .2 .953 1.173 1.264				.953 .324 .2 .953 1.173 1.264	45S
	15E	60E	105E	150E	165W	120W	75W	30W	15E	

LONGITUDE

CODE: MEAN ST. DEV. N
50% 84% 98%

JULY
FL 570

	MEAN										LAT										
70N																					
65					1.796	.368	.21					1.796	.368	.21	65						
					1.904	2.093	2.453					1.904	2.093	2.453							
60					1.547	.237	.38					1.547	.237	.38	60						
					1.495	1.691	2.195					1.495	1.691	2.195							
55					1.232	.173	.29	1.496	.230	.67	1.188	.232	.25	1.369	.260	.121	55				
					1.259	1.408	1.573	1.500	1.708	1.982	1.222	1.379	1.640	1.347	1.590	1.905					
50					1.171	.118	.3				1.096	.209	.122	1.098	.208	.125	50				
					1.237	1.260	1.270				1.085	1.316	1.471	1.089	1.314	1.471					
45			949	.305	.20		1.438	.245	.13	1.159	.142	.8	1.070	.260	.34	1.008	.197	.116	45		
			949	1.084	1.626		1.499	1.604	1.821	1.130	1.197	1.459	1.025	1.348	1.592	1.081	1.226	1.424			
40										.887	.220	.91				.708	.216	.30	40		
										.841	1.062	1.380				.735	.966	1.087			
35					.620	.040	.3				.609	.138	.17				.611	.128	.20	35	
					.623	.653	.665				.603	.737	.878				.574	.724	.876		
30		.258	.121	.7	.598	.176	.16				.683	.188	.23				.589	.228	.46	30	
		.263	.362	.443	.566	.708	1.003				.652	.878	1.132				.416	.758	1.110		
25																				25	
20		.562	.206	.12				.621		1				.476	.114	.14	.519	.167	.27	20	
		.501	.746	.987										.455	.618	.681	.490	.685	.913		
15																				15	
10		.495	.049	.4							.348	.077	.67				.356	.083	.71	10	
		.475	.534	.572							.340	.407	.496				.349	.422	.550		
5		.494	.385	.3													.494	.385	.3	5	
		.287	.794	1.003													.287	.794	1.003		
0		.287	.150	.7													.287	.150	.7	0	
		.234	.322	.593													.234	.322	.593		
5						.371	.026	.2										.371	.026	.2	5
						.371	.388	.395										.371	.388	.395	
10																				10	
15											.531		1				.531		1	15	
20																				20	
25																				25	
30																				30	
35																				35	
40					1.219	.375	.58							1.252	.173	.3	1.221	.368	.61	40	
					1.175	1.635	1.977							1.354	1.381	1.392	1.178	1.565	1.974		
45S					1.294	.323	.2										1.294	.323	.2	45S	
					1.294	1.514	1.604										1.294	1.514	1.604		

15E 60E 105E 150E 165W 120W 75W 30W 15E

LONGITUDE

CODE:

MEAN	ST. DEV.	N
51%	84%	98%

JULY
FL 590

		MEAN												LAT								
70N															70N							
65						2.068	.332	21							2.068	.332	21	65				
60						2.112	2.342	2.722							2.112	2.342	2.722	60				
55						1.858	.265	38							1.858	.265	38	55				
50						1.777	2.004	2.501							1.777	2.004	2.501	50				
45						1.483	.173	29	1.794	.262	67	1.435	.239	25	1.645	.291	121	45				
40						1.527	1.644	1.742	1.764	2.045	2.396	1.419	1.660	1.676	1.647	1.897	2.376	40				
35						1.401	.131	3				1.320	.218	122	1.322	.217	125	35				
30						1.450	1.506	1.529				1.348	1.529	1.681	1.349	1.532	1.679	30				
25						1.183	.317	19	1.664	.236	13	1.474	.216	8	1.220	.194	115	25				
20						1.192	1.420	1.778	1.660	1.920	2.025	1.415	1.742	1.746	1.296	1.576	1.873	1.246	1.541	1.856	20	
15									1.154	.249	91				898	.196	30	1.090	.261	121	15	
10									1.095	1.391	1.670				875	1.123	1.244	1.069	1.315	1.635	10	
5									.812	.168	17							.828	.164	20	5	
0									.818	.949	1.116							.819	.950	1.111	0	
5						.377	.138	7										.828	.164	20	5	
10						.352	.552	.586	.820	.202	16							.632	.916	1.496	10	
15									.767	.970	1.236										15	
20																					20	
25																					25	
30																					30	
35																					35	
40																					40	
45S																					45S	
	15E	60E	105E	150E	150E	165W	120W	75W	30W	15E												

CODE:	MEAN	ST. DEV.	N
	50%	84%	98%

AUGUST
FL 190

		MEAN												LAT		
70N															70N	
65						.043	.012	8								65
						.042	.057	.062								
60							.047	.016	31							60
							.050	.063	.073							
55							.053	.027	36		.052	.017	54		55	
							.048	.089	.111		.051	.066	.096			
50							.055	.019	84							50
							.055	.073	.092		.061	.019	117			
45			.067	.017	17		.046	.030	9		.067	.022	31		45	
			.066	.082	.095		.039	.076	.100		.045	.052	.057			
40	.083	1					.056	.021	106							40
							.055	.078	.102							
35			.058	.012	4		.060		1		.042	.015	12		35	
			.059	.069	.073						.037	.051	.077			
30		.037	.022	8		.047	.021	15							30	
		.032	.053	.075		.041	.074	.087		.062	.018	23				
25							.061	.077	.101							25
20		.035	.008	11		.047	.012	4		.078		1		20		
		.037	.042	.045		.051	.057	.058			.054	.014	10			
15		.015	.009	5											15	
		.011	.022	.029												
10		.036	.019	8						.028	.010	8		10		
		.031	.053	.068						.027	.037	.044				
5															5	
0															0	
5							.022	.005	3							5
							.023	.026	.028		.057	.002	2			
10											.057	.058	.059		10	
15							.031	.002	2			.017	.002	2		15
							.031	.032	.033			.017	.018	.018		
20																20
25																25
30																30
35							.031	.023	2							35
							.031	.047	.053							
40			.039	.009	63											40
			.038	.047	.059											
45S							.044	.002	2							45S
							.044	.045	.046							
	15E	60E	105E	150E	165W	120W	75W	30W	15E							

LONGITUDE

CODE:

MEAN	ST. DEV.	N
50%	R4%	98%

AUGUST
FL 210

		MEAN										LAT						
LAT	LONGITUDE																	
70N																		
65						.051	.009	8					.051	.009	8	65		
						.052	.062	.064					.052	.062	.064			
60									.051	.021	31							
									.052	.066	.101							
55										.051	.025	36	.056	.018	54			
									.050	.065	.107		.056	.073	.085			
50										.056	.021	65						
									.056	.076	.092		.055	.013	22			
45										.065	.021	127	.056	.015	111			
										.062	.087	.121	.062	.087	.121			
45		.061	.010	4		.085	.016	17		.045	.027	10	.086	.027	31			
		.058	.068	.076		.065	.081	.093		.033	.077	.085	.045	.050	.053			
40		.052	.015	4					.043	.034	3	.060	.024	112	.056	.021	12	
		.050	.065	.071					.025	.069	.087	.057	.084	.112	.058	.077	.088	
35		.054	.022	15		.052	.020	8	.020	.010	8	.044	.017	11				
		.056	.081	.085		.054	.062	.087	.020	.030	.031	.043	.056	.080				
30					.035	.023	13	.049	.018	15			.067	.019	23			
					.028	.058	.079	.046	.071	.080			.066	.080	.110			
25		.106		1		.055		1										
20					.036	.011	15	.027	.016	5			.055	.017	10			
					.038	.043	.055	.024	.045	.047			.058	.071	.079			
15					.013	.009	5											
					.011	.019	.029											
10					.035	.023	9					.026	.008	7				
					.029	.055	.074					.026	.032	.039				
5																		
0					.026	.005	3											
					.026	.031	.033											
5									.015	.004	3		.063	.008	2			
									.015	.019	.021		.063	.067	.069			
10					.032	.006	2											
					.032	.035	.037											
15					.020		1	.018	.008	8		.022	.004	2				
								.016	.026	.033		.022	.025	.026				
20								.008	.006	2								
								.008	.011	.013								
25								.021		1								
30					.043		1											
35					.034	.017	14	.034	.014	12								
					.038	.047	.062	.036	.041	.058								
40					.040	.009	62											
					.039	.049	.061											
45S					.039	.009	4	.039	.009	4								
					.043	.045	.047	.043	.045	.047								
	15E	60E	105E	150E	165W	120W	75W	30W	15E									

CODE: MEAN ST. DEV. N
50% 84% 98%

AUGUST
FL 230

		MEAN										LAT												
70N													70N											
65					.052	.012	8						.052	.012	8	65								
					.048	.066	.073						.048	.066	.073									
60								.053	.022	31				.053	.022	31	60							
								.050	.074	.092				.050	.074	.092								
55								.053	.027	36	.059	.020	54	.058	.015	22	55							
								.054	.068	.106	.056	.079	.104	.055	.077	.085								
50								.056	.024	85				.068	.022	121	50							
								.057	.078	.097				.066	.089	.121								
45	.075	.006	2		.065	.017	17	.038	.018	9	.049	.017	4	.063	.023	31	.058	.018	111	45				
	.075	.078	.080		.067	.085	.093	.050	.054	.058	.051	.063	.070	.062	.083	.115	.057	.075	.102	.053	.076	.106		
40	.043	.013	2					.052		1	.062	.025	107	.085	.018	7	.065	.020	22	.063	.025	139	40	
	.043	.051	.055								.059	.090	.113	.079	.095	.116	.063	.083	.106	.060	.089	.114		
35	.084	.012	2		.076	.029	6	.035	.014	2	.052	.022	14				.059	.027	24	.046	.093	.118	35	
	.084	.092	.096		.060	.112	.124	.035	.045	.048	.047	.071	.099				.046	.093	.118					
30				.042	.023	8	.049	.016	15					.068	.021	23				.057	.023	46	30	
				.045	.060	.079	.046	.066	.079					.070	.081	.118				.042	.078	.105		
25																								25
20		.037	.010	12				.041	.005	3				.055	.019	10				.045	.016	25	20	
		.040	.043	.053				.039	.045	.048				.058	.066	.087				.042	.061	.080		
15		.015	.008	5	.013		1													.014	.007	6	15	
		.012	.019	.029																.013	.016	.028		
10		.043	.021	8							.028	.011	7							.036	.018	15	10	
		.043	.057	.080							.025	.035	.045							.034	.051	.076		
5																								5
0		.023		1																.023		1	0	
5						.014	.004	3						.061	.005	2				.032	.023	5	5	
						.014	.017	.019						.061	.064	.065				.019	.059	.064		
10																								10
15						.030		1						.022	.001	2				.025	.004	3	15	
														.022	.023	.023				.023	.028	.030		
20						.029		1												.029		1	20	
25						.078		1												.078		1	25	
30																								30
35					.042	.015	8	.033	.019	6				.038		1				.038	.016	15	35	
					.039	.054	.066	.033	.051	.061										.035	.054	.066		
40					.043	.013	62													.043	.013	62	40	
					.041	.055	.073													.040	.055	.073		
45S						.047	.001	2												.047	.001	2	45S	
						.047	.048	.048												.047	.048	.048		
	15E	60E	105E	150E	165W	120W	75W	30W	15E															

LONGITUDE

CODE:

MEAN	ST. DEV.	N
50%	84%	98%

AUGUST
FL 250

	MEAN											LAT					
70N												70N					
65					.054	.008	8						.054	.008	8	65	
60					.053	.059	.069						.053	.059	.069	60	
55								.055	.025	31			.055	.025	31	55	
50								.050	.080	.103			.050	.080	.103	50	
45								.056	.030	36	.061	.020	54	.059	.015	21	45
40								.052	.075	.121	.060	.080	.100	.053	.075	.086	40
35								.055	1					.059	.023	111	35
30	.064	1		.070	.026	17		.057	.026	64				.070	.023	123	30
25	.003	1		.062	.099	116		.059	.084	100				.067	.095	120	25
20								.044	.028	9	.053	.005	4	.061	.019	113	20
15								.042	.072	.097	.051	.057	.060	.058	.079	106	15
10								.095	1		.066	.026	107	.067	.020	22	10
5	.070	1						.062	.094	.116	.083	.092	.097	.064	.086	.110	5
0								0	.000	1	.055	.028	15				0
5								.051	.089	.103				.054	.026	22	5
10	.088	1		.046	.026	8					.043	.081	.102	.043	.081	.102	10
15				.049	.071	.081					.069	.020	24	.059	.023	48	15
20				.048	.016	15		.066	.086	114				.045	.083	101	20
25	.059	1												.059		1	25
30																	30
35				.042		1								.045	.019	28	35
40								.040	.014	6	.058	.023	10	.034	.058	.097	40
45								.041	.049	.063	.057	.084	.098				45
50														.019	.007	6	50
55														.016	.029	.029	55
60														.045	.022	8	60
65											.032	.013	7	.039	.020	15	65
70								.034	.041	.053	.034	.041	.053	.037	.055	.080	70
75																	75
80																	80
85																	85
90																	90
95																	95
0	.030													.030		1	0
5								.013	.005	3				.033	.024	5	5
10								.014	.017	.018				.018	.061	.065	10
15																	15
20														.022	.003	2	20
25														.022	.023	.024	25
30																	30
35																	35
40														.045	.013	4	40
45								.054	.011	2	.036	.010	2	.045	.055	.063	45
50								.054	.061	.064	.036	.043	.046				50
55														.050	.027	63	55
60								.044	.057	.137				.044	.057	.137	60
65																	65
70								.048	.002	2				.048	.002	2	70
75								.048	.049	.050				.048	.049	.050	75
80																	80
85																	85
90																	90
95																	95
0																	0
5																	5
10																	10
15																	15
20																	20
25																	25
30																	30
35																	35
40																	40
45S																	45S

LONGITUDE

CODE:

MEAN	ST. DEV.	N
50%	84%	98%

AUGUST
FL 270

		MEAN												LAT										
70N																70N								
65						.058	.015	8									.058	.015	8	65				
						.057	.077	.082									.057	.077	.082					
60									.057	.026	31						.057	.026	31	60				
									.057	.083	.101						.057	.083	.101					
55									.060	.030	36	.067	.023	54	.059	.017	22	.063	.025	112	55			
									.053	.082	.139	.066	.089	.113	.056	.077	.090	.052	.085	.114				
50									.061	.029	83				.074	.026	120	.069	.028	203	50			
									.061	.094	.117				.070	.101	.125	.068	.098	.121				
45	.086	.018	2			.069	.028	17	.049	.027	9	.062	.016	5	.069	.027	32	.063	.018	112	.064	.022	177	45
	.086	.098	.103			.066	.089	.125	.044	.079	.096	.059	.079	.081	.061	.096	.138	.061	.082	.099	.061	.085	.116	
40	.104		1						.057	.002	3	.072	.029	109	.074	.022	3	.073	.026	23	.072	.028	139	40
									.057	.058	.059	.068	.101	.132	.087	.090	.092	.070	.095	.126	.068	.098	.132	
35	.065	.022	7			.057	.022	8	.051	.027	2	.056	.025	15							.058	.024	32	35
	.070	.077	.100			.053	.075	.079	.051	.069	.077	.058	.075	.104				.050			.050	.077	.105	
30		.050	.030	8		.049	.015	15				.073	.023	23							.061	.025	46	30
		.051	.082	.093		.050	.060	.081				.073	.088	.131				.045	.084	.112	.045	.084	.112	
25		.021		1								.104		1							.063	.042	2	25
																		.063	.091	.102	.063	.091	.102	
20		.032	.013	15					.033	.019	8	.087	.021	2	.055	.020	10				.042	.023	35	20
		.034	.042	.054					.033	.047	.068	.087	.101	.107	.052	.062	100				.039	.057	.108	
15		.021	.011	14		.031		1				.079	.009	2							.029	.021	17	15
		.020	.032	.040								.079	.085	.088							.026	.037	.062	
10		.038	.024	12								.033	.016	7	.044		1				.036	.021	20	10
		.031	.057	.086								.025	.044	.062							.025	.055	.082	
5		.028		1																	.028		1	5
0																								0
5						.012	.005	3							.063	.004	2				.032	.026	5	5
						.014	.015	.016							.063	.066	.067				.016	.062	.066	
10																								10
15						.022	.001	3							.030	.002	2				.025	.004	5	15
						.022	.023	.024							.030	.031	.031				.024	.029	.031	
20															.043	.013	3				.043	.013	3	20
															.038	.053	.059				.038	.053	.059	
25																								25
30						.078	.021	4													.078	.021	4	30
						.071	.093	.110													.071	.093	.110	
35						.061	.015	4	.040		1										.057	.016	5	35
						.059	.073	.084													.058	.069	.083	
40						.057	.034	62													.057	.034	62	40
						.049	.067	.151													.049	.067	.151	
45S						.049	.002	2													.049	.002	2	45S
						.049	.050	.051													.049	.050	.051	
	15E	60E	105E	150E	165W	120W	75W	30W	15E															

LONGITUDE

AUGUST
FL 290

CODE:

MEAN	ST. DEV.	N
50%	84%	98%

		MEAN												LAT							
70N																		70N			
65								.066	.015	8					.066	.015	8	65			
								.067	.073	.092					.067	.073	.092				
60											.061	.028	31				60				
											.062	.091	.107								
55											.069	.039	36	.078	.037	54	55				
											.061	.109	.173	.069	.108	.182					
50					.034	1					.068	.036	83	.085	.010	8	.075	.034	239		
							.064	.020	5		.064	.101	.156	.066	.090	.101	.075	.105	.148		
45		.079	.010	9			.045	.009	4	.079	.055	6	.079	.050	37	.067	.020	113	.069	.031	198
		.077	.090	.097			.046	.052	.055	.059	.079	.097	.055	.095	.187	.063	.038	.226	.059	.090	.132
40		.104	.050	12			.048	.016	2	.062	1	.052	.019	3	.073	.029	110	.067	.016	8	
		.092	.114	.228			.048	.059	.063			.050	.077	.087	.071	.103	.139	.061	.075	.102	
35		.069	.016	25			.055	.021	8			.069	.039	7	.056	.021	18	.084	.014	2	
		.068	.082	.106			.055	.080	.084			.052	.103	.138	.053	.077	.097	.068	.093	.096	
30		.066	.016	13	.057	.027	17	.052	.016	17				.074	.025	24	.096	1			
		.058	.082	.090	.059	.082	.107	.052	.068	.086				.072	.097	.131					
25		.062	.022	3	.028	.011	7	.046	.001	2			.031	1	.104	1					
		.048	.079	.091	.022	.039	.045	.046	.047	.047								.043	.025	14	
20					.036	.010	20	.039	.009	4			.035	.019	8	.063	1	.054	.019	10	
					.036	.043	.058	.039	.046	.050			.037	.048	.052			.057	.071	.084	
15					.024	.012	14	.024	.009	2			.025	1	.060	1					
					.022	.035	.051	.024	.030	.033											
10					.038	.021	17	.013		1					.035	.013	8				
					.030	.057	.088								.034	.044	.056				
5					.024	.006	9								.041	1					
					.022	.030	.033														
0					.029	.011	4	.019	.002	2											
					.030	.039	.041	.019	.020	.020								.025	.010	6	
5								.019	.004	4	.010	.004	3				.060	.001	2		
								.019	.023	.023	.013	.014	.014				.060	.060	.060		
10								.025	.006	2								.025	.006	2	
								.025	.028	.030								.025	.028	.030	
15		.068	.005	2				.018		1	.025	.004	5				.037	.006	2		
		.068	.071	.073							.025	.027	.031				.037	.041	.043		
20		.048	.005	2	.040			.019		1							.048	.014	2		
		.048	.051	.052													.048	.057	.060		
25					.061	.019	4	.025	0.000	2											
					.063	.080	.080	.025	.025	.025											
30					.057	.029	6														
					.050	.070	.110														
35					.058	.015	9	.057	.023	8											
					.058	.075	.081	.055	.068	.104											
40					.073	.057	63														
					.053	.104	263														
45S								.051	.001	2											
								.051	.052	.052											
	15E	60E	105E	150E	165W	120W	75W	30W	15E												
	LONGITUDE																				

CODE:

MEAN	ST. DEV.	N
50%	84%	98%

AUGUST
FL 310

		MEAN									LAT																		
70N														70N															
65						.093	.033	8						.093	.033	8	65												
						.094	.115	144						.094	.115	144													
60										.075	.057	31				.075	.057	31	60										
										.064	.105	230				.064	.105	230											
55						.127	.048	4		.075	.046	36	.114	.087	62	.086	.048	28	.097	.071	130	55							
						.117	.165	197		.065	.111	184	.085	.160	374	.074	.101	243	.067	.139	315								
50					.044	1	.215	.041	2	.076	.048	83	.075	0.000	2	.086	.043	147	.083	.046	235	50							
							.215	.243	254	.071	.119	199	.075	.075	075	.078	.115	193	.075	.118	215								
45	.068	.011	9		.070	.027	17			.058	.034	9	.103	.097	7	.079	.031	31	.072	.023	116	.073	.032	189	45				
	.064	.081	085		.059	.105	124			.059	.081	125	.055	.145	305	.072	.096	159	.070	.095	139	.067	.139	315					
40	.070	.019	28		.050	.006	2	.046	.005	2	.071	.025	8	.075	.029	116	.078	.015	9	.084	.032	23	.075	.027	188	40			
	.063	.087	114		.050	.034	055	.046	.046	051	.070	.079	116	.071	.102	140	.079	.092	097	.087	.109	140	.071	.021	134				
35	.063	.017	18		.053	.014	13			.062	.036	14	.059	.021	13							.060	.023	58	35				
	.061	.081	092		.052	.072	075			.051	.092	107	.060	.067	106							.047	.079	121					
30	.069	.013	9		.051	.019	16			.050	.024	4	.079	.030	25	.064		1				.063	.028	76	30				
	.067	.085	091		.048	.076	090			.046	.068	084	.076	.100	148							.056	.091	125					
25	.056	.027	6		.033	.011	12	.044	.006	3	.037		1										.041	.019	23	25			
	.046	.063	109		.036	.042	051	.046	.049	051													.038	.048	088				
20					.033	.012	21	.040	.003	2	.038	.015	15				.051	.018	10				.038	.015	51	20			
					.030	.041	062	.040	.041	042	.034	.007	3	.039	.049	062				.057	.066	076				.037	.053	070	
15					.026	.008	14	.022	.008	5	.025	.014	3	.027	.006	8							.025	.009	30	15			
					.024	.037	041	.018	.029	035	.016	.035	043	.027	.033	035							.019	.035	043				
10					.043	.022	16				.019	.004	3	.033	.012	8	.042		1				.037	.019	29	10			
					.040	.059	094				.019	.022	024	.035	.045	050							.035	.052	086				
5					.023	.008	5				.015	.010	2										.021	.009	7	5			
					.021	.028	036				.015	.022	025										.021	.025	036				
0					.026	.002	2										.066		1				.039	.019	3	0			
					.026	.027	028																.028	.054	064				
5	.036	.003	2		.027	.006	7	.010	.004	3				.059	.004	4							.033	.018	16	5			
	.036	.038	039		.025	.031	038	.012	.013	013				.060	.062	064							.027	.057	063				
10	.026	.001	2		.023	.006	8	.027	.009	2				.072	.002	2							.031	.018	14	10			
	.026	.027	027		.022	.029	032	.027	.033	036				.072	.073	074							.023	.036	074				
15					.028	.004	7							.051	.016	4							.036	.015	11	15			
					.027	.032	036							.051	.067	068							.032	.048	067				
20					.028	.005	6	.056		1				.057	.006	4							.041	.016	11	20			
					.027	.031	036							.055	.061	066							.037	.055	065				
25					.043	.018	14	.027		1				.061		1							.043	.018	16	25			
					.041	.056	078																.041	.059	078				
30					.039	.022	14																.059	.022	14	30			
					.035	.085	101																.055	.085	101				
35					.069	.026	5	.070	.016	7													.069	.021	12	35			
					.070	.092	109	.061	.083	093													.065	.086	107				
40					.095	.075	63																.095	.075	63	40			
					.066	.137	327																.066	.137	327				
45S					.050	.001	2																.050	.001	2	45S			
					.050	.050	050																.050	.050	050				

LONGITUDE

CODE:

MEAN	ST. DEV.	N
50%	84%	98%

AUGUST
FL 330

		MEAN												LAT							
70N																					
65								.131	.069	8							.131	.069	8		
								.116	.213	.238							.116	.213	.238		
60								.089	.021	3							.130	.106	.44		
								.085	.107	.116	.115	1	.106	.078	.36	.376	.041	.4			
55								.078	.019	5							.112	.089	.51		
								.090	.097	.098	.117	.022	.134	.137	.095	.068	.42	.161	.121	.63	
50								.082	.017	8							.101	.053	.141		
								.087	.092	.107	.127	.134	.137	.075	.155	.286	.110	.251	.340		
45	.085	.028	14				.069	.027	17								.080	.036	.113		
	.072	.107	.150				.064	.087	.135	.081	.041	6	.087	.078	9	.105	.105	.12	.090	.033	.59
40	.098	.049	32				.067	.030	2	.058	.034	10	.094		1	.075	.032	.122	.073	.015	10
	.083	.125	.220				.067	.087	.095	.045	.075	.134	.049	.175	.236	.068	.131	.371	.084	.117	.185
35	.062	.016	28				.054	.021	18								.073	.032	.17		
	.059	.078	.095				.052	.072	.093	.069	.040	29	.061	.102	.171	.073	.032	.17	.066	.109	.135
30	.067	.013	9	.059	.033	19	.048	.020	25								.047	.017	24		
	.067	.080	.087	.051	.079	.138	.043	.073	.098	.043	.056	.095	.043	.056	.095	.075	.032	.29	.080	.100	.149
25	.042	.005	6	.043	.014	21	.043	.018	13	.061	.016	3	.037	.014	13	.063	.018	7	.084	.019	2
	.044	.046	.046	.041	.052	.073	.044	.057	.074	.060	.074	.080	.036	.046	.062	.068	.077	.086	.084	.096	.101
20				.036	.011	34	.033	.012	8	.033	.014	6	.036	.021	11	.057	.010	2	.054	.018	12
				.032	.045	.062	.033	.045	.051	.037	.041	.047	.031	.050	.081	.057	.063	.066	.057	.069	.081
15				.029	.008	15	.021	.005	5	.030		1	.028		1	.054	.014	5	.044	.001	2
				.027	.036	.044	.023	.024	.027	.023			.028			.068	.073	.080	.044	.044	.044
10				.048	.027	11	.018	.001	2	.022		1	.018	.004	2	.030	.013	7	.047	.008	4
				.045	.068	.102	.018	.019	.019	.018	.020	.021	.018	.020	.021	.033	.041	.047	.044	.052	.059
5				.034	.013	8	.015	.009	2							.041	.003	2	.040	.005	6
				.033	.049	.054	.015	.017	.018							.041	.043	.044	.040	.044	.048
0				.031	.009	9	.018	.006	8										.049	.011	6
				.031	.039	.043	.018	.021	.027										.047	.056	.068
5				.038	.006	5	.021	.008	8	.010	.004	3							.053	.006	5
				.039	.044	.045	.021	.027	.036	.012	.013	.013							.052	.059	.062
10				.042	.005	5	.023	.005	11	.026	.001	2							.043	.003	2
				.041	.047	.050	.022	.030	.031	.026	.026	.026							.043	.045	.046
15				.037	.002	2	.026	.008	16	.025	.006	6	.033	.010	3				.048	.013	5
				.037	.038	.039	.027	.032	.042	.027	.029	.032	.038	.041	.042	.038	.041	.042	.058	.058	.059
20				.048	.002	2	.039	.017	18	.036	.010	9							.055	.000	2
				.048	.049	.050	.034	.047	.084	.031	.048	.050							.055	.055	.055
25							.070	.054	11	.061	.039	21									
							.056	.082	.200	.043	.093	.159							.064	.045	.32
30							.080	.021	10	.103	.062	24							.096	.054	.34
							.072	.099	.123	.073	.145	.271							.071	.126	.267
35							.115	.095	20	.128	.069	12							.120	.086	.32
							.083	.161	.341	.120	.183	.269							.070	.172	.335
40							.130	.096	62	.177	.098	4							.133	.097	.66
							.100	.217	.337	.126	.242	.333							.100	.218	.343
45S							.188	.137	3	.148	.300	.363							.188	.137	3
																			.148	.300	.363

AUGUST
FL 350

CODE:	MEAN	ST. DEV.	N
	50%	84%	98%

		MEAN												LAT																						
		15E				60E				105E				150E				165W				120W				75W				30W				15E		
70N																										70N										
65																										65										
60																										60										
55																										55										
50																										50										
45	133 106	.066 .187	15 285																									45								
40	130 123	.068 .154	15 291																									40								
35	059 055	.018 .075	49 112																									35								
30	048 044	.018 .067	22 083																									30								
25	040 041	.008 .048	10 053																									25								
20																										20										
15																										15										
10																										10										
5																										5										
0																										0										
5																										5										
10																										10										
15																										15										
20																										20										
25																										25										
30																										30										
35																										35										
40																										40										
45S																										45S										

LONGITUDE

CODE:

MEAN	ST. DEV.	N
50%	84%	98%

AUGUST
FL 370

		MEAN												LAT														
70N												.453	.029	8	.453	.029	8											
												.462	.483	.485	.462	.483	.485											
65						.132	.069	8	.204	.139	.66	.307	.147	7	.417	.124	7											
						.122	.217	.231	.147	.366	.485	.295	.444	.506	.497	.513	.519											
60						.236	.116	20	.250	.111	.29	.228	.114	.39	.314	.119	10											
						.215	.378	.443	.245	.361	.443	.216	.398	.467	.346	.420	.473											
55						.263	.123	30	.202	.086	5	.170	.124	.53	.249	.156	.74											
						.310	.394	.431	.163	.274	.349	.127	.298	.445	.230	.417	.544											
50						.115	.107	43	.191	.135	.55	.154	.117	.102	.176	.115	.58											
						.073	.176	.414	.195	.318	.469	.120	.294	.407	.120	.339	.417											
45	.149	.060	10		.082	.047	18	.126	.101	81	.134	.115	.38	.127	.103	.27	.108	.065	.63									
	.137	.218	.248		.074	.102	.206	.087	.216	.373	.078	.276	.393	.089	.173	.420	.114	.194	.287									
40	.112	.062	10	.064	.029	23	.074	.057	45	.091	.070	19	.080	.048	205	.069	.010	10	.109	.058	22							
	.105	.159	.238	.059	.093	.134	.055	.096	.247	.072	.118	.277	.072	.105	.193	.086	.100	.106	.087	.149	.261							
35	.054	.016	5	.054	.023	29	.064	.032	9	.077	.047	.38	.067	.029	.33	.100	.015	2										
	.050	.069	.079	.049	.072	.109	.054	.070	.136	.074	.105	.247	.071	.093	.126	.100	.110	.114										
30	.068	.013	6	.068	.050	13	.050	.018	21		.057	.027	.74	.083	.033	25	.134		1									
	.069	.080	.085	.061	.088	.184	.054	.066	.087		.050	.084	.130	.084	.100	.163				.063	.032	140						
25	.042	1		.063	.010	6	.064	.010	5		.044	.069	.087	.071	.009	2	.093	.024	2	.054	.020	77						
				.060	.075	.078	.062	.070	.081		.040	.052	.084	.071	.076	.079	.093	.109	.116	.052	.071	102						
20				.046	.016	16	.039	.014	7	.044	.005	2	.067	.010	3	.058	.027	12				.046	.020	63				
				.043	.060	.080	.032	.058	.060	.044	.047	.049	.061	.075	.080	.051	.094	.098				.044	.062	.098				
15				.030	.010	12	.023	.009	8		.029	.015	14	.061	.013	3	.066	.007	2				.033	.017	39			
				.030	.042	.046	.028	.029	.031		.028	.040	.063	.068	.079	.071	.066	.070	.072				.028	.046	.071			
10				.054	.028	12	.022	.003	4	.024	.012	3	.026	.011	.16	.043	.018	.11	.061		1				.037	.022	47	
				.046	.076	.111	.022	.026	.027	.019	.034	.040	.021	.037	.047	.039	.065	.074				.032	.062	.089				
5				.019	.006	4				.026	.015	10	.023	.010	.13				.067		1				.025	.014	28	
				.020	.025	.026				.028	.033	.058	.022	.032	.040							.016	.033	.065				
0				.039	1					.024	.008	15	.031	.008	8				.065	.014	3				.031	.015	27	
							.023	.033	.041	.023	.033	.041	.030	.040	.041				.075	.075	.075				.025	.041	.075	
5							.026	.012	23		.059	.014	2	.059	.060	.071				.073	.018	8				.039	.025	33
							.024	.039	.053		.024	.039	.053				.072	.086	.103				.030	.062	.093			
10					.017	.004	3	.029	.008	17		.056	1				.070	.011	7				.039	.021	28			
					.015	.020	.022	.026	.034	.048							.068	.080	.087				.027	.061	.084			
15				.028	.004	2	.037	.014	12					.058	.019	7							.043	.019	21			
				.028	.030	.031	.036	.046	.071					.059	.063	.087							.039	.059	.085			
20				.025	.011	2	.045	.011	7					.063	.008	5							.049	.016	14			
				.025	.032	.036	.047	.055	.056					.059	.071	.075							.051	.059	.073			
25				.041	.012	8				.106		1							.342		1				.077	.091	10	
				.041	.053	.056																.043	.084	.300				
30				.122	.122	14	.138	.049	3					.482	.033	2							.162	.153	19			
				.060	.263	.388	.107	.175	.203					.482	.504	.513							.100	.349	.491			
35				.161	.103	29	.167	.066	8					.223		1							.164	.095	38			
				.113	.270	.396	.160	.237	.272														.118	.252	.381			
40				.250	.118	63																.250	.118	63				
				.255	.366	.474																.255	.366	.474				
45S				.311	.092	2	.311	.374	.399													.311	.092	2				
																						.311	.374	.399				

LONGITUDE

CODE: MEAN ST. DEV. N
50% 84% 98%

AUGUST
FL 410

		MEAN												LAT		
70N															70N	
65								.400 .155 8 .400 .514 .655	489	1						65
60								.409 .073 3 .458 .461 .462	.353 .086 5 .376 .427 .438	.360 .101 42 .370 .460 .502	.468 .103 21 .493 .557 .605	.441 .079 12 .448 .492 .575	.410 .149 9 .457 .512 .652	60		
55								.321 .148 22 .374 .458 .510		.293 .148 56 .261 .435 .521	.356 .134 81 .389 .473 .576	.329 .114 68 .329 .462 .503	.329 .136 227 .337 .464 .534	55		
50								.229 .133 34 .190 .379 .447	.160 .074 22 .174 .225 .278	.245 .131 123 .246 .394 .485	.314 .134 23 .313 .468 .487	.245 .113 123 .239 .359 .460	.242 .125 325 .236 .392 .481	50		
45	.177 .020 4 .175 .197 200							.103 .053 22 .093 .119 .252	.145 .074 25 .125 .218 .298	.202 .150 64 .172 .351 .576	.226 .129 50 .211 .385 .457	.145 .077 51 .117 .202 .355	.200 .101 116 .192 .314 .423	.185 .115 332 .118 .299 .456	45	
40	.093 .033 10 .082 .112 .168							.095 .056 15 .089 .124 .231	.063 .007 5 .065 .069 .069	.169 .093 43 .146 .275 .375	.110 .063 138 .095 .155 .301	.153 .061 8 .126 .189 .282	.127 .075 22 .096 .185 .301	.121 .073 241 .099 .171 .322	40	
35	.087 .004 4 .066 .091 .091							.084 .055 12 .060 .117 .209		.070 .023 11 .074 .094 .103	.089 .058 17 .066 .117 .236			.083 .048 44 .075 .104 .228	35	
30	.079 .013 4 .079 .091 .096	.085 .075 8 .078 .110 .240						.068 .021 15 .055 .085 .109		.062 .020 8 .064 .082 .090	.095 .045 23 .089 .121 .207			.081 .044 58 .062 .110 .227	30	
25		.132 1						.006 .004 3 .004 .009 .012		.047 .018 8 .049 .064 .070				.044 .035 12 .041 .056 .119	25	
20		.051 .024 13 .054 .090 .093						.038 .024 6 .028 .051 .083		.046 .016 4 .048 .061 .062			.068 .031 10 .074 .101 .112	.057 .028 33 .050 .050 .107	20	
15		.071 .052 4 .051 .110 .153						.022 .007 11 .022 .029 .031		.017 .006 2 .017 .021 .023				.033 .033 17 .024 .037 .126	15	
10		.087 .035 10 .069 .095 .132						.022 .004 8 .023 .026 .029		.026 0.000 2 .026 .026 .026	.035 .008 7 .038 .041 .043			.042 .029 27 .029 .070 .119	10	
5		.022 .007 3 .023 .028 .030						.025 .010 4 .021 .032 .040						.023 .009 7 .023 .030 .046	5	
0																
5								.012 .003 3 .013 .014 .014					.062 .004 2 .062 .065 .066	.032 .025 3 .014 .061 .065	5	
10								.026 .001 2 .026 .026 .026						.026 .001 2 .026 .026 .026	10	
15								.035 .007 4 .037 .041 .041				.043 .029 2 .043 .063 .071	.038 .018 6 .037 .047 .059	15		
20								.037 .012 6 .034 .046 .056						.037 .012 6 .034 .046 .056	20	
25								.052 .023 10 .045 .065 .104						.052 .023 10 .045 .065 .104	25	
30								.143 .084 9 .121 .248 .294						.143 .084 9 .121 .248 .294	30	
35								.243 .123 7 .267 .359 .433						.243 .123 7 .267 .359 .433	35	
40								.329 .152 63 .341 .501 .612						.329 .152 63 .341 .501 .612	40	
45S								.390 .018 2 .390 .402 .407						.390 .018 2 .390 .402 .407	45S	
	15E	60E	105E	150E	165W	120W	75W	30W	15E							
	LONGITUDE															

CODE:

MEAN	ST. DEV.	N
50%	84%	98%

AUGUST
FL 430

	MEAN										LAT								
70N												70N							
65						.499	.205	8				.499	.205	8	65				
						.497	.565	.895				.487	.565	.895					
60									.403	.113	31		.403	.113	31	60			
									.419	.493	.588		.419	.493	.588				
55									.312	.179	36	.397	.152	53	55				
									.276	.447	.714	.415	.527	.652					
50					.149	.055	4		.265	.142	88	.198	.015	2	50				
					.155	.201	.211		.262	.394	.545	.198	.208	.212					
45				.111	.058	22		.314	.217	9	.188	.139	14	.211	.114	34	45		
				.100	.139	.262		.217	.555	.673	.135	.292	.507	.183	.308	.512			
40				.075	.054	16	.090	.027	6		.125	.068	109	.313		1	40		
				.054	.098	.218	.079	.108	.141		.111	.159	.339	.118	.086	.22			
35				.104	.057	8				.128	.016	2	.084	.035	12		35		
				.090	.141	.216				.128	.139	.143	.081	.114	.150				
30	.089	.083	8	.073	.024	15		.109	.014	3	.108	.060	23		.094	.057	49	30	
	.074	.120	.263	.069	.098	.120		.106	.120	.126	.094	.135	.269		.089	.125	.287		
25				.048	.011	2									.046	.011	2	25	
				.046	.053	.056									.046	.053	.056		
20	.063	.027	11	.051	.008	4		.060	.005	2			.080	.034	10	.067	.029	27	20
	.057	.100	.106	.051	.059	.061		.060	.063	.064			.065	.115	.129	.060	.103	.124	
15	.125	.139	4	.035	.013	6									.071	.099	10	15	
	.054	.220	.347	.034	.044	.056									.035	.060	.310		
10	.087	.035	8	.032	.011	6				.037	.009	7			.055	.034	21	10	
	.087	.113	.145	.031	.040	.052				.043	.044	.048			.043	.091	.136		
5	.017	.004	3	.024	.007	4									.021	.007	7	5	
	.014	.019	.022	.027	.030	.032									.022	.027	.031		
0																			0
5						.012	.004	3				.064	.002	2	.033	.026	5	5	
						.019	.016	.017				.064	.065	.066	.017	.063	.066		
10																			10
15												.042	.029	2	.042	.029	2	15	
												.042	.061	.069	.042	.061	.069		
20																			20
25																			25
30																			30
35						.213	.029	2							.213	.029	2	35	
						.213	.233	.241							.213	.233	.241		
40				.359	.214	63									.359	.214	63	40	
				.315	.575	.753									.315	.575	.753		
45S						.592	.229	2							.592	.229	2	45S	
						.592	.747	.811							.592	.747	.811		
	15E	60E	105E	150E	165W	120W	75W	30W	15E										
	LONGITUDE																		

CODE:

MEAN	ST. DEV.	N
50%	84%	98%

AUGUST
FL 450

	MEAN												LAT						
70N																			
65					.555	.146	8							.555	.146	8	65		
60					.557	.627	800							.454	.122	31	60		
55										.463	.555	.667		.463	.555	.667	55		
50										.354	.180	36	.446	.177	53	.357	.098	21	50
45										.310	.468	.713	.459	.567	.743	.352	.449	.529	45
40										.303	.153	85				.312	.129	116	40
35										.299	.452	.563				.310	.444	.551	35
30					.125	.033	17			.341	.214	9	.330	.170	4	.265	.137	31	30
25					.118	.156	.191			.334	.599	687	.277	.461	.592	.228	.392	605	25
20													.145	.077	105				20
15													.131	.182	.426				15
10													.085	.028	10				10
5													.081	.106	.144				5
0																			0
5																			5
10																			10
15																			15
20																			20
25																			25
30																			30
35																			35
40																			40
45S																			45S
	15E	60E	105E	150E	165W	120W	75W	30W	15E										

CODE: MEAN ST. DEV. N
50% 84% 98%

AUGUST
FL 470

		MEAN															LAT					
70N																			70N			
65							.671	.184	8									.671	.184	8	65	
60							.672	.876	.894									.672	.876	.894	60	
55										.556	.155	31						.556	.155	31	55	
50										.411	.185	36	.545	.213	53	.434	.099	21	.480	.191	110	50
45										.406	.540	.788	.549	.671	.969	.419	.500	.663	.389	.634	.938	45
40										.355	.155	85						.366	.130	116	40	
35										.323	.503	.643						.363	.505	.601	35	
30										.164	.058	17	.448	.236	9	.292	.147	31	.307	.146	171	30
25										.150	.189	.318	.436	.609	.850	.243	.427	.644	.306	.463	.645	25
20																		.189	.103	22	20	
15																		.173	.263	.409	15	
10																					10	
5																					5	
0																					0	
5																					5	
10																					10	
15																					15	
20																					20	
25																					25	
30																					30	
35																					35	
40																					40	
45S																					45S	
	15E	60E	105E	150E	165W	120W	75W	30W	15E													

LONGITUDE

CODE:

MEAN	ST. DEV.	N
50%	84%	98%

AUGUST
FL 490

		MEAN										LAT											
70N													70N										
65				.904	.165	8							.904	.165	8	65							
				.909	1.026	1.176							.909	1.026	1.176								
60							.683	.181	31				.683	.181	31	60							
							.642	.857	1.102				.642	.857	1.102								
55							.485	.160	36	.644	.218	53	.538	.108	21	55							
							.459	.629	.833	.627	.801	1.199	.551	.634	.719	.462	.226	.973					
50							.434	.166	85				.438	.140	116	.437	.152	201					
							.430	.597	.756				.421	.577	.733	.422	.581	.748					
45		.209	.066	17			.547	.253	9	.619	.223	4	.352	.124	31	.388	.125	110	.377	.154	171	45	
		.205	.267	.360			.474	.831	.861	.726	.767	.785	.330	.471	.616	.395	.510	.658	.365	.510	.764		
40										.239	.092	105				.247	.123	22	.240	.098	127	40	
										.135	.055	10				.248	.359	.499	.218	.341	.478		
35			.157	.055	3					.120	.199	.233							.140	.056	13	35	
			.187	.199	.203														.120	.206	.233		
30	.126	.101	8							.179	.079	23							.150	.079	46	30	
	.087	.183	.335							.151	.229	.361							.099	.202	.361		
25																							25
20	.122	.067	11				.134	.010	2				.105	.041	10				.116	.055	23	20	
	.118	.186	.257				.134	.141	.144				.104	.131	.185				.111	.163	.239		
15	.220	.271	4																.220	.271	4	15	
	.075	.397	.653																.075	.397	.653		
10	.135	.058	8							.071	.029	7							.105	.056	15	10	
	.140	.197	.207							.068	.091	.120							.087	.189	.205		
5																							5
0																							0
5				.023	.012	3							.084	.006	2				.048	.031	5	5	
				.019	.033	.039							.084	.088	.090				.040	.082	.089		
10																							10
15													.121	.016	2				.121	.016	2	15	
													.121	.132	.136				.121	.132	.136		
20																							20
25																							25
30																							30
35																							35
40			.497	.214	63														.497	.214	63	40	
			.443	.773	.939														.443	.773	.939		
45S				.582	.146	2													.582	.146	2	45S	
				.582	.681	.722													.582	.681	.722		
	15E	60E	105E	150E	165W	120W	75W	30W	15E														
	LONGITUDE																						

CODE: MEAN ST. DEV. N
50% 84% 98%

AUGUST
FL 510

		MEAN												LAT	
70N															70N
65															65
60															60
55															55
50															50
45															45
40															40
35															35
30															30
25															25
20															20
15															15
10															10
5															5
0															0
5															5
10															10
15															15
20															20
25															25
30															30
35															35
40															40
45S															45S
	15E	60E	105E	150E	165W	120W	75W	30W	15E						

LONGITUDE

CODE:

MEAN	ST. DEV.	N
50%	84%	98%

AUGUST
FL 530

		MEAN												LAT													
70N																70N											
65						1.161	.237	8								1.161	.237	8	65								
						1.134	1.210	1.653								1.134	1.210	1.653									
60									1.007	.245	31					1.007	.245	31	60								
									1.034	1.213	1.334					1.034	1.213	1.334									
55									.721	.168	36	.965	.271	53	.824	.202	21	.858	.254	110	55						
									.713	.878	1.013	.924	1.172	1.667	.860	1.029	1.135	.760	1.038	1.581							
50									.695	.222	85				.698	.212	116	.664	.893	1.268	50						
									.660	.930	1.064				.666	.851	1.341										
45			.364	.131	17				.671	.194	9				.602	.154	110	.588	.173	171	45						
			.326	.480	.652				.704	.866	.981				.605	.766	.909	.577	.780	.884	.576	.780	.918				
40												.387	.117	105				.409	.155	22	.390	.124	127	40			
												.352	.494	.736				.401	.588	.695	.363	.497	.720				
35			.398	.093	3							.301	.101	10							.323	.107	13	35			
			.356	.472	.520							.287	.415	.466							.312	.436	.514				
30		.161	.114	8	.193	.079	15							.317	.100	23							.249	.118	46	30	
		.110	.236	.384	.171	.233	.393							.304	.418	.519							.173	.384	.485		
25																									25		
20		.174	.110	11				.266	.002	2							.209	.079	10				.197	.095	23	20	
		.163	.274	.393				.266	.267	.267							.202	.290	.325				.287	.379			
15		.190	.109	4																			.190	.109	4	15	
		.156	.279	.356																			.156	.279	.356		
10		.195	.093	6							.115	.028	7										.158	.081	15	10	
		.169	.287	.369							.115	.146	.147										.138	.207	.358		
5																									5		
0																									0		
5						.078	.041	3							.148	.020	2							.106	.048	3	5
						.078	.112	.126							.148	.162	.167							.128	.142	.165	
10																									10		
15															.169	.009	2							.169	.009	2	15
															.169	.175	.178							.169	.175	.178	
20																									20		
25																									25		
30																									30		
35																									35		
40					.830	.313	63																.830	.313	63	40	
					.812	1.148	1.488																.812	1.148	1.488		
45S						.822	.128	2				.822	.128	2										.822	.128	2	45S
						.822	.909	.945																.822	.909	.945	
	15E	60E	105E	150E	165W	120W	75W	30W	15E																		

LONGITUDE

CODE: MEAN ST. DEV. N
50% 84% 98%

AUGUST
FL 550

		MEAN												LAT							
70N															70N						
65						1.440	.318	8							1.440	.318	8	65			
						1.309	1.769	1.979							1.309	1.769	1.979				
60									1.278	.253	31				1.278	.253	31	60			
									1.322	1.476	1.618				1.322	1.476	1.618				
55									948	.208	36	1.217	.299	53	1.037	.202	21	1.094	.283	110	55
									922	1.143	1.337	1.173	1.350	1.975	1.023	1.196	1.429	1.922	1.307	1.812	
50									904	.250	84				.887	.216	116	.894	.231	200	50
									898	1.146	1.329				871	1.064	1.386	823	1.126	1.346	
45												.875	.262	9	.761	.162	109	.747	.197	170	45
												872	1.136	1.289	717	.984	1.218	718	.959	1.171	
40																					40
									.561	.147	105				.577	.174	22	.564	.152	127	
									.543	.681	1.062				.516	.801	.834	.536	.708	.963	
35												.437	.118	10				.457	.113	13	35
												.451	.562	.590				.474	.569	.588	
30																					30
									.222	.108	8	.286	.109	15				.360	.145	46	
									.162	.326	.418	.239	.333	.562				.292	.512	.660	
25																					25
20									.277	.153	11							.296	.122	23	20
									.227	.441	.543				.440	.029	2	.293	.424	.524	
															.440	.460	.468	.290	.348	.401	
15																					15
									.279	.146	4							.279	.146	4	
									.265	.417	.474							.265	.417	.474	
10																					10
									.277	.090	6							.233	.085	15	
									.271	.377	.427							.195	.295	.421	
5																					5
0																					0
5																					5
									.205	.019	3							.203	.028	5	
									.191	.219	.230							.191	.233	.236	
10																					10
15																					15
20																					20
25																					25
30																					30
35																					35
40																					40
									1.006	.341	63							1.006	.341	63	
									1.029	1.366	1.603							1.029	1.366	1.603	
45S																					45S
									1.040	.141	2							1.040	.141	2	
									1.040	1.135	1.174							1.040	1.135	1.174	
	15E	60E	105E	150E	165W	120W	75W	30W	15E												

LONGITUDE

CODE:

MEAN	ST. DEV.	N
50%	84%	98%

AUGUST
FL 570

		MEAN												LAT		
70N														70N		
65						1.927	.379	8							65	
						1.883	2.346	2.374								
60						1.558	.311	.31							60	
						1.585	1.845	1.983								
55						1.169	.227	.35	1.500	.266	.53	1.317	.237	.21	55	
						1.151	1.432	1.518	1.461	1.678	2.146	1.262	1.571	1.724		
50						1.115	.276	.85				1.093	.218	.116	50	
						1.138	1.352	1.568				1.083	1.292	1.611		
45				671	.139	17	1.057	.215	9	1.211	.209	4	1.025	.246	31	45
				635	.782	.981	1.098	1.269	1.283	1.243	1.387	1.454	.940	1.321	1.571	
40							778	.182	105				766	.170	22	40
							746	.940	1.344				.851	.910	1.022	
35				649	.064	3	579	.120	10				595	.113	13	35
				606	.696	.794	533	.717	766				601	.740	765	
30				.352	.120	8	635	.153	23				534	.187	46	30
				.342	.451	.960	612	.741	1.009				.415	.666	.983	
25																25
20				.430	.175	.11	618	.059	2				.431	.091	10	20
				.411	.660	.713	.618	.658	.675				.423	.520	.585	
15				.544	.271	4							544	.271	4	15
				.509	.812	.875							509	.812	.875	
10				.402	.143	8	299	.080	7				354	.129	15	10
				.377	.584	.611	.282	.365	.434				.309	.485	.608	
5																5
0																0
5						.336	.023	3				.274	.065	2	5	
						.340	.354	.360				.274	.317	.335		
10																10
15													.387	.022	2	15
													.387	.402	.408	
20																20
25																25
30																30
35																35
40				1.200	.379	63							1.200	.379	63	40
				1.266	1.585	1.860							1.266	1.585	1.860	
45S				1.300	.193	2	1.300	1.431	1.485				1.300	.193	2	45S
													1.300	1.431	1.485	
	15E	60E	105E	150E	165W	120W	75W	30W	15E							
	LONGITUDE															

CODE: MEAN ST. DEV. N
50% 84% 98%

AUGUST
FL 590

		MEAN										LAT		
70N													70N	
65						2.201 .382 8							2.201 .382 8	65
						2.079 2.636 2.681							2.079 2.636 2.681	
60							1.826 .331 .31						1.826 .331 .31	60
							1.835 2.109 2.364						1.835 2.109 2.364	
55							1.433 .225 .35	1.760 .256 .53	1.544 .213 .21				1.613 .280 .109	55
							1.414 1.640 1.918	1.728 1.974 2.281	1.493 1.770 2.020				1.591 1.855 2.240	
50							1.378 .307 .85		1.326 .258 .116				1.348 .281 .201	50
							1.424 1.606 1.901		1.321 1.517 1.849				1.346 1.574 1.883	
45		.922 .160 .17				1.304 .206 .9	1.606 .296 .4	1.322 .285 .31	1.189 .191 .107				1.203 .245 .168	45
		.944 1.076 1.199				1.337 1.489 1.585	1.752 1.790 1.819	1.254 1.515 2.047	1.176 1.370 1.583				1.159 1.424 1.790	
40							1.044 .227 .105		.962 .179 .22				1.030 .222 .127	40
							1.026 1.247 1.643		.961 1.154 1.254				1.014 1.244 1.626	
35		.719 .060 .3					.786 .169 .10		.745 .956 1.018				.771 .153 .13	35
		.739 .767 .778					.773 .966 1.021						.745 .956 1.018	
30	.519 .149 .8						.859 .157 .23						.740 .197 .46	30
	.465 .716 .755						.882 .990 1.134						.610 .950 1.082	
25														25
20	.620 .176 .11					.876 .010 .2		.590 .078 .10				.629 .153 .23	20	
	.575 .782 .956					.876 .883 .886		.577 .668 .708				.599 .784 .948		
15	.674 .277 .4											.674 .277 .4	15	
	.646 .948 1.011											.646 .948 1.011		
10	.546 .158 .8						.427 .065 .7					.490 .137 .15	10	
	.535 .685 .778						.429 .496 .526					.436 .652 .763		
5														5
0														0
5						.466 .046 .3		.392 .074 .2				.436 .069 .5	5	
						.447 .503 .526		.392 .441 .462				.447 .488 .524		
10														10
15								.542 .112 .2				.542 .112 .2	15	
								.542 .617 .649				.542 .617 .649		
20														20
25														25
30														30
35														35
40						1.499 .387 .62						1.499 .387 .62	40	
						1.556 1.866 2.228						1.556 1.866 2.228		
45S						1.561 .246 .2						1.561 .246 .2	45S	
						1.561 1.728 1.797						1.561 1.728 1.797		
	15E	60E	105E	150E	165W	120W	75W	30W	15E					

LONGITUDE

CODE:

MEAN	ST. DEV.	N
50%	84%	98%

SEPTEMBER
FL 190

		MEAN												LAT				
70N															70N			
65						.036	.011	8							.036	.011	8	65
60						.039	.046	.050							.038	.046	.050	60
55									.047	.018	25				.047	.018	25	55
50									.045	.064	.087				.045	.064	.087	50
45									.040	.014	27	.052	.015	52	.049	.010	32	45
40									.040	.055	.064	.052	.068	.078	.050	.037	.068	40
35									.066	.021	9				.052	.020	116	35
30									.063	.074	.109				.049	.068	104	30
25															.053	.020	125	25
20									.060	.012	16				.050	.069	110	20
15									.061	.072	.081				.048	.014	171	15
10									.036	.016	10	.044	.014	32	.048	.013	106	10
5									.045	.048	.069	.044	.055	.074	.049	.060	.077	5
0									.045	.020	89	.038	.011	2	.051	.018	17	0
5S									.042	.059	.095	.038	.045	.048	.049	.064	.086	5S
10S									.036	.014	15				.046	.019	32	10S
15S									.036	.049	.059				.038	.064	.083	15S
20S									.048	.029	7				.049	.020	45	20S
25S									.044	.079	.091				.050	.068	.093	25S
30S									.045	.022	17							30S
35S									.044	.062	.090							35S
40S																		40S
45S																		45S
	15E	60E	105E	150E	165W	120W	75W	30W	15E									

LONGITUDE

CODE:

MEAN	ST. DEV.	N
50%	84%	98%

SEPTEMBER
FL 210

		MEAN										LAT						
70N													70N					
65					.045	.016	8						.045	.016	8	65		
					.041	.067	.072						.041	.067	.072			
60								.047	.016	25			.047	.016	25	60		
								.049	.060	.078			.049	.060	.078			
55								.042	.014	27	.053	.015	52	.053	.014	34	55	
								.042	.056	.068	.052	.066	.085	.052	.065	.082		
50								.071	.022	9				.053	.021	139	50	
								.072	.089	.112				.049	.070	108		
45			.065	.015	16			.037	.019	10	.049	.008	7	.043	.017	36	45	
			.064	.073	.096			.029	.057	.072	.044	.057	.061	.043	.056	.077		
40								.033	.034	6	.044	.023	99	.039	.014	28	40	
								.025	.061	.091	.043	.061	107	.039	.052	.069		
35	.065	.013	2			.057	.018	24				.040	.014	26				35
	.065	.073	.077			.056	.074	.090				.028	.038	.061				
30			.045	.028	8	.047	.021	17				.052	.017	21				30
			.036	.081	.090	.042	.062	.095				.055	.069	.081				
25																		25
20			.045	.018	17	.017		1				.046	.015	7				20
			.043	.055	.086							.047	.056	.069				
15			.011		1							.024	.005	2				15
												.024	.027	.029				
10			.029	.002	2							.036	.009	9	.023	1		10
			.029	.030	.031							.033	.047	.052				
5			.018		1													5
0			.019	.008	2													0
			.019	.024	.027													
5						.011	.005	4				.081		1				5
						.011	.016	.017										
10																		10
15												.018	.003	2				15
												.018	.019	.020				
20												.049	.014	2				20
												.049	.059	.062				
25																		25
30																		30
35				.063	1	.040	.001	2										35
						.040	.041	.041										
40			.045	.012	65													40
			.043	.058	.069													
45S			.048	.017	7	.045		1										45S
			.051	.066	.071													
	15E	60E	105E	150E	165W	120W	75W	30W	15E									

LONGITUDE

CODE:

MEAN	ST. DEV.	N
50%	84%	98%

SEPTEMBER
FL 230

										MEAN	LAT	
70N												70N
65					.038 .007 8 .040 .044 .048						.038 .007 8 .036 .044 .048	65
60					.060 .009 2 .060 .065 .068	.051 .029 25 .047 .066 .129					.052 .028 27 .050 .068 .125	60
55						.043 .014 27 .042 .058 .066	.057 .016 52 .056 .070 .090	.051 .017 34 .051 .085 .082			.052 .017 113 .052 .067 .098	55
50					.040 1	.072 .018 9 .077 .082 .102		.056 .024 127 .053 .078 .116			.057 .024 137 .053 .081 .115	50
45		.068 .016 16 .063 .083 .100			.035 .017 10 .025 .053 .065	.059 .051 11 .048 .058 .185	.047 .018 34 .045 .057 .087	.051 .015 106 .053 .064 .084			.051 .021 177 .052 .065 .099	45
40					.044 .008 2 .044 .049 .052	.046 .025 98 .046 .064 .114	.055 .025 6 .049 .088 .091	.054 .022 17 .051 .070 .097			.048 .025 123 .047 .067 .108	40
35		.056 .019 20 .056 .075 .086			.019 .019 2 .019 .032 .037	.035 .015 19 .028 .054 .060					.044 .021 41 .042 .070 .085	35
30	.057 .036 9 .048 .096 .116	.049 .020 17 .043 .070 .093				.052 .017 21 .051 .068 .085					.052 .023 47 .048 .079 .101	30
25												25
20	.048 .020 17 .045 .058 .095	.023 1			.024 .011 4 .023 .034 .039		.049 .015 7 .048 .058 .075				.044 .020 29 .044 .058 .093	20
15	.031 .005 2 .031 .034 .036	.023 1									.028 .006 3 .026 .033 .036	15
10	.033 .002 2 .033 .034 .034					.039 .008 8 .036 .048 .051					.038 .008 10 .033 .048 .051	10
5												5
0	.006 1										.006 1	0
5				.011 .005 4 .012 .016 .016			.074 1				.023 .026 5 .018 .037 .069	5
10												10
15							.024 .011 2 .024 .031 .034				.024 .011 2 .024 .031 .034	15
20							.092 1				.092 1	20
25							.033 .002 2 .033 .034 .035				.033 .002 2 .033 .034 .035	25
30												30
35				.127 1							.127 1	35
40		.049 .013 65 .047 .060 .079									.049 .013 65 .047 .060 .079	40
45S			.048 .019 7 .054 .061 .074	.053 1							.048 .018 8 .050 .060 .074	45S
	15E	60E	105E	150E	165W	120W	75W	30W	15E			
	LONGITUDE											

CODE:

MEAN	ST. DEV.	N
50%	84%	98%

SEPTEMBER
FL 250

		MEAN										LAT																													
70N													70N																												
65					.045	.018	.038	.065	.079	.08			.045	.018	.038	.065	.079	.08	65																						
60										.051	.022	.045	.070	.098	.25			.051	.022	.045	.070	.098	.25	60																	
55										.043	.014	.040	.061	.070	.27	.060	.020	.056	.079	.104	.52		.052	.020	.049	.066	.097	.33	.054	.020	.049	.070	.103	.112	55						
50										.069	.017	.077	.082	.094	.9							.059	.025	.053	.081	.129	.127	.060	.025	.053	.082	.129	.136	50							
45	.079	1		.066	.014	.060	.081	.093	.16		.041	.020	.037	.065	.078	.10	.065	.048	.049	.017	.047	.068	.082	.053	.016	.056	.066	.085	.107	.054	.021	.052	.068	.093	.176	45					
40										.049	1		.052	.037	.050	.067	.102	.95		.054	.013	.052	.060	.082	.10	.055	.023	.057	.070	.103	.18	.052	.034	.045	.067	.104	.124	40			
35				.055	.018	.057	.073	.083	.18	.036	1		.036	.015	.030	.054	.060	.15														.34	.046	.019	.037	.068	.081	.081	35		
30			.049	.030	.049	.084	.095	.07	.051	.019	.048	.071	.066	.17				.21		.057	.017	.055	.074	.085							.45	.053	.020	.052	.079	.089	.089	30			
25																																			25						
20			.048	.020	.046	.058	.098	.18						.025	.012	.028	.035	.038	.3		.049	.016	.055	.058	.074	.7							.28	.046	.020	.040	.057	.097	.097	20	
15																																			15						
10			.036	.002	.036	.037	.038	.2											.8		.037	.007	.037	.045	.048							.10	.037	.006	.035	.044	.047	.047	10		
5																																			5						
0																																			0						
5										.011	.006	.011	.016	.018	.4							.055	1										.020	.018	.014	.031	.032	.5	5		
10																																			10						
15																					.020	.009	.020	.026	.029	.2							.020	.009	.020	.026	.029	.2	15		
20									.028	.002	.028	.029	.029	.2																					.2	20					
25																					.060	1												.060				.1	25		
30																																				30					
35						.099																													.099			.1	35		
40						.051	.015	.051	.067	.084	.65																								.051	.015	.051	.067	.084	.65	40
45S						.051	.020	.055	.064	.078	.7	.060																							.052	.019	.055	.063	.078	.8	45S
	15E	60E	105E	150E	165W	120W	75W	30W	15E																																
	LONGITUDE																																								

CODE:

MEAN	ST. DEV.	N
50%	84%	98%

SEPTEMBER
FL 350

		MEAN												LAT													
70N															70N												
65															65												
60															60												
55															55												
50															50												
45	123 092	050 178	7 203		.113 094	.058 195	.16 219	.073 055	.042 122	.25 152	.083 062	.076 136	.27 282	.081 062	.050 115	.48 187	.068 059	.036 207	.69 207	.088 072	.057 126	.118 267	.083 063	.054 119	.310 234	45	
40	085 085	031 117	14 138		.042 047	.011 048	.8 057	.130 128	.061 204	.7 217	.068 050	.062 078	.32 279	.065 055	.042 100	.133 184	.062 050	.031 093	.12 125	.071 062	.047 102	.18 185	.068 054	.047 105	.224 216	40	
35	080 083	027 108	5 115		.055 048	.024 072	.31 110	.065 064	.023 087	.4 095	.057 056	.020 077	.70 099	.070 042	.056 142	.19 189							.060 053	.030 081	.129 152	35	
30	031		1		.049 045	.025 064	.11 104	.054 052	.022 075	.18 103	.056 054	.007 064	.5 064	.038 038	.020 051	.27 073	.063 065	.024 089	.21 103				.050 049	.024 072	.83 108	30	
25		.044 043	.004 047	.3 049		.079	1				.034 032	.017 048	.26 064	.055	1								.037 038	.018 052	.31 074	25	
20		.058 052	.026 076	.19 123	.060 060	.024 075	.2 082	.023 025	.013 034	.13 048	.060 060	.003 061	.2 062	.048 045	.016 058	.7 078							.046 044	.026 065	.43 108	20	
15		.023 027	.010 031	.3 033	.019 019	.003 021	.2 022	.029 029	.003 031	.2 032	.042 045	.005 046	.3 047										.029 024	.011 041	.10 047	15	
10		.045 042	.015 062	.5 063	.014 014	.001 015	.2 015				.039 038	.009 047	.11 057										.038 035	.014 050	.18 063	10	
5		.027 027	.000 027	.2 027	.013 013	.000 013	.2 013	.026 026	.004 029	.2 030													.022 020	.007 028	.6 030	5	
0		.022		1	.016 016	.000 016	.2 016	.031 031	.006 035	.2 037													.023 022	.008 029	.5 036	0	
5		.025		1	.018 018	.003 019	.2 020	.017 008	.014 036	.7 038				.051 043	.016 064	.3 073							.026 021	.019 038	.13 067	5	
10		.032 032	.004 034	.2 035	.020 020	.001 021	.4 021	.014 008	.012 028	.7 035				.051 050	.007 058	.5 060							.028 019	.018 050	.18 059	10	
15		.029 029	.002 030	.2 030	.022	.000	.2	.004 005	.003 007	.6 007				.041 042	.011 051	.4 052							.020 022	.017 035	.13 052	15	
20		.079 079	.006 083	.2 085	.022 022	.000 022	.2 022	.014 009	.011 026	.5 029				.055	1								.033 017	.027 065	.10 083	20	
25					.048 048	.026 073	.4 076	.027 027	.016 039	.4 049													.037 024	.024 068	.8 075	25	
30					.072 063	.046 113	.5 144	.034		1													.066 048	.044 103	.6 143	30	
35					.119 115	.035 158	.6 172																.119 115	.035 158	.6 172	35	
40					.174 140	.107 281	.66 356																.174 140	.107 281	.66 356	40	
45S					.128 107	.063 177	.7 232	.357		1													.157 134	.096 232	.8 341	45S	
	15E	60E	105E	150E	165W	120W	75W	30W	15E																		

LONGITUDE

CODE: MEAN ST. DEV. N
50% 84% 95%

SEPTEMBER
FL 370

		MEAN												LAT										
70N														.394	.032	9		.394	.032	9	70N			
														.388	.430	.443		.388	.430	.443				
65														.312	.083	18		.327	.065	10	65			
														.302	.093	.459		.321	.081	.444		.274	.105	84
60														.266	.123	23		.176	.092	15	60			
														.286	.404	.424		.158	.280	.311		.229	.111	142
55														.198	.127	96		.140	.086	94	55			
														.107	.336	.440		.126	.214	.368		.179	.113	288
50														.091	.085	55		.255	.110	28	50			
														.065	.139	.347		.293	.361	.369		.159	.074	37
45														.101	.074	26		.157	.243	.309		.061	.204	44
														.080	.052	84		.074	.156	.290		.122	.075	164
40														.087	.157	264		.107	.066	113	45			
														.063	.021	14		.087	.157	.264		.096	.066	342
35														.073	.041	182		.058	.091	102	40			
														.056	.111	116		.078	.124	.212		.073	.048	331
30														.052	.030	67		.044	.082	127	35			
														.060	.035	30		.056	.111	116		.055	.032	146
25														.039	.022	55		.034	.061	083	30			
														.068	.028	22		.068	.090	124		.050	.027	109
20														.023	.013	42		.043		1	25			
														.024	.039	047						.027	.016	47
15														.026	.018	12					20			
														.020	.050	054						.048	.028	44
10														.078	.005	2		.052	.073	.079	15			
														.078	.081	.082						.030	.021	17
5														.056	.010	3					10			
														.058	.064	.067						.025	.046	079
0														.056	.004	4					5			
														.058	.060	.060						.033	.019	11
5														.059	.001	4					0			
														.060	.061	.061						.037	.019	10
10														.065	.005	5					5			
														.063	.071	.072						.036	.028	11
15														.053	.007	3					10			
														.056	.059	.060						.045	.012	5
20														.039	.010	4					15			
														.040	.047	.050						.032	.011	7
25														.051	.008	2					20			
														.051	.056	.058						.034	.015	7
30														.018	.001	2					25			
														.018	.019	.019						.064	.039	9
35														.043	.022	2					30			
														.043	.057	.063						.058	.086	142
40														.222	.138	3					35			
														.134	.326	.406						.106	.063	7
45S														.231	.110	66					40			
														.224	.336	.449						.219	.120	5
														.166	.079	7					45S			
														.132	.258	.264						.181	.084	8
														.282		1						.188	.264	280

LONGITUDE

CODE:

MEAN	ST. DEV.	N
50%	84%	98%

SEPTEMBER
FL 430

		MEAN												LAT				
70N																70N		
65								.459	.154	8							65	
								.470	.632	643								
60							.286	.035	2								60	
							.286	.309	.319			.311	.152	26				
55							.319	.123	6				.230	.111	30		55	
							.301	.473	.482				.196	.359	.456	.357	.145	56
50							.236	.124	10	.134	1		.195	.112	17	.332	.120	7
							.193	.382	.465				.149	.326	.380	.336	.464	.520
45							.175	.096	24	.207	.126	17	.185	.070	18	.142	.074	23
							.155	.263	.368	.202	.342	.419	.185	.261	.288	.129	.154	.349
40							.088	.055	26	.043	.020	9	.161	.088	9	.110	.059	99
							.078	.120	.235	.034	.066	.079	.115	.276	.322	.102	.165	.267
35							.077	.045	29	.070	.019	4	.069	.021	2	.069	.044	14
							.065	.114	.188	.073	.084	.092	.069	.082	.088	.064	.087	.172
30							.064	.038	7	.073	.033	17				.075	.036	21
							.063	.090	.124	.062	.104	.130				.069	.119	.141
25	.098	.012	2	.090														
	.098	.105	.109															
20				.080	.040	19	.044	.019	3	.024	.018	3				.069	.035	7
				.071	.122	.166	.055	.058	.059	.018	.038	.047				.082	.097	.108
15				.017	.012	6												
				.014	.025	.037												
10				.090	.003	2	.020	.008	6				.055	.017	8			
				.090	.092	.093	.022	.027	.031				.049	.068	.069			
5				.016	.001	3	.016	.002	3									
				.018	.017	.018	.017	.018	.018									
0																		
5							.012	.007	4							.082		1
							.009	.018	.023									
10																		
15													.042	.009	2			
													.042	.048	.051			
20																		
25																		
30																		
35																		
40				.324	.165	65												
				.338	.497	.651												
45S				.318	.091	5	.456		1									
				.278	.409	.454												
	15E	60E	105E	150E	165W	120W	75W	30W	15E									
	LONGITUDE																	

CODE:

MEAN	ST. DEV.	N
50%	84%	98%

SEPTEMBER
FL 450

		MEAN												LAT			
70N																	
65																	
60																	
55																	
50																	
45																	
40																	
35																	
30																	
25																	
20																	
15																	
10																	
5																	
0																	
5																	
10																	
15																	
20																	
25																	
30																	
35																	
40																	
45S																	
	15E	60E	105E	150E	165W	120W	75W	30W	15E								
	LONGITUDE																

CODE:

MEAN	ST. DEV.	N
50%	84%	98%

SEPTEMBER
FL 470

		MEAN									LAT				
70N											70N				
65				.564	.170	.8					.564	.170	.8	65	
60				.588	.709	.818					.588	.709	.818	60	
55				.494	.231	.26					.494	.231	.26	55	
50				.501	.684	.987					.501	.684	.987	50	
45				.318	.127	.27	.496	.195	.52	.426	.134	.31	.432	.179	.110
40				.284	.460	.537	.473	.717	.828	.454	.543	.639	.418	.598	.800
35				.397	.153	.9				.309	.132	.116	.315	.135	.125
30				.436	.528	.539				.303	.432	.637	.309	.446	.625
25				.303	.153	.16	.275	.107	.10	.275	.126	.106	.274	.136	.171
20				.302	.397	.626	.255	.375	.468	.240	.406	.568	.240	.403	.600
15							.165	.086	.89	.183	.083	.17	.168	.086	.106
10							.146	.259	.352	.178	.233	.351	.143	.254	.361
5				.126	.086	.16	.088	.043	.14				.108	.060	.30
0				.120	.184	.269	.081	.129	.170				.073	.158	.242
5	.075	.042	.7	.090	.037	.16	.095	.042	.21				.090	.041	.44
10	.081	.107	.133	.078	.121	.165	.086	.148	.175				.064	.129	.173
15															
20	.110	.045	.17	.031	.020	.3				.104	.038	.7	.100	.048	.27
25	.103	.135	.185	.031	.047	.054				.116	.144	.152	.101	.133	.184
30															
35															
40							.072	.011	.8				.081	.021	.10
45	.117	.095	.2	.072	.087	.089	.072	.087	.089				.076	.101	.120
50															
55															
60															
65															
70N															

LONGITUDE

CODE:

MEAN	ST. DEV.	N
50%	84%	98%

SEPTEMBER
FL 490

		MEAN												LAT	
70N															70N
65															65
60															60
55															55
50															50
45															45
40															40
35															35
30															30
25															25
20															20
15															15
10															10
5															5
0															0
5															5
10															10
15															15
20															20
25															25
30															30
35															35
40															40
45S															45S
	15E	60E	105E	150E	165W	120W	75W	30W	15E						

LONGITUDE

CODE:

MEAN	ST. DEV.	N
50%	84%	98%

SEPTEMBER
FL 510

		MEAN												LAT				
70N																70N		
65						.887	.257	8							.887	.257	8	65
						.815	1.241	1.281							.815	1.241	1.281	
60						.731	.288	26							.731	.288	26	60
						.759	.952	1.391							.759	.952	1.391	
55						.557	.200	27	.740	.225	52				.661	.162	31	55
						.556	.689	.987	.684	1.036	1.168				.659	.808	.943	
50						.552	.219	9							.522	.167	116	50
						.615	.711	.842							.513	.692	.908	
45			.443	.197	16	.569	.303	10	.507	.183	7	.450	.340	32	.463	.151	104	45
			.419	.579	.884	.508	.917	1.085	.569	.674	.741	.357	.564	1.420	.468	.620	.762	
40						.292	.138	89							.320	.118	17	40
						.254	.440	.638							.330	.421	.521	
35			.197	.115	16	.166	.066	14							.183	.097	30	35
			.175	.273	.471	.145	.220	.294							.124	.258	.424	
30	.096	.038	7	.133	.046	16	.175	.079	21						.147	.070	44	30
	.102	.129	.150	.126	.181	.219	.172	.232	.356						.108	.204	.334	
25																		25
20	.151	.065	17	.075	.032	3	.075	.032	3	.148	.039	7			.142	.061	27	20
	.163	.220	.256	.077	.102	.113	.077	.102	.113	.159	.177	.205			.153	.205	.250	
15																		15
10	.152	.009	2	.088	.029	8	.088	.029	8						.100	.037	10	10
	.152	.157	.160	.091	.116	.127	.091	.116	.127						.098	.137	.157	
5																		5
0																		0
5				.042	.009	4	.079		1						.049	.017	5	5
				.039	.049	.056									.041	.065	.077	
10																		10
15							.097	.005	2	.097	.005	2			.097	.005	2	15
							.097	.100	.101	.097	.100	.101			.097	.100	.101	
20																		20
25																		25
30																		30
35																		35
40			.602	.228	65										.602	.228	65	40
			.612	.847	.990										.612	.847	.990	
45S				.540	.160	5	.586		1						.548	.147	6	45S
				.579	.668	.771									.583	.639	.768	
	15E	60E	105E	150E	165W	120W	75W	30W	15E									
	LONGITUDE																	

CODE:

MEAN	ST. DEV.	N
50%	84%	98%

SEPTEMBER
FL 550

		MEAN										LAT					
70N													70N				
65					1.486	.219	8						1.486	.219	8	65	
					1.490	1.671	1.817							1.490	1.671	1.817	
60								1.180	.330	26				1.180	.330	26	
								1.161	1.420	1.983				1.161	1.420	1.983	
55								.851	.238	27	1.179	.277	52	1.053	.206	31	
								.785	1.038	1.363	1.149	1.474	1.719	1.087	1.273	1.410	
50								.893	.266	9				.865	.213	116	
								.933	1.110	1.167				.845	1.103	1.284	
45			.679	.216	16			.890	.307	10				.771	.176	104	
			.729	.857	.995			.861	1.242	1.359	.706	.259	.32	.762	.951	1.158	
40								.544	.189	89				.512	.119	17	
								.503	.717	1.021				.513	.609	.742	
35			.377	.161	16			.363	.106	14				.370	.138	30	
			.379	.560	.652			.362	.457	.545				.286	.536	.635	
30		.129	.032	7				.374	.130	21				.298	.138	44	
		.138	.154	.179				.350	.451	.711				.228	.411	.542	
25																	
20		.265	.095	17				.227	.015	3				.287	.070	7	
		.261	.369	.391				.235	.238	.240				.265	.298	.431	
15																	
10		.243	.023	2				.179	.064	8				.192	.064	10	
		.243	.259	.265				.166	.269	.279				.185	.273	.279	
5																	
0																	
5					.156	.033	4				.172		1		.159	.030	5
					.170	.178	.182								.172	.177	.182
10																	
15											.230	.065	2		.230	.065	2
											.230	.274	.292		.230	.274	.292
20																	
25																	
30																	
35																	
40				.992	.333	65								.992	.333	65	
				.891	1.330	1.624								.891	1.330	1.624	
45S					.978	.078	5	1.062		1				.992	.078	6	
					1.008	1.045	1.062							1.021	1.062	1.064	
	15E	60E	105E	150E	165W	120W	75W	30W	15E								
	LONGITUDE																

CODE: MEAN ST. DEV. N
50% 84% 98%

SEPTEMBER
FL 570

	MEAN										LAT													
70N												70N												
65					1.726	.167	8					1.726	.167	8	65									
					1.742	1.861	1.961					1.742	1.861	1.961										
60								1.484	.359	26				1.484	.359	26	60							
								1.401	1.840	2.279				1.401	1.840	2.279								
55								1.059	.215	27	1.438	.276	31	1.278	.208	31	1.299	.288	109	55				
								979	1.291	1.502	1.431	1.762	1.890	1.293	1.470	1.684	1.293	1.600	1.873					
50								1.144	.333	9				1.069	.255	116	1.075	.262	125	50				
								1.212	1.412	1.503				1.046	1.325	1.609	1.070	1.336	1.607					
45			.870	.233	16			1.163	.364	10	1.149	.274	7	.907	.248	32	.974	.229	169	45				
			.850	1.079	1.290			1.061	1.577	1.824	1.168	1.427	1.542	.929	1.123	1.426	.960	1.175	1.519					
40											.738	.205	89				.678	.155	17	.729	.199	105	40	
											.721	.823	1.291				.657	.830	.956	.695	.910	1.278		
35			.568	.218	16						.592	.194	14				.579	.207	30	.434	.785	1.040	35	
			.563	.770	.993						.547	.814	.968				.434	.785	1.040					
30	.193	.037	7			.460	.152	16			.567	.159	21				.466	.194	44	.339	.634	.856	30	
	.187	.220	.258			.435	.620	.769			.558	.642	.981				.339	.634	.856					
25																							25	
20	.406	.131	17						.390	.041	3				.397	.073	7	.402	.112	27				20
	.460	.533	.583						.376	.424	.443				.412	.477	.487	.412	.516	.579				
15																								15
10	.372	.039	2									.296	.075	8				.311	.076	10	.291	.390	.409	10
	.372	.398	.409									.291	.377	.395				.291	.390	.409				
5																								5
0																								0
5						.341	.103	4							.238		1	.320	.101	5	.389	.403	.416	5
						.392	.406	.417										.389	.403	.416				
10																								10
15												.390	.166	2				.390	.166	2	.390	.502	.548	15
												.390	.502	.548				.390	.502	.548				
20																								20
25																								25
30																								30
35																								35
40						1.259	.269	65										1.259	.269	65	1.302	1.522	1.764	40
						1.302	1.522	1.764										1.302	1.522	1.764				
45S									1.279	.048	5	1.420		1				1.303	.068	6	1.294	1.354	1.412	45S
									1.282	1.317	1.335							1.294	1.354	1.412				
	15E	60E	105E	150E	165W	120W	75W	30W	15E															

LONGITUDE

CODE:

MEAN	ST. DEV.	N
50%	84%	98%

OCTOBER
FL 190

		MEAN										LAT	
70N													70N
65					.046 .017 7 .042 .069 074							.046 .017 7 .042 .069 074	65
60								.041 .014 42 .043 .051 .065				.041 .014 42 .042 .051 .065	60
55								.044 .012 38 .045 .052 .068	.044 .013 61 .044 .057 .069	.046 .010 22 .045 .056 .063		.044 .012 121 .044 .056 .068	55
50										.047 .019 103 .044 .062 .096		.047 .019 103 .044 .062 .096	50
45			.050 .009 22 .050 .060 .067		.027 .010 10 .026 .038 045		.033 .016 5 .027 .043 .062	.042 .020 44 .040 .061 .084		.041 .011 117 .042 .050 .072		.042 .014 198 .040 .052 .073	45
40					.046 1		.044 .020 98 .042 .056 .090	.036 1		.040 .014 19 .042 .050 .063		.043 .019 119 .042 .055 .089	40
35			.058 .019 27 .054 .069 108		.038 .015 2 .039 .049 053		.026 .010 17 .024 .037 .047					.045 .022 46 .048 .061 .088	35
30		.039 .009 5 .036 .048 .052	.043 .014 19 .047 .054 .067				.043 .016 32 .044 .055 .077					.043 .015 56 .037 .054 .070	30
25	.077 1											.077 1	25
20		.048 .013 19 .047 .059 .073			.026 1			.030 .009 10 .035 .037 .040				.041 .015 30 .038 .058 .069	20
15													15
10		.030 1					.028 .014 9 .024 .044 .049					.029 .013 10 .025 .043 .049	10
5													5
0													0
5				.016 .003 2 .016 .018 .019				.067 .007 3 .070 .073 .074				.046 .026 5 .057 .071 .074	5
10													10
15													15
20													20
25													25
30													30
35				.052 1								.052 1	35
40			.044 .011 77 .044 .057 .069									.044 .011 77 .044 .057 .069	40
45S				.040 .006 2 .040 .044 .046								.040 .006 2 .040 .044 .046	45S
	15E	60E	105E	150E	165W	120W	75W	30W	15E				
	LONGITUDE												

CODE:

MEAN	ST. DEV.	N
50%	84%	98%

OCTOBER
FL 210

		MEAN										LAT
70N												70N
65						.046 .015 7						65
						.042 .063 .067						
60							.043 .016 42					60
							.043 .055 .075					
55							.044 .014 38	.048 .018 61	.047 .010 22			55
							.045 .054 .065	.049 .060 .088	.045 .059 .064	.047 .015 121		
50										.049 .019 114		50
										.045 .065 .096	.049 .019 114	
45		.053 .010 22				.027 .008 10	.033 .016 5	.039 .020 45	.042 .013 116	.042 .015 198		45
		.053 .062 .074				.028 .036 .040	.027 .043 .061	.037 .053 .080	.043 .051 .079	.039 .053 .078		
40						.022 .013 5	.043 .022 110	.053 .015 9	.042 .013 19	.043 .021 143		40
						.020 .036 .037	.041 .063 .093	.056 .067 .077	.043 .050 .070	.042 .062 .089		
35		.054 .020 33				.038 .014 2	.031 .029 30				.043 .027 65	35
		.050 .064 .102				.038 .047 .050	.024 .041 .113				.043 .059 .120	
30	.038 .008 5	.046 .016 19										30
	.035 .045 .052	.046 .057 .076					.041 .012 32				.042 .013 56	
							.044 .050 .065				.038 .054 .070	
25												25
20	.050 .013 19	.004 1				.010 .010 9		.033 .012 10			.035 .020 39	20
	.048 .061 .075					.005 .019 .028		.036 .041 .051			.038 .056 .069	
15												15
10	.030 1						.031 .016 9				.031 .015 10	10
							.026 .051 .054				.026 .051 .053	
5												5
0	.022 1										.022 1	0
5				.016 .003 2				.061 .009 3			.043 .023 5	5
				.016 .018 .019				.061 .068 .071			.050 .065 .070	
10												10
15												15
20												20
25												25
30												30
35		.040 1	.063 .028 2								.055 .025 3	35
			.063 .081 .089								.040 .074 .088	
40		.047 .011 76	.044 1								.047 .011 77	40
		.046 .058 .070									.045 .058 .070	
45S			.043 .005 2								.043 .005 2	45S
			.043 .046 .048								.043 .046 .048	
	15E	60E	105E	150E	165W	120W	75W	30W	15E			
	LONGITUDE											

CODE: MEAN ST. DEV. N
50% 84% 98%

OCTOBER
FL 230

		MEAN										LAT													
70N													70N												
65					.046	.018	7						.046	.018	7	65									
					.042	.064	.076						.042	.064	.076										
60								.046	.022	42				.046	.022	42	60								
								.046	.059	.113				.046	.059	.113									
55								.045	.016	38	.052	.024	61	.048	.012	22	55								
								.046	.057	.080	.049	.067	.103	.047	.060	.071	.048	.020	121	.099					
50													.049	.020	114		.049	.020	114						
													.044	.067	.103		.044	.067	.103						
45			.056	.011	22			.026	.009	10	.050	.019	10	.042	.025	51	.043	.016	116	.044	.019	209	45		
			.057	.065	.079			.027	.036	.037	.051	.069	.074	.040	.054	.113	.041	.051	.090	.042	.058	.091	.042	.058	.091
40								.038		1	.043	.019	108	.046	.004	8	.044	.016	19	.043	.018	136	40		
											.042	.058	.078	.047	.051	.051	.044	.057	.077	.040	.057	.079	.040	.057	.079
35	.041	1			.056	.020	31				.055	.013	2	.028	.015	22				.044	.022	56	35		
					.053	.067	.103				.055	.064	.067	.025	.036	.071				.046	.062	.083	.046	.062	.083
30		.038	.010	5	.046	.016	19							.042	.012	33				.043	.014	57	30		
		.037	.047	.053	.046	.060	.076							.043	.052	.065				.043	.055	.072	.043	.055	.072
25	.066	1																		.066		1	25		
20		.052	.013	19							.024	.026	3				.035	.011	10	.044	.017	32	20		
		.052	.064	.076							.012	.045	.059				.037	.043	.057	.042	.061	.073	.042	.061	.073
15		.040		1																.040		1	15		
10		.031		1							.033	.019	9							.033	.018	10	10		
											.029	.052	.064							.029	.050	.064	.029	.050	.064
5																									
0																									
5						.016	.003	2						.058	.010	3				.041	.022	5	5		
					.016	.018	.019							.052	.066	.071				.050	.059	.070	.050	.059	.070
10																									
15																									
20																									
25																									
30																									
35	.053	1			.065		1	.057		1										.058	.005	3	35		
																				.057	.062	.065	.057	.062	.065
40			.048	.013	77			.044		1										.048	.013	78	40		
			.048	.062	.074															.048	.061	.074	.048	.061	.074
45S						.045	.005	2			.045	.048	.050							.045	.005	2	45S		
																				.045	.048	.050	.045	.048	.050

15E 60E 105E 150E 165W 120W 75W 30W 15E

LONGITUDE

CODE: MEAN ST. DEV. N
50% 84% 98%

OCTOBER
FL 250

		MEAN												LAT		
70N																70N
65					.045 .018 7 .047 .058 076									.045 .018 7 .047 .058 076		65
60								.049 .024 41 .046 .061 105						.049 .024 41 .046 .061 105		60
55								.046 .019 38 .047 .058 084		.058 034 61 .049 .074 146		.049 013 23 .050 062 077		.052 027 122 .042 069 128		55
50					.024 1							.051 021 109 .047 068 123		.051 021 110 .047 068 122		50
45				.060 014 22 .062 072 089		.027 010 10 .028 037 044		.045 015 10 .043 054 075		.043 029 44 .043 051 090		.046 020 116 .042 056 110		.046 022 202 .039 060 598		45
40						.039 005 7 .039 044 046		.044 022 104 .042 057 104		.051 023 2 .051 066 072		.044 020 19 .043 061 082		.044 021 132 .040 058 103		40
35	049 1			.056 022 30 .053 068 105		.060 004 3 .058 063 065		.027 014 22 .025 045 054						.045 023 56 .046 054 084		35
30		.039 009 5 .038 049 053		.047 017 19 .046 061 079				.043 012 33 .043 051 069						.044 014 57 .044 053 071		30
25																25
20		.052 014 19 .050 066 078		.064 1		.041 017 4 .046 052 056				.038 011 10 .041 047 054				.047 015 34 .044 061 076		20
15		.021 003 2 .021 022 023												.021 003 2 .021 022 023		15
10		.031 1						.032 017 9 .031 050 058						.032 016 10 .029 048 058		10
5																5
0																0
5						.017 003 2 .017 018 019				.055 008 3 .051 061 065				.040 020 5 .048 056 065		5
10																10
15																15
20					.048 1									.048 1		20
25																25
30																30
35				.034 004 2 .034 036 037		.061 1								.043 013 3 .037 053 060		35
40				.051 015 77 .049 066 085										.051 015 77 .049 066 085		40
45S						.047 004 2 .047 050 051								.047 004 2 .047 050 051		45S
	15E	60E	105E	150E	165W	120W	75W	30W	15E							
	LONGITUDE															

CODE:

MEAN	ST. DEV.	N
50%	84%	98%

OCTOBER
FL 270

											MEAN			LAT													
70N															70N												
65					.058	.016	7					.058	.016	7	65												
					.057	.068	.085					.057	.068	.085													
60								.053	.029	41				.053	.029	41	60										
								.046	.067	.138				.046	.067	.138											
55								.050	.026	37	.068	.048	61	.053	.019	24	.059	.038	122	55							
								.045	.065	.110	.050	.110	.199	.052	.089	.095	.048	.082	.172								
50														.053	.025	112	.053	.025	112	50							
														.049	.074	.126	.048	.074	.126								
45			.065	.020	22			.030	.011	10	.035	.018	8	.045	.027	42	.048	.026	117	.048	.026	199	45				
			.064	.076	.116			.035	.041	.042	.031	.050	.067	.041	.057	.102	.043	.060	.145	.043	.060	.145					
40								.075		1	.046	.027	103	.053	.002	3	.043	.022	19	.046	.026	126	40				
											.041	.060	.141	.052	.055	.056	.042	.063	.085	.040	.060	.139					
35			.060	.021	28						.035	.038	22							.049	.033	50	35				
			.055	.075	.109						.026	.038	.143							.046	.070	.135					
30		.041	.010	5	.047	.017	19				.046	.016	33							.046	.016	57	30				
		.040	.051	.052	.048	.058	.083				.044	.055	.084							.045	.055	.082					
25	.040	1																		.040		1	25				
20		.052	.015	19	.024	.013	2				.008	.006	3	.039	.012	10	.038	.050	.061	.043	.018	34	20				
		.047	.071	.081	.024	.033	.036				.010	.013	.014							.041	.061	.081					
15		.063		1																.063		1	15				
10		.032		1																.034	.017	10	10				
											.034	.018	9							.028	.057	.065					
5																							5				
0					.027		1																0				
																				.027		1					
5						.017	.002	2				.050	.007	3				.037	.017	5	.040	.055	.057	5			
						.017	.018	.019				.054	.056	.057													
10																								10			
15																								15			
20						.070		1													.070		1	20			
						.025		1													.025		1	25			
25																								25			
30					.035		1													.035		1	30				
35	.072	1			.058		1	.144		1										.091	.038	3	.072	.121	.141	35	
					.057	.026	77	.056		1										.057	.026	78	.054	.070	.129	40	
					.053	.070	.130													.054	.070	.129					
45S						.058	.005	2				.058	.005	2							.058	.005	2	.058	.061	.062	45S
						.058	.061	.062																			

LONGITUDE

CODE:

MEAN	ST. DEV.	N
50%	84%	98%

OCTOBER
FL 290

		MEAN			LAT				
70N									
65				.069 .025 7 .072 .097 105			.069 .025 7 .072 .097 105		
60					.062 .040 41 .050 .089 168		.062 .040 41 .050 .089 168		
55					.055 .040 37 .045 .067 184	.081 .063 61 050 150 235	.063 .037 28 .054 .080 177	.069 .053 126 .048 .098 229	
50				.027 1	.079 1		.057 .028 118 .051 .079 133	.057 .028 120 .051 .079 133	
45	.044 .008 3 .047 .050 052		.072 .022 22 .056 .093 121	.036 .016 11 .030 .050 066	.046 .022 8 .040 .065 085	.051 .027 50 .044 .074 124	.052 .033 120 .044 .068 171	.052 .030 214 .039 .073 149	
40	.050 .016 6 .066 .073 078			.071 .055 6 .045 .094 180	.047 .030 104 .040 .063 150	.060 .024 5 055 075 101	.048 .028 19 .041 .077 108	.049 .031 140 .039 .070 156	
35	.047 .015 4 .045 .058 068		.058 .025 32 .053 .076 131	.030 .002 3 .032 .032 032	.029 .015 23 .024 .037 067			.046 .025 62 .042 .064 122	
30	.043 .004 3 .043 .046 047	.040 .014 9 .044 .053 058	.048 .017 19 .051 .054 087	.092 1	.047 .019 32 .044 .068 093			.047 .018 64 .036 .059 093	
25	.060 .003 2 .060 .061 062			.033 .003 3 .033 .035 036				.043 .013 5 .036 .059 062	
20		.053 .017 19 .049 .073 085	.041 1	.031 .020 9 .029 .040 071		.040 .013 10 039 047 065		.044 .019 39 .043 .066 083	
15				.012 1	.012 .002 2 .012 .013 013			.012 .001 3 .012 .013 013	
10		.033 1	.022 1			.034 .016 9 .031 .053 058		.033 .015 11 .031 .050 058	
5									
0		.023 1						.023 1	
5				.018 .002 2 .018 .019 019		.052 .004 3 .052 .055 057		.038 .017 5 .046 .054 057	
10									
15									
20									
25									
30		.095 .042 2 .095 .124 135	.059 .013 2 059 .068 071					.077 .036 4 .063 .106 133	
35			.052 .020 3 .061 .067 070					.052 .020 3 .061 .067 070	
40		.057 .041 76 .056 .083 169						.067 .041 76 .056 .083 169	
45S			.096 .041 2 .096 .123 134					.096 .041 2 .096 .123 134	
	15E	60E	105E	150E	165W	120W	75W	30W	15E

LONGITUDE

CODE: MEAN ST. DEV. N
50% 84% 98%

OCTOBER
FL 310

		MEAN												LAT		
70N															.185 .081 9 .229 .255 261	70N
65								.098 .048 7 .089 .156 .181	.249 .029 3 .227 .228 .229	.173 .089 7 .231 .261 .261	.057 .009 9 .053 .058 .072	.118 .050 5 .088 .170 .195	.106 .069 24 .072 .189 .269			65
60								.077 .064 42 .057 .114 .260	.049 .000 3 .049 .049 .049	.081 .051 10 .059 .131 .186	.076 .061 55 .056 .113 .251					60
55								.052 .019 5 .044 .061 .087	.064 .049 37 .047 .083 .203	.104 .079 66 .061 .200 .277	.070 .052 40 .054 .097 .248	.083 .067 148 .051 .164 .230				55
50								.092 .053 2 .092 .127 .142	.206 .022 2 .206 .221 .227	.109 .019 2 .109 .122 .127	.063 .037 123 .051 .096 .183	.066 .041 129 .052 .099 .191				50
45	.054 .003 3 .055 .056 .057		.081 .034 22 .070 .102 .169	.038 .008 2 .036 .041 .044	.049 .029 20 .042 .065 .120	.064 .040 19 .049 .088 .171	.056 .031 45 .046 .079 .146	.057 .039 117 .046 .076 .189	.059 .037 228 .032 .085 .176							45
40	.086 .051 5 .063 .117 .176		.049 .002 2 .049 .050 .051	.045 .010 6 .042 .056 .061	.072 .050 10 .060 .079 .190	.055 .040 120 .045 .082 .186	.050 .020 7 .050 .055 .086	.050 .032 21 .045 .079 .128	.056 .040 171 .046 .081 .166							40
35	.054 .014 3 .056 .066 .070		.066 .027 35 .057 .091 .131		.042 .026 10 .034 .060 .101	.028 .010 24 .030 .038 .048			.050 .028 72 .043 .069 .128							35
30	.047 .009 5 .042 .058 .059	.046 .008 5 .047 .055 .055	.049 .019 19 .049 .060 .093	.083 .035 3 .061 .109 .129	.034 .027 8 .025 .037 .094	.048 .018 32 .047 .067 .087			.048 .021 72 .037 .051 .107							30
25	.039 .009 4 .043 .046 .047			.044 .009 3 .042 .051 .054	.028 .011 5 .029 .036 .047				.036 .012 12 .030 .047 .053							25
20		.054 .018 20 .050 .078 .089	.027 .004 3 .029 .030 .031		.036 .019 14 .038 .052 .069		.039 .011 10 .035 .050 .058		.043 .018 47 .042 .062 .083							20
15		.040 .010 2 .040 .047 .050	.027 .014 6 .034 .038 .041		.015 .001 3 .014 .015 .016			.026 .014 11 .030 .039 .048								15
10		.035 .002 2 .035 .036 .037	.042 .003 2 .042 .044 .045	.015 .001 2 .015 .016 .016	.010 1	.034 .021 9 .033 .052 .073		.031 .018 16 .020 .044 .070								10
5				.014 .001 2 .014 .015 .015				.014 .001 2 .014 .015 .015								5
0				.015 .007 3 .020 .021 .021				.015 .007 3 .020 .021 .021								0
5				.020 .003 2 .020 .021 .022			.067 .018 3 .078 .081 .082	.048 .027 5 .041 .079 .082								5
10																10
15				.016 .016 2 .016 .027 .031				.016 .016 2 .016 .027 .031								15
20			.080 .011 2 .080 .087 .091	.098 .025 2 .098 .115 .122				.089 .022 4 .080 .108 .121								20
25			.105 .011 2 .105 .112 .116					.105 .011 2 .105 .112 .116								25
30			.080 .024 5 .090 .101 .103					.080 .024 5 .090 .101 .103								30
35	.028 1		.074 .025 3 .076 .095 .103	.070 .057 10 .059 .074 .203				.068 .051 14 .059 .080 .197								35
40			.081 .062 76 .059 .105 .258	.064 1				.081 .061 77 .059 .103 .257								40
45S				.155 .093 2 .155 .217 .243				.155 .093 2 .155 .217 .243								45S

LONGITUDE

CODE: MEAN ST. DEV. N
 50% 84% 98%

OCTOBER
 FL 330

		MEAN												LAT								
70N									.325	1	.152	.101	.12				.165	.107	.13	70N		
											.111	.283	.305				.130	.292	.321			
65									.176	.104	.07			.135	.108	.20	.113	.086	.14	.141	.109	.53
									.123	.239	.364			.062	.314	.337	.067	.247	.265	.070	.279	.340
60									.113	.087	.57			.284	.029	.14	.141	.096	.17	.145	.103	.88
									.083	.194	.326			.289	.313	.321	.088	.273	.308	.077	.284	.325
55								.121	.037	.4				.081	.061	.45	.142	.097	.80	.089	.066	.62
								.118	.157	.168				.236	.077	.4	.061	.179	.254	.113	.085	.195
50								.089	.063	.7				.111	.086	.11	.123	.065	.7	.075	.049	.130
								.052	.170	.190				.087	.178	.300	.124	.132	.246	.059	.109	.224
45								.096	.047	.22				.090	.075	.10	.075	.041	.78	.064	.049	.119
								.078	.132	.215				.043	.060	.199	.061	.117	.188	.047	.097	.215
40	.083	.049	.5					.080	.037	.6				.045	.017	.9	.061	.044	.118	.074	.031	.11
	.059	.118	.170					.092	.111	.122				.038	.068	.070	.060	.096	.206	.052	.091	.148
35	.057	.031	.9					.063	.027	.35				.051	.035	.27	.034	.029	.26			
	.055	.059	.126					.053	.082	.127				.043	.072	.145	.030	.043	.114			
30	.044	.000	.2	.049	.009	.6		.049	.021	.19				.041	.021	.18	.050	.021	.33			
	.044	.044	.044	.051	.055	.064		.046	.061	.099				.045	.061	.080	.046	.071	.101			
25	.064		1	.066		1																
								.034	.001	.3				.039	.029	.20						
20				.055	.020	.22		.048	.006	.2				.033	.023	.13	.034	.012	.10			
				.052	.073	.092		.048	.051	.053				.029	.044	.090	.032	.045	.055			
15				.026	.003	.3		.045		1												
				.026	.028	.029																
10				.038	.004	.2		.043		1				.036	.018	.9						
				.038	.041	.042								.037	.055	.060						
5				.025		1		.018	.005	.2												
								.018	.021	.022												
0				.016	.010	.4																
				.011	.022	.031																
5				.024	.017	.6		.020	.005	.7				.088	.022	.3						
				.019	.035	.054		.019	.026	.028				.084	.106	.116						
10				.031	.005	.7		.024	.007	.6												
				.031	.038	.038		.023	.028	.036												
15				.025	.016	.4		.026	.009	.4												
				.028	.037	.044		.022	.032	.040												
20				.068	.016	.2		.057	.027	.9												
				.068	.078	.082		.059	.084	.097												
25				.086	.030	.11		.086	.030	.11												
				.087	.099	.140		.079	.141	.217												
30				.069	.015	.5		.105	.050	.15												
				.071	.082	.085		.089	.142	.227												
35	.030		1					.117	.096	.11												
				.062		1		.089	.123	.358												
40				.114	.089	.76																
				.082	.195	.406																
45S				.211	.136	.2		.211	.136	.2												
				.211	.303	.342		.211	.303	.342												
	15E	60E	105E	150E	165W	120W	75W	30W	15E													

LONGITUDE

CODE: MEAN ST. DEV. N
50% 84% 98%

OCTOBER
FL 350

	MEAN											LAT				
70N												.329 .022 9	.187 .088 18	.279 .027 4	.240 .095 31	70N
												.327 .345 .368	.217 .280 .301	.269 .302 .320	.258 .327 .360	
65												.232 .092 35	.266 .075 22	.297 .057 10	.254 .084 70	65
												.239 .295 .449	.285 .332 .350	.299 .347 .381	.289 .294 .297	
60												.291 .063 8	.279 .078 9	.163 .091 82	.174 .100 128	60
												.291 .360 .380	.312 .301 .348	.179 .228 .247	.058 .256 .311	
55												.267 .063 17	.218 .061 8	.110 .080 71	.138 .100 231	55
												.267 .333 .373	.225 .286 .299	.143 .283 .362	.064 .157 .292	
50												.165 .116 9	.147 .070 4	.092 .079 23	.084 .057 144	50
												.127 .292 .351	.173 .205 .209	.055 .186 .257	.062 .139 .249	
45	.054 .011 7											.089 .079 40	.093 .065 74	.075 .059 120	.087 .069 298	45
	.052 .058 .075	.118 .063 23										.062 .184 .305	.054 .201 .266	.049 .122 .242	.057 .153 .288	
40	.070 .032 14											.070 .058 163	.085 .018 5	.060 .040 22	.058 .053 239	40
	.059 .112 .131	.073 .019 6										.040 .091 .137	.054 .102 .274	.086 .105 .106	.054 .103 .255	
35	.057 .023 14											.060 .031 48	.045 .036 28		.059 .033 143	35
	.056 .058 .104	.067 .034 47										.055 .068 .072	.052 .089 .150		.052 .089 .150	
30	.082 .017 6	.062 .023 9										.049 .029 29	.053 .021 11	.049 .031 59	.049 .007 3	30
	.056 .078 .091	.040 .070 .129										.056 .070 .089	.042 .069 .156	.049 .080 .123	.046 .055 .058	
25	.069 .020 5	.059 .022 12										.039 .008 3	.040 .021 54		.052 .005 3	25
	.074 .088 .095	.051 .082 .097	.038 .013 10									.038 .046 .050	.036 .058 .093		.053 .056 .057	
20		.052 .021 32										.029 .020 34		.035 .008 10	.055	20
		.044 .071 .096	.051 .011 4									.024 .044 .077		.036 .043 .045	.055	
15		.029 .006 8	.041 .013 4									.019	1	.014 .008 19		15
		.030 .035 .038	.044 .053 .056									.016 .019 .030				
10		.031 .008 7	.028 .015 4									.012 .009 4	.013 .011 8	.035 .016 9		10
		.029 .035 .046	.022 .040 .052									.012 .020 .024	.014 .020 .034	.032 .051 .061		
5		.032	1	.014 .001 2								.013 .010 6	.010 .002 2			5
				.014 .015 .015								.014 .021 .028	.010 .011 .012			
0				.013 .009 6								.016 .011 7	.012 .005 2			0
				.017 .020 .021								.019 .026 .027	.012 .015 .017			
5				.017 .018 6								.022 .005 8		.097 .020 3		5
				.013 .030 .048								.021 .028 .031		.085 .112 .123		
10				.022 .018 5								.019 .005 7				10
				.026 .037 .047								.018 .025 .026				
15				.038 .029 5								.027 .013 10				15
				.028 .061 .066								.025 .039 .048				
20				.041 .028 7								.042 .029 17				20
				.033 .063 .090								.036 .077 .094				
25				.074 .030 7								.083 .068 27				25
				.093 .097 .099								.070 .117 .248				
30				.173 .128 3								.120 .080 22				30
				.086 .268 .342								.102 .194 .305				
35	.042	1		.096 .088 9								.123 .130 18				35
				.055 .173 .281								.070 .142 .478				
40	.042 .013 3			.167 .122 77								.094	1			40
	.036 .052 .059			.124 .292 .507												
45S	.049 .010 3											.230 .142 2				45S
	.050 .057 .060											.230 .326 .365				

LONGITUDE

CODE:

MEAN	ST. DEV.	N
50%	84%	98%

OCTOBER
FL 370

		MEAN												LAT						
70N									.289	.016	2			.239	1			.272	.027	3
									.289	.300	.304							.273	.295	.304
65									.249	.088	50			.218	.057	11		.192	.042	8
									.227	.317	.439			.248	.263	.266		.184	.242	.261
60									.246	.100	2			.185	.097	58		.196	.065	5
									.249	.064	17			.182	.288	.415		.186	.239	.309
55									.284	.079	19			.134	.093	57		.207	.112	74
									.291	.373	.394			.108	.260	.315		.210	.326	.383
50									.207	.098	30			.118	.093	36		.124	.073	13
									.186	.335	.382			.112	.208	.348		.143	.300	.411
45	.029	.000	3			.150	.070	23	.141	.104	44			.091	.079	32		.105	.071	50
	.029	.029	.029			.143	.207	.294	.113	.261	.372			.064	.135	.316		.091	.181	.271
40	.122	.045	5			.127	.090	12	.080	.053	42			.061	.034	36		.085	.059	253
	.100	.165	.193			.124	.218	.284	.057	.125	.216			.053	.078	.167		.125	.198	.289
35	.145		1			.078	.041	40	.060	.024	14			.067	.036	91		.066	.048	54
						.068	.105	.186	.060	.085	.094			.059	.190	.169		.056	.101	.182
30	.100	.019	3			.052	.010	5	.039	.015	10			.059	.039	96		.065	.034	34
	.103	.116	.121			.044	.076	.108	.037	.052	.068			.053	.083	.185		.052	.095	.149
25				.115		1			.032	.002	2			.039	.025	77				
									.032	.033	.034			.033	.051	.097				
20				.065	.025	21			.056	.013	2			.036	.032	16		.039	.017	10
				.066	.093	.112			.056	.065	.068			.028	.055	.119		.035	.046	.077
15				.027	.003	2	.022	1						.014	.008	8				
				.027	.028	.029			.016	.022	.027			.016	.022	.027				
10				.039	.004	3			.017	.005	4			.012	.009	13		.035	.014	9
				.037	.042	.044			.018	.021	.023			.018	.022	.023		.033	.050	.056
5				.019	.018	2			.021	.007	10			.011	.011	6				
				.019	.030	.035			.018	.025	.036			.009	.020	.030				
0									.021	.005	11			.008	.008	9				
									.022	.025	.027			.002	.018	.021				
5									.020	.009	11			.013	.012	12		.103	.023	3
									.020	.026	.034			.009	.027	.035		.104	.122	.130
10									.018	.010	18			.009	.008	5				
									.019	.027	.033			.007	.014	.024				
15							.043	.013	2		.020	.011	18							
							.043	.051	.055		.019	.030	.042							
20							.077	.004	2		.040	.027	17							
							.077	.080	.081		.034	.070	.084							
25						0.000		1		.073	.060	10								
									.080	.134	.179									
30							.204	.135	4		.112	.026	9							
							.151	.319	.411		.111	.158	.157							
35							.286	.109	6		.163	.080	8							
							.277	.419	.412		.158	.232	.303							
40							.216	.123	76		.267		1							
							.179	.332	.503											
45S									.326	.220	2									
									.326	.475	.536									
	15E	60E	105E	150E	165W	120W	75W	30W	15E											

LONGITUDE

CODE:	MEAN	ST. DEV.	N
	50%	84%	98%

OCTOBER
FL 390

		MEAN												LAT						
70N										.329	.073	9	.347	.067	9		.338	.071	18	70N
										.338	.389	.430	.369	.406	.436		.264	.400	.440	
65					.401	.111	6	.300	.103	61	.306	.028	7				.309	.102	74	65
					.435	.470	.488	.286	.408	.500	.307	.330	.341				.301	.426	.499	
60					.308	.078	40	.328	.082	24	.248	.112	54	.172	.099	17	.277	.062	10	60
					.331	.369	.423	.348	.405	.469	.255	.362	.507	.177	.274	.347	.300	.329	.354	
55					.257	.093	55	.285	.118	17	.177	.102	54	.252	.115	103	.202	.096	86	55
					.237	.361	.411	.280	.398	.446	.167	.296	.367	.258	.371	.434	.207	.313	.382	
50					.259	.080	14	.207	.091	28	.167	.077	14	.203	.117	27	.144	.099	122	50
					.267	.338	.428	.189	.321	.365	.144	.237	.299	.201	.333	.392	.120	.265	.379	
45	.091	.016	4		.175	.078	26	.124	.097	24	.159	.082	39	.144	.087	76	.114	.086	127	45
	.088	.103	.114		.173	.276	.312	.148	.189	.364	.077	.212	.371	.137	.228	.370	.080	.213	.327	
40	.136	.028	2		.078	.062	12	.107	.044	19	.078	.041	18	.108	.075	219	.102	.024	4	40
	.136	.155	.163		.069	.126	.211	.102	.148	.184	.085	.114	.145	.088	.172	.327	.110	.121	.124	
35					.090	.063	31	.027	.013	10	.079	.039	5	.076	.043	49				
					.082	.121	.270	.026	.032	.055	.075	.113	.138	.068	.118	.177				
30		.056	.009	5	.057	.028	19	.217	.061	3	.076	.092	8	.076	.042	35				
		.060	.063	.068	.050	.086	.109	.230	.297	.293	.034	.106	.280	.057	.182					
25	.070	.013	2					.107	.026	2	.075	.034	9							
	.070	.079	.082					.107	.125	.132	.077	.111	.128							
20		.066	.028	19					.038	.014	4			.036	.020	10	.046	.002	2	20
		.066	.090	.126					.037	.051	.055			.034	.042	.080	.046	.047	.048	
15		.016		1					.012	.011	6						.050	.001	2	15
									.008	.025	.028						.050	.051	.051	
10		.038	.004	3	.043		1		.010	.011	12	.040	.016	9			.053	.005	3	10
		.037	.041	.043					.008	.022	.028	.036	.060	.063			.050	.057	.061	
5									.012	.015	17						.048	.009	3	5
									.004	.029	.045						.043	.055	.060	
0									.018	.014	21						.040	.015	3	0
									.016	.031	.045						.046	.051	.054	
5						.017	.016	4	.017	.012	18			.095	.023	3	.048	.000	3	5
						.014	.032	.039	.016	.028	.039			.098	.114	.120	.048	.048	.048	
10						.021	.014	16	.020	.010	9						.046	.002	2	10
						.019	.033	.052	.024	.028	.033						.046	.047	.046	
15						.022	.013	14	.030	.007	2									
						.023	.038	.042	.030	.034	.036									
20						.031	.026	11												
						.024	.052	.090												
25						.071	.046	10												
						.076	.116	.149												
30	.151		1			.125	.068	9												
						.101	.211	.228												
35					.131	.053	10	.227	.104	17										
					.097	.183	.230	.198	.371	.419										
40					.264	.115	76													
					.252	.365	.523													
45S						.466	.312	2												
						.466	.678	.766												
	15E	60E	105E	150E	165W	120W	75W	30W	15E											

LONGITUDE

CODE:

MEAN	ST. DEV.	N
50%	84%	98%

OCTOBER
FL 410

										MEAN	LAT
70N										.580 .046 .2	70N
65				.415 .179 .7						.580 .046 .2	65
				.374 .623 .699						.394 .035 .2	
60			.574 .068 .3	.273 .062 .8	303 .148 .45					.234 .099 .26	60
			.561 .630 .650	.290 .319 .338	291 .431 .668					.260 .349 .369	
55			.314 .110 .24	.251 .063 .6	198 .099 .46					.161 .105 .38	55
			.303 .451 .502	.293 .317 .333	188 .293 .413					.129 .267 .377	
50			.266 .112 .39	.114 .101 .13	184 .106 .41					.233 .120 .58	50
			.244 .401 .452	.091 .195 .343	155 .298 .425					.204 .362 .466	
45	.048 .014 .3			.198 .096 .27	160 .114 .47					.185 .123 .54	45
	.044 .059 .065			.175 .321 .392	.143 .280 .391					.135 .320 .442	
40	.124 .049 .12			.117 .069 .13	132 .090 .167					.141 .097 .117	40
	.122 .151 .230			.098 .183 .263	.104 .163 .268	.076 .1				.104 .237 .405	
35	.082 .033 .4			.108 .067 .35	100 .060 .32					.103 .168 .283	35
	.070 .109 .133			.066 .018 .3	120 .054 .14					.074 .150 .273	
30	.060 .007 .4	.062 .004 .5	.057 .025 .19	.075 .080 .082	.080 .053 .32					.085 .049 .35	30
	.059 .066 .069	.062 .066 .068	.053 .088 .097		.073 .121 .225	.076 .116 .227				.075 .046 .95	
25	.058 .015 .4	.029 .002 .2			.064 .043 .24					.067 .104 .220	25
	.050 .069 .075	.029 .030 .031			.052 .124 .153					.048 .112 .148	
20		.059 .039 .24			.047 .028 .20					.036 .015 .10	20
		.059 .087 .144			.053 .070 .104					.035 .043 .064	
15					.018 .015 .14						15
					.017 .037 .042						
10		.038 .1		.017 .1	.012 .010 .7	.042 .020 .9					10
					.019 .021 .025	.039 .059 .077					
5					.015 .006 .3						5
					.018 .019 .020						
0					.020 .004 .2						0
					.020 .022 .023						
5			.033 .010 .2						.082 .032 .3		5
			.033 .039 .042						.081 .106 .119		
10										.047 .1	10
15			.064 .030 .3								15
			.060 .089 .101								
20			.048 .049 .7								20
			.023 .119 .129								
25			.049 .044 .8								25
			.027 .110 .117								
30			.090 .028 .8								30
			.103 .111 .112								
35			.365 .1	.250 .156 .29							35
				.203 .384 .637							
40			.289 .123 .76	.324 .1							40
			.280 .399 .550								
45S			.570 .232 .3								45S
			.602 .762 .828							.570 .232 .3	
	15E	60E	105E	150E	165W	120W	75W	30W	15E		
	LONGITUDE										

CODE:

MEAN	ST. DEV.	N
50%	84%	98%

OCTOBER
FL 430

		MEAN												LAT			
70N																	70N
65																	65
60																	60
55																	55
50																	50
45																	45
40																	40
35																	35
30																	30
25																	25
20																	20
15																	15
10																	10
5																	5
0																	0
5																	5
10																	10
15																	15
20																	20
25																	25
30																	30
35																	35
40																	40
45S																	45S
15E	60E	105E	150E	165W	120W	75W	30W	15E									
LONGITUDE																	

CODE: MEAN ST. DEV. N
50% 84% 98%

OCTOBER
FL 450

		MEAN										LAT										
70N													70N									
65						.663	.276	7				.663	.276	7	65							
						.800	.882	1.002				.800	.882	1.002								
60										.463	.225	.42	.463	.225	.42	60						
										.402	.648	1.059	.402	.648	1.059							
55										.290	.140	.38	.391	.200	.60	.273	.167	.21	55			
										.296	.435	.547	.352	.568	.689	.202	.395	.689				
50																.255	.138	.104	50			
																.229	.407	.554				
45			.293	.133	.22				.209	.152	.10	.337	.261	.5	.236	.135	.42	.210	.122	.116	45	
			.271	.428	.565				.171	.349	.510	.217	.479	.805	.209	.421	.532	.186	.337	.551		
40			.063	.040	.2							.176	.113	.97				.202	.094	.19	40	
			.063	.090	.101							.149	.277	.468				.215	.301	.346		
35			.144	.102	.26							.104	.048	.17							35	
			.113	.188	.427							.099	.138	.210								
30		.078	.009	.5	.073	.032	.19					.116	.083	.32				.098	.068	.56	30	
		.074	.085	.093	.067	.109	.130					.090	.159	.370				.068	.127	.331		
25																					25	
20		.083	.045	.19				.085	1							.044	.016	.10	.070	.041	.30	20
		.077	.125	.186												.045	.058	.063	.058	.089	.183	
15																					15	
10		.039		1									.047	.021	.9				.046	.020	.10	10
													.046	.072	.076				.045	.069	.078	
5																						5
0																						0
5					.034	.014	.2								.085	.026	.3	.064	.033	.5	5	
					.034	.043	.046								.073	.106	.119	.061	.090	.117		
10																						10
15																						15
20																						20
25																						25
30																						30
35																						35
40			.366	.145	.76														.366	.145	.76	40
			.382	.523	.616														.377	.523	.616	
45S					.479	.060	.2											.479	.060	.2	45S	
					.479	.520	.537											.479	.520	.537		
	15E	60E	105E	150E	165W	120W	75W	30W	15E													
											LONGITUDE											

CODE:

MEAN	ST. DEV.	N
50%	84%	98%

OCTOBER
FL 470

		MEAN												LAT								
70N																70N						
65						870	373	7								870	373	7	65			
60						957	1	278	1	339						957	1	278	1	339	60	
55																						55
50																						50
45																						45
40																						40
35																						35
30																						30
25																						25
20																						20
15																						15
10																						10
5																						5
0																						0
5																						5
10																						10
15																						15
20																						20
25																						25
30																						30
35																						35
40																						40
45S																						45S
	15E	60E	105E	150E	165W	120W	75W	30W	15E													

LONGITUDE

CODE:

MEAN	ST. DEV.	N
50%	84%	98%

OCTOBER
FL 490

		MEAN												LAT		
70N																70N
65																65
60																60
55																55
50																50
45																45
40																40
35																35
30																30
25																25
20																20
15																15
10																10
5																5
0																0
5																5
10																10
15																15
20																20
25																25
30																30
35																35
40																40
45S																45S
	15E	60E	105E	150E	165W	120W	75W	30W	15E							
		LONGITUDE														

CODE:

MEAN	ST. DEV.	N
50%	84%	98%

OCTOBER
FL 510

		MEAN									LAT
70N											70N
65					1 264 .488 7						65
					1 353 1.816 1.906						
60						.796 281 42					60
						821 1.040 1.452					
55						.622 300 38	.749 280 60	602 247 21			55
						581 896 1.266	706 1.021 1.405	546 791 1.184			
50								529 212 104			50
								502 692 1.051			
45			.532 .221 22		.461 .346 10	.655 .114 5	.457 .219 42	460 204 116			45
			.538 .728 1.008		.308 .946 1.037	.670 .745 .816	.408 .642 1.030	407 676 908			
40						.355 175 97		433 176 19			40
						.306 512 .836		425 590 767			
35			.234 .158 26			.196 112 17					35
			.170 .367 .688			.173 342 .383					
30		.161 .058 5	.113 .044 19			.180 116 32					30
		.189 .210 229	.099 .158 209			.154 249 527					
25											25
20		.127 .084 19			.155 1		.093 .048 10				20
		.112 .184 325					.088 .117 .195				
15											15
10		.042 1					.072 .030 9				10
							.060 .098 122				
5											5
0											0
5				.050 .023 2			.082 .019 3				5
				.050 .066 .072			.076 .098 107				
10											10
15											15
20											20
25											25
30											30
35											35
40			.556 241 75								40
			.518 786 1.095								
45S				.850 .079 2							45S
				.850 .904 .926							
	15E	60E	105E	150E	165W	120W	75W	30W	15E		
	LONGITUDE										

CODE:

MEAN	ST. DEV.	N
50%	84%	98%

OCTOBER
FL 530

		MEAN												LAT	
70N															70N
65															65
60															60
55															55
50															50
45															45
40															40
35															35
30															30
25															25
20															20
15															15
10															10
5															5
0															0
5															5
10															10
15															15
20															20
25															25
30															30
35															35
40															40
45S															45S
	15E	60E	105E	150E	165W	120W	75W	30W	15E						

LONGITUDE

CODE: MEAN ST. DEV. N
50% 84% 98%

OCTOBER
FL 550

		MEAN										LAT		
70N													70N	
65					1.613 .478 7 1.603 2.101 2.152							1.613 .478 7 1.603 2.101 2.152	65	
60								1.259 .375 42 1.212 1.514 2.235				1.259 .375 42 1.212 1.514 2.235	60	
55								926 .303 38 908 1.237 1.477	1.201 .356 60 1.149 1.643 1.798	1.004 .284 21 923 1.189 1.655		1.078 .352 119 1.040 1.475 1.780	55	
50												.876 .229 104 .853 1.085 1.409	.876 .229 104 .853 1.085 1.409	50
45		.844 .353 22 .855 1.194 1.557			.933 .591 10 .894 1.576 1.923			1.076 .258 5 950 1.325 1.490	.794 .250 42 .772 1.073 1.313		.781 .240 116 .739 1.014 1.411		.806 .291 195 .761 1.077 1.503	45
40								625 .233 97 598 .780 1.293				.728 .230 19 .733 .906 1.207	.642 .235 116 .570 .786 1.260	40
35		.385 .198 26 .290 .619 .888						.461 .193 17 .399 .544 .960					.415 .200 43 .374 .581 .912	35
30	.224 .098 5 .232 .317 .359		.230 .107 19 .181 .332 .465					.339 .129 32 .327 .435 .665					.292 .131 56 .241 .401 .586	30
25														25
20	.190 .123 19 .168 .269 .480				.174 1					.216 .062 10 .209 .253 .342		.198 .105 30 .143 .259 .446	20	
15														15
10	.044 1							.119 .033 9 .114 .152 .173				.111 .039 10 .110 .131 .173	10	
5														5
0														0
5				.179 .069 2 .179 .225 .244						.152 .014 3 .146 .163 .170		.163 .046 5 .146 .198 .241	5	
10														10
15														15
20														20
25														25
30														30
35														35
40			.863 .257 75 .854 1.202 1.327										.863 .257 75 .854 1.202 1.327	40
45S				1.182 .247 2 1.182 1.349 1.416									1.182 .247 2 1.182 1.349 1.416	45S
	15E	60E	105E	150E	165W	120W	75W	30W	15E					

LONGITUDE

CODE: MEAN ST. DEV. N
50% 84% 98%

OCTOBER
FL 570

										MEAN			LAT																						
70N														70N																					
65						1.686	.363	7						1.686	.363	7	65																		
						1.720	2.018	2.082						1.720	2.018	2.082																			
60									1.540	.371	41			1.540	.371	41	60																		
									1.505	1.774	2.438			1.505	1.774	2.438																			
55									1.135	.301	38	1.414	.351	60	1.286	.304	21	1.302	.350	119	55														
									1.134	1.476	1.613	1.381	1.781	2.123	1.307	1.453	2.055	1.307	1.621	2.113															
50														1.062	.251	104	1.062	.251	104	50															
														1.060	1.263	1.585	1.060	1.263	1.585																
45				1.017	.370	22			1.147	.524	10	1.121	.115	5	1.070	.283	42	981	.241	116	1.017	.290	195	45											
				.992	1.349	1.825			1.227	1.658	1.980	1.065	1.233	1.305	1.005	1.356	1.665	.960	1.218	1.514	.960	1.299	1.717												
40												.834	.265	97			.953	.248	19	.853	.266	116	40												
												.767	1.065	1.576			.999	1.180	1.337	.756	1.093	1.512													
35				.504	.185	26						.605	.234	17					.544	.211	43	.445	.710	910	.465	.789	1.054	35							
				.445	.710	910						.520	.829	1.110					.448	.171	56				.412	.614	.759								
30				.341	.154	5						.512	.141	32					.448	.171	56				.412	.614	.759	30							
				.360	.490	543						.489	.613	.850																					
25																												25							
20				.295	.134	19									.346	.065	10			.313	.115	30	.293	.366	.628	.302	1	.323	.420	.468	.257	.390	.577	20	
				.293	.366	.628									.323	.420	.468			.257	.390	.577													
15																												15							
10				.151		1						.195	.041	9					.191	.041	10							.184	.227	.272	10				
				.151		1						.184	.237	.273					.184	.227	.272														
5																												5							
0																												0							
5									.272	.109	2				.221	.050	3			.241	.083	5				.272	.345	.376	.202	.262	.286	.202	.322	.373	5
									.272	.345	.376				.202	.262	.286			.241	.083	5				.272	.345	.376	.202	.262	.286	.202	.322	.373	
10																												10							
15																												15							
20																												20							
25																												25							
30																												30							
35																												35							
40									1.106	.291	75								1.106	.291	75				1.081	1.323	1.983	1.081	1.323	1.983	40				
									1.081	1.323	1.983								1.081	1.323	1.983				1.081	1.323	1.983	1.081	1.323	1.983					
45S									1.471	.227	2								1.471	.227	2				1.471	1.625	1.688	1.471	1.625	1.688	45S				
									1.471	.227	2								1.471	.227	2				1.471	1.625	1.688	1.471	1.625	1.688					
	15E	60E	105E	150E	165W	120W	75W	30W	15E																										

LONGITUDE

CODE: MEAN ST. DEV. N
50% 84% 98%

OCTOBER
FL 590

		MEAN										LAT											
70N													70N										
65					1.856	.306	.7						1.856	.306	.7	65							
					1.966	2.124	2.194						1.966	2.124	2.194								
60								1.846	.337	.41						60							
								1.764	2.116	2.679			1.846	.337	.41								
55								1.357	.316	.98	1.666	.342	.60	1.537	.335	.21	55						
								1.329	1.627	2.045	1.664	2.046	2.367	1.559	1.731	2.328	1.545	.360	.119				
50														1.270	.283	.104	50						
														1.266	1.522	1.880	1.270	.283	.104				
45			1.159	.330	.22			1.455	.427	.10	1.418	.281	.5	1.363	.301	.42	1.217	.244	.115	45			
			1.117	1.456	1.632			1.359	1.862	2.176	1.305	1.551	1.920	1.347	1.711	1.955	1.198	1.439	1.746	1.260	.293	.194	
40											1.050	.305	.97				1.223	.260	.19	40			
											.979	1.331	1.809				1.263	1.445	1.665	1.079	.305	.116	
35			.683	.161	.26						.797	.259	.17							.728	.213	.43	35
			.671	.814	1.002						.698	1.024	1.361							.678	.912	1.260	
30			500	.225	.5	.545	.199	.19			.721	.206	.32							.641	.225	.56	30
			.487	.744	.767	.505	.716	.980			.688	.836	1.258							.588	.802	1.070	
25																							25
20			458	.155	.19									538	.114	.10				484	.145	.30	20
			431	.545	.830				431	1				508	.637	.748				414	.619	.835	
15																							15
10			274		1						.366	.105	.9							357	.103	.10	10
											.345	.496	.530							330	.485	.530	
5																							5
0																							0
5								.409	.106	.2				.336	.058	.3				365	.088	.3	5
								.409	.480	.510				.351	.383	.396				351	.440	.505	
10																							10
15																							15
20																							20
25																							25
30																							30
35																							35
40						1.400	.313	.75												1.400	.313	.75	40
						1.374	1.715	2.019												1.374	1.715	2.019	
45S						1.760	.207	.2												1.760	.207	.2	45S
						1.760	1.900	1.958												1.760	1.900	1.958	
	15E	60E	105E	150E	165W	120W	75W	30W	15E														

LONGITUDE

CODE:

MEAN	ST. DEV.	N
50%	84%	98%

NOVEMBER
FL 190

	MEAN												LAT							
70N																	70N			
65					.044	.017	8								.044	.017	8	65		
60					.043	.063	.063								.043	.063	.063	60		
55								.045	.016	34					.045	.016	34	55		
50								.043	.055	.091					.043	.055	.091	50		
45								.041	.011	35	.037	.012	54	.035	.013	29	.038	.012	118	45
40								.040	.051	.066	.040	.047	.058	.032	.047	.067	.036	.048	.061	40
35														.057	.105	125	.057	.105	125	35
30														.042	.061	.086	.042	.061	.086	30
25								.046	.009	24							.040	.013	240	25
20					.024	.010	10	.045	.054	.065	.024	.034	.043	.035	.016	13	.039	.051	.069	20
15					.020	.034	.043				.038	.053	.056	.046	.020	46	.039	.047	.058	15
10											.046	.019	90	.041		1	.036	.010	19	10
5											.043	.061	105				.039	.041	.055	5
0								.047	.009	28							.044	.018	110	0
5					.046	.059	.063				.028	.013	11				.045	.056	.063	5
10					.046	.059	.063				.023	.036	.057				.043	.014	61	10
15					.041	.008	4				.042	.015	40				.043	.053	.071	15
20					.043	.048	.051				.042	.053	.069							20
25																				25
30																				30
35								.040	.015	16				.032	.012	9	.036	.015	26	35
40					.027	.056	.067				.012		1	.031	.040	.055	.030	.053	.066	40
45																				45
50																				50
55																				55
60																				60
65																				65
70N																				70N
	15E	60E	105E	150E	165W	120W	75W	30W	15E											

LONGITUDE

CODE:	MEAN	ST. DEV.	N
	50%	84%	98%

NOVEMBER
FL 210

												MEAN			LAT			
70N																		70N
65						.046 .015 8									.046 .015 8			65
60						.049 .063 .065									.049 .063 .065			60
55																		55
50																		50
45																		45
40						.048 .010 24									.048 .010 24			40
35						.047 .055 .070									.047 .055 .070			35
30																		30
25																		25
20																		20
15																		15
10																		10
5																		5
0																		0
5																		5
10																		10
15																		15
20																		20
25																		25
30																		30
35																		35
40																		40
45S																		45S
	15E	60E	105E	150E	165W	120W	75W	30W	15E									

LONGITUDE

CODE:

MEAN	ST. DEV.	N
50%	84%	98%

NOVEMBER
FL 230

											MEAN	LAT														
70N												70N														
65						.047	.015	8				.047	.015	8	65											
60						.052	.062	.065				.052	.062	.065	60											
55									.050	.021	34	.050	.021	34	55											
50									.047	.060	.106	.047	.060	.106	50											
45									.043	.012	35	.042	.015	54	.040	.013	31	.042	.014	120	45					
40									.041	.053	.069	.043	.055	.074	.037	.051	.072	.039	.054	.074	40					
35															.054	.062	126	.054	.062	126	35					
30															.043	.068	.267	.043	.068	.267	30					
25	.049	1			.049	.011	24				.025	.015	10	.039	.017	13	.050	.021	46	.039	.010	148	.041	.015	242	25
20					.050	.057	.075				.022	.033	.058	.040	.055	.068	.049	.064	.085	.038	.048	.059	.039	.054	.073	20
15	.017	.011	2											.047	.022	94	.042	.017	13	.037	.013	19	.045	.021	128	15
10	.017	.024	.028											.045	.062	.097	.038	.062	.071	.037	.046	.063	.041	.062	.091	10
5	.088	1			.048	.012	30				.030	.008	2	.023	.013	13							.041	.018	46	5
0					.046	.058	.071				.030	.035	.038	.023	.038	.045							.042	.057	.073	0
5														.043	.021	40							.044	.020	61	5
10					.038	.012	4							.041	.052	.087							.042	.053	.081	10
15					.045	.046	.046							.041	.052	.087							.042	.053	.081	15
20	.039	.025	4											.041	.052	.087							.042	.053	.081	20
25	.044	.062	.067											.041	.052	.087							.042	.053	.081	25
30					.041	.017	14				.016	1					.032	.011	9	.031	.043	.049	.037	.016	25	30
35					.039	.053	.077	.057	1														.035	.051	.074	35
40																										40
45S																										45S
	15E	60E	105E	150E	165W	120W	75W	30W	15E																	

LONGITUDE

CODE:	MEAN	ST. DEV.	N
	50%	84%	98%

NOVEMBER
FL 250

		MEAN										LAT	
70N													70N
65					.048 .015 8							.048 .015 8	65
60					.046 .063 .071							.046 .063 .071	60
55						.053 .023 34						.053 .023 34	55
50						.052 .071 .116						.052 .071 .116	50
45						.044 .013 35	.047 .021 54	.044 .014 29				.044 .014 29	45
40						.042 .052 .075	.045 .060 .118	.042 .056 .074				.042 .056 .074	40
35								.056 .071 124				.056 .071 124	35
30								.043 .070 135				.043 .070 135	30
25													25
20													20
15													15
10													10
5													5
0													0
5													5
10													10
15													15
20													20
25													25
30													30
35													35
40													40
45S													45S
	15E	60E	105E	150E	165W	120W	75W	30W	15E				

LONGITUDE

CODE:

MEAN	ST. DEV.	N
50%	84%	98%

NOVEMBER
FL 270

		MEAN												LAT						
70N															70N					
65						.053	.015	8							.053	.015	8	65		
						.053	.067	.077							.053	.067	.077			
60										.053	.032	34			.063	.032	34	60		
										.055	.088	.139			.055	.088	.139			
55										.048	.017	35	.057	.030	54	.048	.017	29	55	
										.046	.059	.089	.049	.077	.136	.045	.068	.081		
50															.060	.089	126	50		
															.045	.074	.131			
45	.018	1				.053	.013	24		.033	.017	10	.046	.035	13	.063	.036	46	45	
						.052	.062	.084		.027	.046	.070	.044	.055	.131	.057	.086	.152		
40	.043	.041	2										.052	.025	93	.035	.019	9	40	
	.043	.071	.082										.046	.073	.106	.033	.048	.072		
35						.056	.013	28		.014		1	.029	.018	16				35	
						.056	.071	.080					.029	.044	.068					
30				.044	.012	4							.043	.022	40				30	
				.050	.052	.052		.050	.018	17			.042	.055	.085					
25	.044	.016	2																25	
	.044	.054	.058										.018		1					
20				.041	.018	14		.022		1			.044	.024	5				20	
				.036	.054	.081							.050	.066	.075		.033	.009	9	
15																	.030	.042	.047	15
10				.059		1														10
													.023	.010	11					
5													.019	.028	.044					5
0																				0
5							.048	.008	2								.070		1	5
							.048	.053	.056								.055	.012	3	
10																	.056	.056	.069	10
15							.040		1								.040		1	15
20																				20
25																				25
30																				30
35							.040	.018	2				.027		1					35
							.040	.051	.056								.035	.015	3	
40							.062	.037	62								.027	.047	.056	40
							.052	.074	.172								.061	.037	63	
45S										.061		1					.052	.074	.171	45S
													.028		1		.055	.027	2	
													.055	.073	.080		.055	.073	.080	
	15E	60E	105E	150E	165W	120W	75W	30W	15E											
	LONGITUDE																			

CODE:

MEAN	ST. DEV.	N
50%	84%	98%

NOVEMBER
FL 290

		MEAN												LAT												
		15E			105E			150E			165W			120W			75W			30W			15E			
70N																										
65									.062	.017	8													.062	.017	8
									.065	.078	.080													.065	.078	.080
60														.081	.047	34								.081	.047	34
														.064	.142	.178								.064	.142	.178
55														.060	.039	35	.075	.041	54	.053	.025	34	.065	.038	123	
														.050	.080	.156	.059	.127	.167	.047	.073	121	.052	.104	.158	
50																	.079	.026	4	.070	.108	134	.070	.107	138	
																	.088	.103	104	.048	.089	196	.048	.090	195	
45	.053	.026	4				.062	.018	24			.036	.020	12		.046	.032	12	.076	.048	53	.048	.030	154		
	.042	.072	.094				.056	.087	.097			.033	.054	.076		.042	.062	.119	.061	.116	201	.040	.062	.157		
40	.055	.014	6									.048	.008	3		.057	.032	95	.046	.020	7	.036	.016	18		
	.058	.062	.073									.047	.054	.058		.048	.086	155	.038	.053	.087	.036	.049	.067		
35	.045	.002	2				.062	.017	31			.072	.025	3		.041	.028	17				.055	.024	53		
	.045	.046	.047				.062	.084	.093			.060	.091	.104		.034	.066	.101				.049	.082	.104		
30				.047	.011	4	.051	.021	17							.044	.018	40				.046	.019	61		
				.053	.055	.055	.046	.075	.090							.044	.062	.078				.044	.064	.091		
25	.042		1	.073		1	.043		1													.053	.014	3		
																						.043	.063	.072		
20				.047	.019	16	.042	.018	2			.041	.027	7					.035	.011	8	.042	.020	34		
				.042	.069	.083	.042	.054	.059			.032	.056	.094					.032	.047	.050	.036	.058	.089		
15							.024		1			.031	.011	2								.028	.009	3		
												.031	.038	.041								.024	.036	.040		
10				.063		1										.026	.011	11				.029	.015	12		
																.025	.035	.046				.026	.046	.059		
5				.041		1																.041		1		
0																										
5							.042		1	.038	.004	2							.068		1	.047	.013	4		
										.038	.041	.042										.047	.056	.066		
10							.051		1	.061		1										.056	.005	2		
																						.056	.059	.061		
15										.080	.026	2	.051		1							.070	.025	3		
										.080	.097	.104										.054	.089	.103		
20																										
25																										
30																										
35							.072	.026	2	.053	.053	2			.027		1					.055	.041	5		
							.072	.090	.097	.053	.089	.104										.046	.101	.105		
40							.066	.049	61	.027		1							.084		1	.066	.048	63		
							.056	.071	.226													.056	.072	.225		
45S										.084		1			.029		1					.057	.028	2		
																						.057	.075	.083		

LONGITUDE

CODE: MEAN ST. DEV. N
 50% 84% 98%

NOVEMBER
 FL 310

		MEAN												LAT															
70N																								70N					
65							.088	.054	8								.088	.054	8						65				
60							.076	.105	202							.117	.076	46						60					
55										.105	.065	34	.218	.074	6	.079	.045	6						55					
50										.087	.172	245	.261	.269	273	.057	.106	166						50					
45										.070	.057	35	.124	.080	72	.058	.040	52						45					
40										.048	.116	228	.102	.212	299	.048	.073	160	.091	.071	159					40			
35										.024	.009	3	.112	.097	12	.077	.112	140	.079	.111	155					35			
30										.024	.031	034	.055	.221	301	.052	.102	208	.052	.108	240					30			
25	.069	.023	4				.084	.046	24				.097	.075	53	.058	.041	157	.058	.053	251					25			
20	.070	.091	096				.069	.122	200	.048	.033	11	.048	.080	165	.044	.079	182	.048	.104	250					20			
15	.060	.029	8				.125		1	.038	.074	124	.070	.056	100	.054	.031	12	.064	.100	189					15			
10	.048	.082	118							.048	.049	049	.049	.109	212	.042	.072	128	.037	.048	075	.084	.050	143					10
5	.082	.034	7				.069	.026	31	.049	.020	7	.039	.027	15				.061	.030	60					5			
0	.078	.098	144				.065	.089	131	.038	.067	088	.032	.070	098				.053	.089	144					0			
70S										.049	.022	40	.048	.062	098				.050	.021	64					70S			
65	.056	.012	3	.050	.013	4	.052	.022	17										.048	.064	090					65			
60	.048	.064	071	.056	.059	059	.053	.074	088															60					
55	.053	.011	3	.046															.039	.015	8					55			
50	.049	.062	067							.026	.007	4	.027	.033	034				.037	.049	065					50			
45				.046	.019	17	.018	.001	2				.062	.066	10	.039	.012	8	.046	.039	38					45			
40				.050	.057	085	.019	.019	019				.037	.071	223	.031	.046	050	.027	.056	130					40			
35				.031	.003	3				.030	.017	6	.024	.050	056				.031	.014	9					35			
30				.031	.034	035													.031	.044	056					30			
25				.039	.022	4				.015	.004	5	.016	.018	019	.029	.011	11	.027	.015	20					25			
20				.030	.054	072										.030	.041	045	.021	.039	064					20			
15				.029	.008	2				.015	.003	3							.021	.009	5					15			
10				.029	.034	037				.015	.018	019							.019	.026	036					10			
5																								5					
0										.026	.016	2				.067		1	.039	.023	3					0			
70N							.026	.036	040										.041	.059	066					70N			
65							.062		1										.062		1					65			
60																								60					
55																								55					
50																								50					
45										.023	.006	3	.027	.028	028				.023	.006	3					45			
40																			.027	.028	028					40			
35							.103	.001	2	.065	.011	3	.070	.074	076				.080	.020	5					35			
30				.103	.104	104													.076	.103	104					30			
25				.068	.011	4	.069	.077	081							.054		1	.065	.011	5					25			
20				.069	.077	081													.065	.076	080					20			
15							.081	.015	6	.098	.062	3	.068	.148	180	.022		1	.080	.042	10					15			
10				.079	.095	104													.066	.099	171					10			
5							.081	.073	61	.019		1				.186		1	.081	.074	63					5			
0				.060	.089	326													.060	.090	323					0			
70S							.075	.012	3				.032		1				.064	.021	4					70S			
65							.079	.084	087										.069	.083	087					65			

LONGITUDE

CODE:

MEAN	ST. DEV.	N
50%	84%	98%

NOVEMBER
FL 330

70N											MEAN			LAT														
											262	061	7		277	1	264	057	8									
65											.116	.081	8	.094	.152	280	202	.035	2	.275	.048	9	201	.098	19			
60											.279	.031	3	.259	.303	320	.139	.092	35	.102	.101	13	.223	.091	8	.149	.103	59
55											.228	.106	5	.279	.318	322	.108	.089	39	.170	.084	74	.087	.055	44	.134	.089	162
50											.055		1	.099		1	.139	.120	8	.201	.102	27	.088	.103	158	.102	.108	195
45	.106	.064	6	.107	.068	24	.129	.011	3	.073	.055	12	.062	.042	29	.104	.089	85	.067	.052	150	.082	.067	309	.059	.132	288	
40	.054	.016	14	.063	.012	3	.090	.046	4	.035	.007	7	.077	.054	112	.056	.036	14	.042	.021	18	.068	.048	172	.051	.113	205	
35	.069	.022	8	.073	.025	45	.092	.009	2	.049	.022	10	.051	.033	18	.040	.080	122				.065	.028	83	.063	.098	133	
30	.062	.013	5	.053	.012	7	.056	.024	20	.094		1	.076	.044	8	.055	.031	41				.058	.030	82	.048	.076	136	
25											.043	.013	3	.044	.054	058	.046	.025	9				.045	.023	12	.036	.064	090
20											.047	.020	15	.019		1	.052	.030	5				.032	.012	10	.042	.021	31
15											.026	.010	3	.020	.034	040	.040	.040	2				.030	.010	6	.029	.040	041
10											.045	.031	3	.025	.068	085	.032	.013	11	.038	.038	038				.035	.018	16
5											.022	.005	2	.022	.025	027	.004		1	.015		1	.029		1	.018	.009	5
0											.016	.002	2	.016	.017	018	.042	.006	2	.042	.045	047				.029	.014	4
5											.022	.006	2	.022	.025	027	.025	.014	5	.060		1	.070		1	.033	.020	9
10											.048	.024	3	.032	.066	080	.052	.029	4				.029		1	.048	.026	8
15											.070	.032	4	.075	.101	101	.051	.043	3	.039	.009	2	.061	.020	2	.057	.033	11
20											.057	.026	4	.070	.073	075	.037	0.000	2	.039	.045	048	.052	.016	2	.040	.071	074
25											.108		1	.066	.013	6	.068	.079	083				.062	.036	2	.070	.024	9
30											.125	.048	7	.110	.190	194	.125	.048	7				.082	.012	2	.116	.046	9
35											.062		1	.116	.089	12	.079	.173	331	.093		1	.050		1	.078	.145	322
40											.103	.089	60	.072	.144	338	.141	.088	2				.279		1	.107	.091	63
45S											.080	.009	2	.080	.086	089	.037		1							.066	.022	3
	15E	60E	105E	150E	165W	120W	75W	30W	15E																			

LONGITUDE

CODE: MEAN ST. DEV. N
50% 84% 98%

NOVEMBER
FL 350

		MEAN												LAT									
70N										249	.053	9		.268	.048	9			.259	.051	18	70N	
										255	.310	320		.266	.321	331			.213	.315	329		
65									.202	.084	23			.247	.046	10			.216	.078	33	65	
									.213	.272	.352			.247	.293	.305			.223	.282	.346		
60								.344	1	.188	.054	4		.189	.096	71			.227	.016	5	60	
										.208	.229	.235		.192	.278	.352			.229	.240	.251		
55								.166	.071	15				.152	.098	67			.180	.104	78	55	
								.164	.259	.305				.219	.223	.225			.183	.303	.395		
50								.124	.080	18				.100	.076	6			.165	.106	31	50	
								.110	.173	.315				.078	.124	.248			.149	.268	.343		
45	.073	.080	9					.143	.082	25				.093	.095	13			.118	.101	74	45	
	.050	.075	261					.105	.243	.323				.064	.109	.336			.079	.232	.381		
40	.084	.038	21					.119	.078	12				.089	.122	6			.082	.076	5	40	
	.022	.124	151					.080	.210	.260				.040	.114	.329			.043	.121	.220		
35	.088	.024	11					.083	.037	33				.046	.035	20							35
	.086	.121	125					.071	.115	171				.036	.038	.146			.048	.039	17		
30	.033	.012	5					.056	.015	4				.042	.022	8							30
	.031	.041	054					.054	.080	.098				.032	.050	.084			.061	.043	40		
25	.058	.009	2					.040	.010	5				.037	.020	29							25
	.058	.064	067					.037	.045	056				.031	.060	.078							
20								.049	.021	16				.065	.080	10			.035	.066	9	20	
								.046	.071	.090				.035	.068	.258			.036	.040	.044		
15														.032	.015	4							15
														.032	.047	.049							
10								.101	1					.059	.008	2			.032	.014	11	10	
														.059	.064	.066			.030	.043	.058		
5								.029	1					.033	.012	3			.024	.001	2	5	
														.032	.043	.047			.024	.024	.024		
0								.047	.018	3				.021	.011	6			.023	.003	2	0	
								.035	.060	.071				.018	.033	.037			.023	.025	.026		
5								.053	.020	5				.027	.012	8			.036	.026	3	5	
								.057	.059	.082				.026	.039	.046			.018	.055	.071		
10								.058	.019	4				.031	.015	6			.013		1	10	
								.053	.073	.087				.028	.048	.053							
15								.069	.022	4				.040	.026	4							15
								.060	.087	.104				.030	.060	.080			.052		1		
20								.058	.012	4				.022	.003	2							20
								.052	.066	.076				.022	.024	.025							
25								.086	.036	4				.107	.007	6							25
								.088	.121	.129				.106	.113	.119							
30								.089	.018	3				.083	.026	12							30
								.084	.104	.112				.075	.111	.124							
35														.095	.031	9			.229		1	35	
														.096	.122	.145							
40								.136	.103	61									.439		1	40	
								.104	.224	.354													
45S								.060	1					.124	1				.065	1		45S	

CODE:

MEAN	ST. DEV.	N
50%	84%	98%

NOVEMBER
FL 390

	MEAN												LAT					
70N																		
65				.322	.106	7	.274	.103	.81	.164	.026	2			.275	.104	90	
				.305	.470	.479	.255	.355	.513	.164	.181	.188			.255	.355	.513	
60				.343	.119	31	.355	.129	.40	.297	.125	40			.331	.128	111	
				.358	.469	.519	.358	.511	.581	.299	.437	.519			.328	.466	.569	
55				.320	.122	46	.322	.084	.13	.191	.115	43	.262	.128	.59	.169	.103	.38
				.315	.458	.500	.339	.384	.464	.170	.303	.482	.260	.402	.496	.161	.282	.371
50				.161	.081	11	.239	.111	.21	.262	.093	8	.147	.095	.12	.171	.128	.131
				.124	.229	.336	.215	.347	.479	.241	.303	.456	.169	.230	.284	.147	.287	.468
45	.336	.136	6				.200	.129	.19	.169	.126	20	.211	.141	.53	.136	.095	.148
	.310	.503	.511				.183	.328	.432	.134	.315	.369	.202	.343	.425	.141	.312	.417
40	.120	.042	3				.098	.048	.13	.050	.016	3	.115	.093	.136	.080	.058	.4
	.092	.151	.176				.088	.114	.213	.087	.073	.076	.087	.209	.373	.046	.125	.187
35	.086	.026	2				.100	.047	.23	.058	.022	11	.088	.077	.30	.028	.015	.3
	.086	.104	.111				.091	.159	.194	.069	.069	.069	.055	.079	.085	.066	.125	.298
30	.084	.039	4	.067	.019	5	.063	.026	.18	.041	.007	6	.060	.021	.21	.072	.006	.2
	.078	.122	.133	.075	.080	.087	.058	.096	.103	.040	.047	.050	.056	.084	.097	.063	.094	.131
25	.052	.018	4	.070	.010	2				.041	.005	4	.056	.025	.21	.021	.006	.3
	.056	.068	.071				.044	.045	.045	.060	.074	.105				.017	.025	.029
20				.060	.022	.19	.034	.012	.2	.073	.040	.10				.037	.011	.14
				.058	.076	.104	.034	.041	.045	.072	.104	.147				.033	.050	.052
15				.024	.002	.2				.044	.022	.5				.038	.011	.7
				.024	.025	.026				.034	.059	.083				.038	.047	.054
10				.128		1	.031	.003	.2	.025	.004	.2	.032	.014	.11	.044	.014	.10
							.031	.033	.034	.025	.026	.029	.025	.049	.056	.043	.054	.074
5							.031		1							.065	.018	.8
																.067	.077	.095
0																.078	.019	.8
																.079	.094	.107
5										.022	.008	.2				.064	.017	.9
										.022	.027	.030				.074	.079	.080
10													.052	.015	.9			
													.055	.064	.073			
15							.020	0.000	.2	.052	.012	.11				.047	.016	.13
							.020	.020	.020	.055	.062	.069				.054	.060	.069
20							.086		1				.043	.015	.7			
													.042	.054	.070			
25										.070	.016	.2				.070	.016	.2
										.070	.081	.085				.070	.081	.085
30							.028		1				.114	.023	.2			
													.114	.129	.135			
35							.144	.009	.2				.436		1			
							.144	.150	.153									
40							.217	.124	.62							.321		1
							.191	.310	.549									
45S							.197		1	.242	.035	.2				.271		1
							.242	.265	.275									
	15E	60E	105E	150E	165W	120W	75W	30W	15E									

LONGITUDE

CODE:

MEAN	ST. DEV.	N
50%	84%	98%

NOVEMBER
FL 410

		MEAN												LAT		
70N																70N
65																65
60																60
55																55
50																50
45																45
40																40
35																35
30																30
25																25
20																20
15																15
10																10
5																5
0																0
5																5
10																10
15																15
20																20
25																25
30																30
35																35
40																40
45S																45S
	15E	60E	105E	150E	165W	120W	75W	30W	15E							

LONGITUDE

CODE: MEAN ST. DEV. N
50% 84% 98%

NOVEMBER
FL 450

		MEAN												LAT											
70N															70N										
65						.550	.219	.8						.560	.219	.8	65								
						.535	.703	.971						.535	.703	.971									
60										.506	.237	.35		.506	.237	.35	60								
										.472	.774	.962		.472	.774	.962									
55										.354	.202	.35	.438	.250	.54	.315	.142	.29	55						
										.312	.478	.848	.391	.667	1.017	.313	.418	.653	.383	.220	.118				
50																.304	.171	.123	.261	.487	.710	50			
																.261	.487	.710	.304	.171	.123				
45				.380	.171	.24				.352	.256	.10	.216	.107	.13	.376	.169	.46	.256	.162	.146	.299	.175	.239	45
				.334	.526	.769				.223	.568	.899	.197	.318	.433	.382	.526	.741	.232	.414	.636	.263	.461	.725	
40													.193	.113	.90				.215	.101	.18	.196	.112	.108	40
													.160	.299	.458				.154	.292	.457	.154	.292	.457	
35				.160	.073	.26				.145	.104	.11							.155	.084	.37	.155	.084	.37	35
				.139	.226	.336				.124	.254	.339							.129	.231	.368	.129	.231	.368	
30		.093	.013	.4			.080	.035	.17				.109	.064	.40				.100	.056	.51	.100	.056	.51	30
		.094	.105	.109			.076	.108	.154				.107	.163	.268				.090	.147	.255	.090	.147	.255	
25																									25
20		.089	.038	.14			.012		.1				.055		.1				.056	.006	.9	.056	.006	.9	20
		.087	.122	.161												.055			.055	.063	.068	.055	.063	.068	
15							0.000	0.000	.2										0.000	0.000	.2	0.000	0.000	.2	15
							0.000	0.000	0.000										0.000	0.000	0.000	0.000	0.000	0.000	
10		.193		.1			.020	.020	.2				.041	.024	.11				.049	.047	.14	.049	.047	.14	10
							.020	.034	.039				.025	.061	.092				.030	.063	.169	.030	.063	.169	
5							.022		.1										.022		.1	.022		.1	5
0																									0
5								.024	.011	.2						.092		.1	.046	.033	.3	.046	.033	.3	5
								.024	.031	.034									.034	.073	.090	.034	.073	.090	
10																									10
15																									15
20																									20
25																									25
30																									30
35													.207		.1				.207		.1	.207		.1	35
40							.254	.108	.60							.266		.1	.254	.107	.61	.254	.107	.61	40
							.264	.350	.467										.265	.350	.467	.265	.350	.467	
45S								.310	.1				.590		.1				.450	.140	.2	.450	.140	.2	45S
																			.450	.545	.564	.450	.545	.564	
	15E	60E	105E	150E	165W	120W	75W	30W	15E																
	LONGITUDE																								

CODE:

MEAN	ST. DEV.	N
50%	84%	98%

NOVEMBER
FL 470

		MEAN												LAT						
70N															70N					
65					.720	.278	8								.720	.278	8	65		
60					.736	1.022	1.127								.736	1.022	1.127	60		
55								659	.291	35					659	.291	35	55		
50								.626	1.005	1.232					.626	1.005	1.232	50		
45								458	.204	35	.581	.313	54	.433	.220	29	508	.271	118	45
40								465	.693	85.7	.505	.903	1.305	.407	.600	.967	.397	.765	1.194	40
35														.362	.199	123	.362	.199	123	35
30														.324	.584	.785	.324	.584	.785	30
25																				25
20																				20
15																				15
10																				10
5																				5
0																				0
5																				5
10																				10
15																				15
20																				20
25																				25
30																				30
35																				35
40																				40
45S																				45S
	15E	60E	105E	150E	165W	120W	75W	30W	15E											

LONGITUDE

CODE:

MEAN	ST. DEV.	N
50%	84%	98%

NOVEMBER
FL 490

		MEAN												LAT										
70N																70N								
65					.950	.320	8								.950	.320	8	65						
					.960	1.346	1.397								.960	1.346	1.397							
60						.835	.336	35							.835	.336	35	60						
						.751	1.258	1.617							.751	1.258	1.617							
55						.571	.211	35		.703	.337	.54		.603	.248	.29	.639	.290	118	55				
						.558	.809	.941		.649	1.043	1.502		.599	.801	1.167	.595	.859	1.417					
50														.452	.234	.123	.452	.234	.123	50				
														.427	.679	1.017	.427	.679	1.017					
45			.526	.183	.24		.638	.352	10		.460	.249	.13		.516	.208	.46		.418	.227	.145	45		
			.546	.673	.911		.557	.934	1.376		.470	.645	.924		.531	.692	.890		.365	.631	.944	.460	.235	.238
40											.330	.179	.90						.328	.102	.18	.330	.169	.108
											.287	.526	.719						.262	.499	.705	.287	.499	.705
35			.228	.101	.26						.265	.168	.11						.239	.125	.37	.239	.125	.37
			.203	.346	.454						.264	.436	.508						.205	.363	.518	.205	.363	.518
30			.129	.035	.4		.115	.065	.17		.164	.107	.40						.148	.096	.61	.148	.096	.61
			.132	.163	.170		.078	.164	.272		.135	.231	.431						.119	.208	.421	.119	.208	.421
25																								
20			.120	.053	.14		.079		1						.093	.041	.9		.108	.050	.24	.108	.050	.24
			.110	.170	.236										.081	.101	.189		.080	.154	.234	.081	.101	.189
15																								
10			.236		1						.044	.028	.11						.060	.059	.12	.044	.071	.210
											.040	.052	.107											
5																								
0																								
5							.026	.015	2						.092		1		.048	.033	.3	.048	.033	.3
							.026	.036	.040										.041	.076	.090	.041	.076	.090
10																								
15																								
20																								
25																								
30																								
35											.268		1						.268		1	.268		1
40			.345	.149	.60										.669		1		.350	.153	.61	.350	.153	.61
			.350	.515	.621														.352	.522	.660	.352	.522	.660
45S							.488		1		1.045		1						.767	.279	.2	.767	.956	1.034

LONGITUDE

CODE:

MEAN	ST. DEV.	N
50%	84%	98%

NOVEMBER
FL 510

	MEAN										LAT				
70N												70N			
65					1.131	.375	8					1.131	.375	8	65
60					1.157	1.490	1.688					1.157	1.490	1.688	60
55															55
50															50
45															45
40															40
35															35
30															30
25															25
20															20
15															15
10															10
5															5
0															0
5															5
10															10
15															15
20															20
25															25
30															30
35															35
40															40
45S															45S
15E	60E	105E	150E	165W	120W	75W	30W	15E							

LONGITUDE

CODE:

MEAN	ST. DEV.	N
50%	84%	98%

NOVEMBER
FL 530

	MEAN										LAT	
70N											70N	
65					1.280 .338 8						1.280 .338 8	65
					1.232 1.566 1.833						1.232 1.566 1.833	
60						1.122 .372 35					1.122 .372 35	60
						1.026 1.437 2.076					1.026 1.437 2.076	
55						.919 .253 35	1.048 .364 54	.858 269 29			.963 .323 119	55
						.903 1.226 1.337	1.084 1.411 1.766	.892 1.098 1.374			.769 1.267 1.674	
50								.741 .342 123			.741 .342 123	50
								.653 1.049 1.680			.653 1.049 1.680	
45		.800 284 24			.790 .213 10	.830 .342 13	.755 .332 46	.659 298 144			.707 .309 237	45
		.784 1.060 1.363			.764 964 1.211	.873 1.112 1.389	.691 .998 1.512	.585 941 1.338			.645 1.017 1.424	
40						.494 .236 90		.578 .197 18			.508 .232 108	40
						.478 .710 1.025		.569 .717 .981			.430 .711 1.012	
35			.365 .191 26			.471 .223 11		.396 .206 37			.324 .612 .862	35
			.299 .507 .875			.440 .749 .791						
30	.165 .059 4		.183 .096 17			.283 .170 40		.247 .155 61			.199 .370 .637	30
	.164 .221 .238		.147 .285 .395			.220 .514 .640						
25												25
20	.163 .071 14				.213 1			.119 .046 9			.148 .066 24	20
	.154 .199 .322							.103 .147 220			.119 .203 .302	
15												15
10	.279 1					.057 .027 11		.076 .066 12			.054 .083 .247	10
						.051 .066 .121						
5												5
0												0
5				.030 .020 2				.129 1			.063 .050 3	5
				.030 .043 .048							.049 .103 .126	
10												10
15												15
20												20
25												25
30												30
35						.719 1					.719 1	35
40		.584 244 60						1.199 1			.584 .254 61	40
		.563 .831 1.125									.567 .840 1.185	
45S				.754 1		1.445 1					1.100 .346 2	45S
											1.100 1.334 1.431	
	15E	60E	105E	150E	165W	120W	75W	30W	15E			

LONGITUDE

CODE:

MEAN	ST. DEV.	N
50%	R/T	98%

NOVEMBER
FL 550

		MEAN										LAT												
70N													70N											
65					1.489	.458	8						1.489	.458	8	65								
					1.334	1.855	2.279						1.334	1.855	2.279									
60								1.367	.476	35				1.367	.476	35	60							
								1.362	1.822	2.539				1.362	1.822	2.539								
55								1.105	.287	35	1.253	.392	54	1.132	.326	29	1.184	.355	116	55				
								1.005	1.388	1.730	1.247	1.657	2.022	1.201	1.403	1.662	1.110	1.534	1.984					
50													933	.358	123		933	.358	123	50				
													865	1.268	1.921		865	1.268	1.921					
45			1.027	.338	24			.959	.307	10	1.087	.421	13	.914	.383	46	.854	.309	144	.901	.341	23	45	
			1.022	1.354	1.691			.889	1.185	1.599	1.075	1.358	1.865	.810	1.306	1.788	.805	1.110	1.679	.844	1.210	1.746		
40								.650	.245	90							.698	.218	18	.658	.241	108	40	
								.654	.884	1.212							.661	.926	1.055	.604	.909	1.193		
35			.481	.215	26			.581	.364	11										.511	.272	37	35	
			.443	.660	1.018			.421	1.012	1.240										.436	.748	1.173		
30		.216	.073	4																.408	.233	40	30	
		.243	.277	.277																.315	.655	.937		
25																								25
20		.216	.093	14			.144	1						.155	.071	9				.190	.089	24	20	
		.225	.292	.395										.124	.197	.307				.161	.265	.383		
15																								15
10		.339		1							.067	.013	11							.090	.076	12	10	
											.069	.074	.093							.070	.060	.286		
5																								5
0																								0
5					.112	.002	2							.189		1				.137	.037	3	5	
					.112	.113	.114													.114	.165	.186		
10																								10
15																								15
20																								20
25																								25
30																								30
35										.909		1								.909		1	35	
40					.769	.290	60							1.366		1				.779	.298	61	40	
					.742	1.053	1.326													.752	1.066	1.360		
45S							1.214	1		1.761		1								1.488	.274	2	45S	
																				1.488	1.673	1.750		
	15E	60E	105E	150E	165W	120W	75W	30W	15E															

LONGITUDE

CODE:

MEAN	ST. DEV.	N
50%	84%	98%

NOVEMBER
FL 570

		MEAN										LAT												
70N													70N											
65					1.726	.514	8						1.726	.514	8	65								
					1.525	2.366	2.517						1.525	2.366	2.517									
60								1.629	.460	35			1.629	.460	35	60								
								1.619	1.957	2.636			1.619	1.957	2.636									
55								1.327	.311	34	1.454	.382	54	1.326	.407	29	1.385	.375	117	55				
								1.292	1.696	1.986	1.415	1.656	2.234	1.333	1.800	1.879	1.364	1.799	2.056					
50													1.171	.405	123	1.171	.405	123	50					
													1.112	1.519	2.284	1.112	1.519	2.284						
45		1.311	.365	24				1.250	.255	10	1.418	.523	13	1.128	.359	46	1.073	.313	144	1.134	.355	237	45	
		1.361	1.654	1.956				1.249	1.524	1.631	1.474	2.055	2.121	1.074	1.575	1.883	1.014	1.359	1.788	1.066	1.548	1.932		
40											.845	.262	90				.964	.297	17	.864	.270	107	40	
											.856	1.074	1.424				1.016	1.292	1.385	.866	1.136	1.405		
35			.637	.233	26						.783	.335	11							.680	.275	37	35	
			.571	.787	1.215						.635	1.160	1.290							.613	1.114	1.283		
30		.306	.120	4	.389	.135	17				.554	.245	40							.492	.231	61	30	
		.353	.403	.411	.379	.530	.656				.473	.819	1.079							.429	.770	1.092		
25																							25	
20		.311	.128	14				.344	1					.250	.093	9				.289	.117	24	20	
		.298	.390	.563										.186	.351	.413				.229	.388	.550		
15																							15	
10		.402	1								.103	.037	11							.128	.090	12	10	
											.103	.130	.172							.108	.145	.353		
5																							5	
0																							0	
5					.287	.073	2							.252	1					.275	.061	3	5	
					.287	.336	.356													.252	.325	.355		
10																							10	
15																							15	
20																							20	
25																							25	
30																							30	
35											1.260	1										1.260	1	35
40					1.018	.268	60							1.528	1					1.027	.273	61	40	
					.995	1.313	1.527													.997	1.327	1.530		
45S					1.689	1					2.000	1								1.845	.156	2	45S	
																				1.845	1.950	1.994		
	15E	60E	105E	150E	165W	120W	75W	30W	15E															

LONGITUDE

CODE:

MEAN	ST. DEV.	N
50%	84%	98%

NOVEMBER
FL 590

		MEAN												LAT										
70N																								
65						2.002	.428	8								2.002	.428	8	65					
						2.023	2.342	2.719								2.023	2.342	2.719						
60									1.872	.446	35						1.872	.446	35	60				
									1.827	2.232	2.906						1.827	2.232	2.906					
55									1.577	.322	34	1.719	.368	54	1.562	.416	29	1.639	.376	117	55			
									1.560	1.912	2.171	1.718	2.042	2.482	1.602	1.995	2.191	1.660	2.016	2.360				
50															1.440	.450	123	1.440	.450	123	50			
															1.356	1.836	2.562	1.356	1.836	2.562				
45		1.607	.395	24					1.491	.281	10	1.684	.549	13	1.395	.320	46	1.316	.303	143	1.389	.353	236	45
		1.555	1.974	2.321					1.471	1.608	2.095	1.719	2.098	2.685	1.407	1.657	2.037	1.286	1.594	1.994	1.262	1.753	2.176	
40												1.091	.274	90				1.234	.353	17	1.113	.293	107	40
												1.054	1.422	1.594				1.229	1.591	1.782	1.089	1.448	1.751	
35												.866	.244	26	.955	.341	11				.892	.280	37	35
												.793	1.063	1.480	.895	1.116	1.703				.809	1.106	1.641	
30		.495	.092	4	.552	.167	17							.760	.252	40				.685	.247	51	30	
		.486	.568	.625	.563	.709	.859							.687	1.110	1.253				.633	.942	1.238		
25																								25
20									.437	.185	14	.778		1	.357	.112	9				.421	.178	24	20
									.453	.547	.896				.377	.461	.529				.334	.545	.852	
15																								15
10		.464		1																.277	.087	12	10	
																					.281	.343	.442	
5																								5
0																								0
5												.462	.142	2		.351	1				.425	.127	3	5
												.462	.559	.598							.351	.523	.594	
10																								10
15																								15
20																								20
25																								25
30																								30
35												1.741		1							1.741		1	35
40																								40
																		1.691		1	1.327	.293	.61	
45																					1.328	1.576	1.859	
																					2.283	.324	2	
																					2.283	2.582	2.593	
	15E	60E	105E	150E	165W	120W	75W	30W	15E															

LONGITUDE

CODE:

MEAN	ST. DEV.	N
50%	84%	98%

DECEMBER
FL 190

		MEAN									LAT											
70N											70N											
65				.044	.013	10					.044	.013	10	65								
				.045	.055	.061					.045	.055	.061									
60							.037	.014	42					.037	.014	42	60					
							.035	.048	.068					.035	.048	.068						
55							.044	.013	33	.040	.013	65	.033	.013	27		.040	.014	125	55		
							.042	.057	.072	.041	.053	.063	.033	.044	.059		.040	.053	.065			
50													.056	.120	128		.056	.120	128	50		
													.041	.054	.088		.040	.054	.088			
45			.046	.010	23		.021	.008	11	.028	.010	17	.044	.019	76	.036	.010	133	.038	.015	260	45
			.045	.051	.073		.019	.030	.036	.027	.033	.051	.045	.060	.093	.036	.045	.062	.031	.050	.074	
40										.043	.023	101	.047	.016	3	.038	.012	20	.042	.021	124	40
										.040	.054	.098	.042	.060	.067	.038	.046	.061	.038	.053	.096	
35			.048	.012	23		.052		1	.028	.014	24							.038	.015	48	35
			.047	.054	.077					.024	.036	.063							.030	.052	.073	
30	.045	.016	5	.037	.008	18				.034	.016	29							.036	.014	52	30
	.042	.062	.063	.036	.043	.053				.032	.049	.071							.027	.049	.065	
25	.015		1																.015		1	25
20	.040	.016	19				.059	.032	3				.028	.011	13				.037	.018	35	20
	.036	.049	.079				.044	.085	.102				.029	.038	.047				.034	.047	.092	
15																						15
10	.029	.010	6							.023	.011	8							.026	.011	14	10
	.027	.040	.044							.021	.033	.043							.018	.039	.045	
5																						5
0																						0
5						.047	.005	4											.047	.005	4	5
						.046	.052	.055											.046	.052	.055	
10																						10
15																						15
20																						20
25																						25
30																						30
35										.018		1							.018		1	35
40			.041	.012	57					.036	.012	2	.053	.019	3	.042	.013	62	.042	.013	62	40
			.042	.049	.069					.036	.043	.047	.042	.068	.078	.042	.049	.078	.042	.049	.078	
45S						.042	.012	4											.042	.012	4	45S
						.036	.050	.061											.036	.050	.061	

15E 60E 105E 150E 165W 120W 75W 30W 15E

LONGITUDE

CODE: MEAN ST. DEV. N
50% 84% 98%

DECEMBER
FL 210

		MEAN										LAT									
70N													70N								
65						.047	.015	10					.047	.016	10	65					
						.048	.061	.074					.048	.061	.074						
60									.041	.018	42					.041	.018	42	60		
									.039	.052	.081					.038	.052	.081			
55									.049	.014	39	.044	.017	64	.038	.014	27	.042	.016	124	55
									.041	.055	.075	.043	.058	.072	.038	.047	.064	.041	.057	.071	
50						.061	.004	2							.056	.120	127	.056	.119	129	50
						.061	.064	.065							.040	.056	.088	.040	.057	.088	
45		.050	.014	23		.026	.015	13	.033	.011	17	.046	.020	76	.037	.011	133	.040	.016	262	45
		.048	.056	.089		.021	.038	.060	.031	.042	.056	.044	.064	.089	.036	.048	.063	.031	.053	.079	
40	.018	1				.028	.013	5	.047	.034	110	.047	.018	9	.038	.013	21	.045	.031	146	40
						.031	.039	.045	.041	.056	.104	.045	.064	.078	.036	.047	.065	.039	.055	.102	
35			.048	.009	23	.051	.015	5	.031	.015	32							.039	.016	60	35
			.047	.054	.067	.047	.062	.076	.029	.039	.070							.028	.053	.077	
30		.043	.016	5	.038	.009	18				.035	.016	29				.037	.014	52	30	
		.043	.059	.060	.037	.048	.055				.032	.051	.068				.025	.052	.067		
25	.026	1																.026		1	25
20		.042	.015	20		.043	.015	15				.029	.013	13				.039	.016	48	20
		.039	.049	.091		.039	.062	.069				.029	.040	.053				.037	.048	.071	
15					0.000	1												0.000		1	15
10		.032	.010	6					.024	.011	8							.027	.011	14	10
		.028	.043	.047					.022	.037	.042							.020	.042	.047	
5																					5
0		.044		1														.044		1	0
5						.053	.011	5										.053	.011	5	5
						.049	.064	.071										.049	.064	.071	
10																					10
15						.062	.023	3										.062	.023	3	15
						.055	.081	.091										.055	.081	.091	
20									.074		1							.074		1	20
25																					25
30																					30
35						.052	.010	4		.020	1							.045	.015	5	35
						.051	.062	.063										.042	.061	.063	
40		.045	.014	57					.040	.015	2	.062	.021	3				.046	.015	62	40
		.045	.054	.080					.040	.050	.054	.051	.079	.090				.045	.055	.090	
45S						.042	.016	4										.042	.016	4	45S
						.035	.055	.067										.035	.055	.067	

CODE:	MEAN	ST. DEV.	N
	50%	84%	98%

DECEMBER
FL 230

		MEAN												LAT						
70N																		70N		
65						.052	.019	10								.052	.019	10	65	
60						.052	.066	.087								.041	.015	.42	60	
55										.041	.040	.055	.074			.040	.015	.42	55	
50										.044	.015	.33		.048	.019	.64	.040	.015	.27	50
45										.043	.056	.075		.047	.060	.088	.042	.052	.073	45
40																	.057	.120	.128	40
35																	.041	.058	.094	35
30						.054	.018	23									.042	.013	.134	30
25						.050	.065	.104		.022	.008	.11		.033	.019	.18	.045	.070	.117	25
20										.038	.018	.4		.049	.049	.112	.038	.018	.11	20
15										.040	.055	.058		.043	.058	.108	.041	.057	.064	15
10										.035	.015	.6		.039	.030	.32				10
5										.033	.052	.054		.031	.055	.136				5
0																				0
5																				5
10																				10
15																				15
20																				20
25																				25
30																				30
35																				35
40																				40
45S																				45S
	15E	60E	105E	150E	165W	120W	75W	30W	15E											

LONGITUDE

CODE: MEAN ST. DEV. N
50% 84% 98%

DECEMBER
FL 250

		MEAN										LAT											
70N													70N										
65					.059	.026	10						.059	.026	10	65							
					.057	.078	.113						.057	.078	.113								
60								.047	.022	40				.047	.022	40	60						
								.044	.068	.097				.044	.068	.097							
55								.045	.016	33	.052	.025	64	.046	.021	27	55						
								.042	.066	.078	.049	.069	.111	.047	.064	.096	.049	.023	124				
50					.052		1							.060	.120	127	.060	.120	128	50			
														.042	.063	.100	.042	.063	.100				
45			.061	.022	23			.024	.006	11	.040	.028	18	.055	.027	77	.041	.016	137	.046	.023	266	45
			.054	.088	.110			.023	.031	.033	.032	.047	.120	.050	.077	.132	.039	.054	.078	.034	.062	.113	
40								.056	.009	3	.053	.068	107	.042	.005	5	.043	.015	22	.051	.060	137	40
								.053	.064	.065	.044	.059	.175	.040	.017	.048	.042	.053	.078	.044	.059	.134	
35			.051	.014	25			.086	.034	3	.032	.013	26							.044	.020	54	35
			.049	.064	.080			.065	.111	.110	.033	.048	.054							.032	.057	.086	
30		.067	.054	5				.040	.012	18										.042	.028	52	30
		.046	.097	.163				.038	.050	.065										.029	.060	.095	
25	.052																			.052		1	25
20		.048	.018	19				.059	.015	5				.028	.008	13				.042	.018	37	20
		.046	.054	.092				.059	.071	.081				.028	.034	.044				.042	.054	.089	
15		.020		1																.020		1	15
10		.040	.018	6							.027	.010	8							.032	.015	14	10
		.036	.054	.070							.029	.037	.038							.029	.044	.066	
5																							
0																							
5					.054	.010	5													.054	.010	5	5
					.052	.065	.068													.052	.065	.068	
10																							
15					.078	.039	2													.078	.039	2	15
					.078	.104	.114													.078	.104	.114	
20																							
25																							
30																							
35					.119		1				.024		1							.072	.048	2	35
																				.072	.104	.117	
40			.047	.016	57						.067	.006	2	.073	.016	3				.049	.017	62	40
			.045	.062	.091						.067	.071	.073	.067	.086	.094				.044	.065	.094	
45S					.047	.017	4													.047	.017	4	45S
					.045	.060	.071													.045	.060	.071	
	15E	60E	105E	150E	165W	120W	75W	30W	15E														
	LONGITUDE																						

CODE:	MEAN	ST. DEV.	N
	50%	84%	98%

DECEMBER
FL 270

		MEAN												LAT						
70N																	70N			
65							.066	.027	.10								.066	.027	.10	65
							.062	.076	.125								.062	.076	.125	
60											.056	.031	.40				.056	.031	.40	60
											.047	.086	.130				.047	.086	.130	
55											.046	.019	.33	.062	.032	.64	.053	.030	.27	55
											.045	.067	.083	.053	.086	.136	.051	.073	.134	
50														.063	.119	.130	.063	.119	.130	50
														.045	.075	.111	.044	.075	.111	
45	.045	.006	.4			.071	.034	.23		.027	.010	.11		.040	.036	.21	.066	.040	.76	45
	.046	.050	.053			.058	.108	.146		.026	.035	.043		.033	.045	.137	.055	.107	.186	
40	.062	.011	.2							.036	.014	.3		.061	.091	.111	.059	.008	.2	40
	.062	.069	.073							.040	.047	.051		.045	.069	.212	.059	.064	.067	
35	.042		.1			.038	.022	.25		.042		.1		.037	.017	.29				35
						.057	.077	.106						.032	.052	.076				
30	.058		.1	.105	.119	.3	.040	.012	.18					.042	.026	.29				30
				.050	.155	.319	.039	.051	.065					.037	.055	.125				
25	.043		.1							.044		.1								25
20		.048	.021	.21		.052		.1		.043	.012	.8				.025	.010	.13		20
		.046	.058	.103						.039	.052	.068				.025	.034	.043		
15		.013	.003	.2												.013	.003	.2		15
		.013	.015	.016												.013	.015	.016		
10		.050	.028	.6										.030	.010	.8				10
		.045	.067	.101										.028	.040	.042				
5																				5
0		.030		.1																0
5							.060	.015	.5											5
							.054	.076	.081											
10																				10
15							.065	.007	.3											15
							.063	.070	.074											
20								.034	.1											20
25																				25
30																				30
35						.028		.1	.076		.1			.026		.1				35
40						.054	.030	.57						.064	.018	.2	.079	.013	.3	40
						.047	.061	.150						.011	.076	.081	.076	.090	.096	
45S						.054	.013	.4												45S
						.048	.064	.074												
	15E	60E	105E	150E	165W	120W	75W	30W	15E											

LONGITUDE

CODE:

MEAN	ST. DEV.	N
50%	84%	98%

DECEMBER
FL 290

		MEAN										LAT		
70N													70N	
65						.082 .025 10							.082 .025 10	65
						.084 .107 .115							.084 .107 .115	
60								.072 .046 40				.089 .022 3	.073 .045 43	60
								.056 .126 .168				.096 .107 .111	.059 .124 .166	
55								.052 .027 33		.083 .046 64		.065 .042 31	.071 .043 128	55
								.046 .077 .103		.071 .136 .185		.058 .099 .166	.050 .111 .162	
50								.147		1	.041 .007 4	.070 .118 136	.070 .116 141	50
										.043 .048 .048	.048 .090 .171	.048 .090 .171	.048 .090 .169	
45	.061 .035 8			.084 .045 23		.032 .017 11	.051 .029 18	.061 .061 95	.051 .032 141		.064 .047 296		.064 .047 296	45
	.042 .091 134			.062 .137 .173		.031 .039 .071	.042 .082 .113	.065 .128 252	.041 .075 .138		.040 .100 .221		.040 .100 .221	
40	.043 .024 16					.037	1	.063 .063 104	.069 .032 10	.048 .021 20		.059 .055 151		40
	.036 .061 .098							.049 .090 .168	.057 .103 .132	.044 .064 .098		.047 .083 .165		
35	.045 .016 5			.069 .033 23		.049 .027 3	.042 .024 32					.053 .030 63		35
	.048 .050 .061			.059 .110 .128		.035 .070 .085	.036 .073 .096					.045 .087 .124		
30	.044 .011 5	.112 .152 8		.042 .013 18		.056	1	.045 .031 29				.053 .064 61		30
	.044 .056 .057	.059 .070 .032		.044 .055 .064				.040 .064 .133				.044 .061 .159		
25	.032 .001 2	.027	1			.064	1					.039 .015 4		25
	.032 .032 .032											.032 .049 .062		
20		.055 .023 19		.055 .021 4	.087 .039 2	.056 .012 10			.026 .011 13			.049 .025 48		20
		.050 .064 .117		.057 .070 .081	.087 .114 .124	.055 .066 .078			.030 .036 .045			.031 .062 .126		
15		.024 .006 2		.038 .025 6		.032	1					.034 .021 9		15
		.024 .027 .029		.036 .061 .075								.029 .053 .074		
10		.045 .022 8						.029 .008 8				.037 .019 16		10
		.040 .060 .088						.029 .038 .041				.027 .052 .082		
5		.009	1									.009	1	5
0														0
5				.064 .018 5								.064 .018 5		5
				.055 .083 .092								.055 .083 .092		
10														10
15				.053	1	.035	1					.044 .009 2		15
												.044 .050 .053		
20														20
25				.020	1							.020	1	25
30				.032 .006 2		.032 .035 .037						.032 .006 2		30
				.032 .035 .037								.032 .035 .037		
35				.035	1	.071 .037 2		.028		1		.051 .032 4		35
						.071 .095 .106						.032 .072 .103		
40				.061 .042 57				.061 .030 2	.065 .011 3			.062 .041 62		40
				.052 .076 .220				.061 .081 .090	.085 .095 .098			.051 .085 .215		
45S				.056 .014 4								.056 .014 4		45S
				.053 .066 .077								.053 .066 .077		
	15E	60E	105E	150E	165W	120W	75W	30W	15E					
	LONGITUDE													

CODE:

MEAN	ST. DEV.	N
50%	84%	98%

DECEMBER
FL 310

		MEAN												LAT															
70N																			70N										
65									.115	.031	10								65										
60										.094	.056	40			.179	.010	3		60										
									.075	.175	206				.184	.186	.187												
55										.060	.036	33	.115	.066	64	.101	.073	38		55									
										.052	.033	146	.108	.184	.260	.083	.175	.266											
50										.089	.049	6	.075		1	.188				50									
										.079	.143	154				.082	.118	.132											
										.029	.143					.054	.115	.216											
45	.035	.008	6			.106	.058	23	.108	.085	10	.050	.030	13	.074	.060	21	.103	.070	84	.062	.046	137	.079	.060	294		45	
	.031	.044	.049			.091	.174	.208	.057	.203	.274	.033	.091	.097	.040	.149	.210	.080	.158	.280	.048	.089	.212	.048	.135	.250			
40	.048	.005	3			.071	.027	5	.103	.054	5	.036	.013	8	.072	.059	124	.050	.021	7	.063	.033	20	.069	.054	172		40	
	.051	.052	.052			.058	.090	.120	.106	.159	.170	.035	.052	.053	.052	.119	.252	.043	.077	.081	.054	.100	.141	.052	.113	.237			
35	.045	.022	7			.084	.050	27				.048	.024	15	.056	.048	35	.035	.007	3				.062	.046	87		35	
	.037	.054	.088			.067	.125	.209				.042	.067	.103	.047	.064	.218	.033	.041	.045				.048	.101	.205			
30	.041	.008	3			.154	.199	5	.046	.019	18	.061	.047	12	.046	.035	29	.041		1	.022	.009	3	.055	.067	71		30	
	.046	.047	.047			.059	.254	.513	.048	.063	.080	.045	.083	.179	.036	.057	.147				.022	.030	.034	.041	.064	.200			
25	.050	.031	6			.042	.005	2				.043	.014	11										.045	.021	19		25	
	.046	.066	.106			.042	.045	.047				.043	.049	.076										.043	.054	.101			
20						.057	.025	19	.036	.015	6	.046	.009	3	.054	.016	17				.030	.013	13	.048	.022	58		20	
						.053	.066	.124	.039	.046	.057	.046	.053	.056	.052	.069	.083				.030	.045	.051	.033	.061	.112			
15						.058		1	.029	.010	3				.025	.009	4							.031	.014	8		15	
						.025	.037	.041				.026	.032	.035										.023	.041	.056			
10						.049	.025	7				.019		1	.029	.006	3	.029	.008	8				.036	.019	19		10	
						.054	.069	.090				.030	.034	.036	.030	.034	.036	.028	.036	.039				.028	.054	.084			
5												.023	.011	2										.023	.011	2		5	
												.023	.030	.034										.023	.030	.034			
0												.026	.001	2										.026	.001	2		0	
												.026	.026	.026										.026	.026	.026			
5												.057	.026	7										.057	.026	7		5	
												.054	.080	.101										.054	.080	.101			
10												.025	.002	3										.025	.002	3		10	
												.025	.027	.028										.025	.027	.028			
15												.033	.006	2	.023		1							.030	.007	3		15	
												.033	.037	.039										.027	.035	.039			
20												.040	.001	2										.048	.001	2		20	
												.048	.049	.049										.048	.049	.049			
25												.041		1										.041		1		25	
30																													30
35												.078	.024	5				.029		1				.070	.029	6		35	
												.067	.106	.110										.065	.105	.109			
40												.070	.054	57				.058	.018	2	.098	.014	3	.071	.052	62		40	
												.052	.083	.242				.058	.070	.075	.099	.109	.113	.053	.094	.241			
45S												.052	.016	5										.052	.016	5		45S	
												.052	.065	.076										.052	.065	.076			

LONGITUDE

CODE:

MEAN	ST. DEV.	N
50%	84%	98%

DECEMBER
FL 330

		MEAN												LAT						
70N										.215	.022	3			.215	.022	3	70N		
										.214	.233	.241			.214	.233	.241			
65								.193	.049	10				.096	.036	3		.169	.061	20
								.202	.240	.260				.108	.125	.132		.149	.241	.250
60														.158	.082	56		.225	.081	30
														.167	.249	.292		.235	.296	.370
55														.108	.082	40		.153	.090	80
							.190							.082	.174	.292		.149	.260	.313
50														.281	.047	7		.213	.140	15
								.151	.040	4	.181			.296	.326	.351		.220	.383	.429
45	.049	.011	4											.131	.087	100		.082	.064	135
	.054	.058	.055				.145	.081	23	.056	.010	5	.060	.032	.17			.099	.064	.27
40														.074	.190	.227		.112	.229	.333
							.143	.230	.266	.056	.055	.056	.035	.112	.186			.082	.148	.250
35	.077	.024	2											.081	.067	138		.047	.026	10
	.077	.092	.099				.106	.046	3	.124	.057	9	.047	.024	.5	.080	.067	.039	.058	.106
30														.066	.044	34		.077	.046	20
														.047	.089	.107		.060	.120	.189
25	.034	.010	3											.062	.094	.185		.060	.120	.189
	.031	.042	.046				.092	.057	36	.052	.011	2	.063	.045	.25					
20														.077	.152	.226		.077	.152	.226
														.047	.089	.107		.060	.120	.189
15	.054	.038	3	.102	.135	7	.054	.026	18					.077	.046	9		.054	.043	29
	.032	.083	.104				.049	.083	.102					.055	.124	.149		.040	.096	.164
10														.049	.016	7				
							.046	.019	3					.043	.067	.079				
5														.051	.021	9		.033	.012	12
							.052	.029	5	.071	.010	5	.051	.021	.9			.033	.012	.12
0														.040	.077	.084		.032	.047	.054
							.054	.027	21	.069	.082	.086	.040	.077	.084			.032	.047	.054
70E																				
							.040		1	.043	.013	5	.081	.018	2					
65E																				
							.037	.055	.064	.081	.092	.097								
60E																				
							.061	.033	5											
							.056	.087	.117											
55E																				
							.033	0	.000	2				.030	.009	8		.030	.009	8
							.033	.033	.033					.027	.042	.043		.027	.042	.043
50E																				
							.033	0	.000	2										
							.025	.002	2											
							.025	.026	.027											
45E																				
							.005	.002	2	.058	.031	7								
							.005	.006	.006	.057	.080	.112								
							.014	.000	2	.031	.013	4								
							.014	.014	.014	.029	.043	.048								
							.011		1	.027	.012	2	.025	.010	2					
										.027	.034	.038	.025	.032	.035					
							.009		1	.068	.005	2								
							.068	.071	.073	.068	.071	.073								
							.021		1	.079	.018	6								
							.047	.093	.095	.079	.093	.095								
							.103	.040	12	.103	.040	12								
							.056		1	.055	.123	.147								
							.101	.051	9	.095	.123	.197								
							.060	.162	.199	.103	.123	.147								
							.082	.074	58	.090	.052	11								
							.058	.102	.328	.077	.133	.198								
							.059	.013	4	.080	.005	2	.113	.022	3					
							.060	.069	.074	.060	.083	.084	.098	.129	.142					
										.080	.005	2	.113	.022	3					
										.060	.083	.084	.098	.129	.142					
										.059	.013	4								
							.060	.069	.074	.059	.013	4								
										.050	.069	.074								

LONGITUDE

CODE: MEAN ST. DEV. N
50% 84% 98%

DECEMBER
FL 350

		MEAN										LAT																		
70N										286	.045	7	.273	.069	16			.277	.063	23	70N									
										.277	.319	.361	.282	.349	.389			.276	.347	.387										
65								.267	.058	22	.163	.007	2	.160	.033	2			.250	.056	25	65								
								.261	.315	.397	.163	.168	.170	.160	.182	.192			.248	.312	.395									
60					.146		1	.192	.067	7	.169	.095	58						.171	.092	56	60								
								.209	.237	.287	.163	.250	.432						.168	.248	.433									
55						.063	.033	7	.179	.050	14	.146	.097	60	.193	.111	73	.152	.111	34	.165	.106	188	55						
						.073	.085	111	.189	.218	.264	.120	.239	.371	.182	.310	.390	.120	.252	.426		.101	.280	.386						
50						.067	.030	4	.149	.103	14	.190	.121	20	.188	.120	14	.132	.113	150	.142	.115	202	50						
						.069	.051	105	.116	.200	.382	.178	.325	.398	.176	.327	.373	.121	.225	.343		.117	.249	.377						
45	.102	.053	14			.197	.110	23	.11	.017	11	.126	.090	36	.200	.111	77	.164	.107	106	.108	.081	142	.146	.103	409	45			
	.088	.170	.204			.186	.306	.409	.101	.118	.212	.098	.194	.332	.204	.325	.382	.160	.271	.396	.076	.203	.302	.116	.259	.387				
40	.093	.057	22			.119	.100	7	.152	.095	12	.078	.073	37	.100	.078	187	.170	.167	9	.095	.052	20	.101	.082	294	40			
	.071	.133	.240			.065	.186	.318	.110	.264	.35	.055	.149	304	.067	.172	.318	.083	.341	.474	.075	.137	.212	.066	.174	.338				
35	.079	.054	15			.104	.056	28	.057	.024	7	.084	.055	70	.073	.043	45										35			
	.061	.091	.223			.101	.145	.221	.049	.075	.102	.057	.143	.276	.059	.121	.181										.083	.057	165	35
30	.068	.030	15	.104	.083	7	.051	.033	20			.063	.039	71	.060	.051	32									.065	.044	145	30	
	.050	.095	.126	.074	.113	.278	.056	.087	.136			.051	.083	.182	.047	.077	.221									.052	.089	.218		
25				.079	.019	4	.059		1			.054	.025	65													.055	.025	70	25
				.070	.091	.109						.045	.074	.125													.048	.075	.125	
20				.060	.028	21	.017	.001	2	.063	.014	4	.049	.023	28			.032	.014	13						.049	.025	68	20	
				.055	.077	.137	.017	.017	.017	.063	.075	.081	.042	.073	.099			.033	.049	.055						.036	.071	.111		
15				.035	.004	2	.067	.003	2	.043	.012	3	.048	.016	6											.048	.016	13	15	
				.015	.038	.039	.067	.069	.070	.042	.053	.057	.043	.070	.070											.042	.070	.070		
10				.063	.039	8						.037	.013	4	.030	.008	8									.044	.030	20	10	
				.047	.089	.141						.039	.050	.053	.028	.038	.044									.036	.053	.127		
5				.045	.003	2						.025		1													.038	.010	3	5
				.045	.047	.048																				.042	.046	.048		
0				.032	.003	2		.021	1	.031		1														.029	.005	4	0	
				.032	.034	.035																				.030	.033	.035		
5				.017	.002	2		.068	.031	6																.055	.035	8	5	
				.017	.018	.019		.063	.089	.122																.056	.078	.120		
10				.016	.002	2		.027	.003	2																.021	.006	4	10	
				.016	.017	.018		.027	.028	.029																.019	.027	.029		
15				.045	.003	2						.036	.016	4												.039	.013	6	15	
				.045	.047	.048						.034	.051	.057												.031	.050	.057		
20							.052	.016	4																	.052	.016	4	20	
							.046	.064	.077																	.046	.064	.077		
25							.080	.026	8	.016		1														.073	.031	9	25	
							.093	.138	.102																	.092	.098	.102		
30							.071	.030	10	.023		1														.067	.032	11	30	
							.077	.102	.114																	.075	.101	.114		
35						.046	.011	5	.064	.032	6				.027		1									.053	.026	12	35	
						.045	.057	.061	.074	.092	.101															.041	.087	.099		
40						.100	.089	58							.089	.013	2	.136	.028	3						.101	.066	63	40	
						.067	.122	.395							.089	.097	.101	.118	.157	.173						.072	.125	.390		
45S							.071	.008	4																	.071	.008	4	45S	
							.067	.076	.084																	.067	.076	.084		
15E	60E	105E	150E	165W	120W	75W	30W	15E																						

LONGITUDE

CODE:

MEAN	ST. DEV.	N
50%	84%	98%

DECEMBER
FL 370

		MEAN												LAT				
70N																		
65								.263	.106	.24	.276	.081	.12			.268	.099	.36
60								.272	.369	.472	.280	.359	.391			.221	.362	.462
55							.197	.74	.10	.157	.092	.34	.235	.112	.60	.206	.119	.104
50							.157	.422	.400	.134	.254	.365	.240	.339	.496	.169	.331	.400
45							.220	.149	.27	.189	.088	.20	.198	.128	.13	.272	.123	.76
40							.199	.303	.575	.172	.207	.421	.195	.312	.481	.267	.393	.480
35							.337	.156	.17	.143	.087	.14	.213	.152	.2	.285	.121	.10
30							.293	.445	.689	.104	.276	.285	.213	.316	.356	.277	.397	.478
25							.267	.135	.23	.117	.094	.29	.121	.090	.28	.201	.138	.94
20							.255	.374	.547	.117	.257	.315	.093	.208	.327	.187	.345	.432
15							.121	.025	.16	.154	.084	.16	.088	.059	.34	.131	.109	.259
10							.125	.174	.199	.182	.238	.274	.078	.154	.218	.094	.227	.418
5							.119	.037	.2	.105	.065	.34	.102	.065	.47	.310	.196	.42
0							.119	.143	.154	.107	.163	.249	.086	.162	.278	.310	.442	.497
35S							.136	.064	.4	.107	.055	.8	.061	.042	.33	.159	.094	.28
30S							.143	.198	.203	.102	.169	.199	.054	.088	.162	.115	.274	.329
25S							.054	.037	.4	.070	.028	.6	.039	.017	.10	.034	.015	.13
20S							.050	.090	.098	.072	.084	.114	.046	.055	.060	.033	.052	.060
15S										.042	.008	.3	.067	.018	.6	.034	.015	.13
10S										.039	.049	.052	.066	.085	.094	.050	.068	.124
5S										.048	.011	.6	.039	.001	.2	.034	.012	.13
0S										.048	.056	.065	.039	.040	.040	.031	.044	.059
5N										.028		1	.030	.007	.16	.029	.008	.8
10N										.065	.062	.6	.030	.036	.044	.027	.037	.042
15N										.026		1	.027	.006	.11	.029	.006	.11
20N										.027	.033	.033	.027	.037	.040	.027	.037	.040
25N										.026	.003	.6	.026	.007	.9	.026	.007	.9
30N										.026	.028	.030	.027	.031	.037	.027	.030	.036
35N										.053	.036	.10	.032	.008	.9	.034	.063	.117
40N										.042	.075	.128	.034	.040	.040	.034	.063	.117
45N										.032	.012	.11	.033	.010	.6	.032	.012	.17
50N										.033	.045	.049	.033	.040	.050	.033	.045	.051
55N										.043	.013	.14	.024	.003	.2	.040	.014	.16
60N										.044	.054	.065	.024	.025	.026	.040	.054	.065
65N										.050	.021	.11	.015	.002	.2	.045	.023	.13
70N										.049	.057	.096	.015	.016	.017	.044	.057	.094
75N										.069	.021	.5	.018	.001	.2	.054	.029	.7
80N										.063	.065	.104	.018	.018	.018	.058	.074	.103
85N										.126	.003	.2				.126	.003	.2
90N										.126	.128	.129				.126	.128	.129
95N										.139		1	.171	.111	.5	.145	.106	.7
100N										.094	.289	.339				.094	.261	.335
105N										.121	.095	.60				.124	.087	.65
110N										.083	.192	.382				.095	.193	.382
115N										.143	.011	.2	.098	.028	.4	.113	.032	.6
120N										.143	.150	.154	.098	.126	.126	.126	.136	.152

CODE:

MEAN	ST. DEV.	N
50%	84%	98%

DECEMBER
FL 390

																			MEAN	LAT	
70N																				70N	
65				.179		1	.319	.151	50										.317	.151	51
60				.429	.154	25	.279	.133	43	.272	.133	47	.276	.085	9	.314	.151	18	.308	.148	142
55				.263	.484	.655	.270	.415	.575	.248	.410	.566	.258	.341	.433	.332	.468	.503	.256	.467	630
50				.285	.181	44	.311	.155	9	.244	.149	35	.298	.137	85	.234	.159	44	.274	.156	217
45				.293	.122	33	.269	.515	544	.218	.384	.592	.282	.457	.589	.195	.388	.677	.261	.445	616
40				.163	.020	2	.215	.142	18	.247	.031	2	.375	.124	4	.208	.136	134	.228	.139	191
35	.192			.163	.177	.182	.277	.369	.582	.221	.331	.480	.247	.267	.276	.189	.321	.493	.216	.348	544
30				.317	.139	27	.253	.139	44	.135	.109	37	.237	.159	63	.176	.115	129	.217	.145	379
25				.194	.102	8	.259	.396	.480	.129	.232	.369	.192	.385	.576	.229	.367	.717	.196	.357	574
20				.164	.318	.348	.110	.096	25	.152	.108	205	.113		1	.177	.119	30	.151	.109	284
15				.133	.211	.324	.075	.184	.339	.120	.260	.476				.129	.327	.386	.118	.265	442
10				.143	.080	33	.086	.051	29	.129	.106	50				.001		1	.122	.088	122
5				.073	.121	.134	.108	.168	.227	.071	.127	215							.085	.193	347
0				.093	.085	23	.079	.132	.327	.067	.115	210				.031		1	.085	.074	99
-5				.064	.038	21	.060	.030	3	.067	.115	210							.068	.115	377
-10				.015	.009	4	.043	.011	2	.069	.030	27							.059	.033	35
-15				.015	.025	.029	.043	.050	.053	.066	.095	127							.060	.090	127
-20				.064	.038	21	.035	.014	3	.055	.023	15				.033	.016	13	.052	.031	52
-25				.059	.088	.160	.045	.046	.046	.058	.072	.099				.030	.046	.065	.039	.070	116
-30				.049	.015	3	.039	.015	12	.034	.051	.074							.041	.016	15
-35				.046	.062	.068	.034	.051	.074										.035	.054	.076
-40				.095	.066	6	.031	.007	2	.030	.006	19				.031	.010	8	.041	.037	35
-45				.081	.141	.208	.031	.036	.038	.030	.034	.043				.033	.037	.046	.032	.046	152
-50				.015	.010	4			1	.027	.009	22							.025	.010	27
-55				.015	.025	.026	.024			.027	.034	.050							.025	.032	.048
-60							.042	.011	3	.028	.007	19							.030	.009	22
-65							.048	.051	.052	.029	.032	.041							.029	.035	.050
-70							.085	.036	9	.027	.007	14							.042	.030	23
-75							.061	.080	.140	.027	.031	.041							.029	.063	121
-80							.028	.006	11	.025	.008	7							.027	.007	18
-85							.028	.032	.038	.026	.032	.034							.026	.033	.038
-90							.031	.016	11	.022	.008	5							.028	.015	16
-95							.028	.048	.057	.021	.028	.034							.024	.042	.057
-100							.059	.003	2										.059	.003	2
-105							.059	.061	.062										.059	.061	.062
-110							.095	.002	3										.095	.002	3
-115							.094	.097	.098										.094	.097	.098
-120							.092	.003	2										.092	.003	2
-125							.092	.094	.095										.092	.094	.095
-130							.100	.038	3							.026		1	.127	.062	18
-135							.075	.129	.151	.140	.060	14							.127	.192	.218
-140							.148	.090	57	.165	.194	.220				.218	.039	2	.153	.089	62
-145							.112	.247	.362							.218	.244	.254	.119	.247	.361
-150																.203	.047	3			
-155							.130	.055	4							.234	.237	.239	.130	.055	4
-160							.129	.185	.188										.129	.185	.188

LONGITUDE

CODE:

MEAN	ST. DEV.	N
50%	84%	98%

DECEMBER
FL 410

		MEAN															LAT			
70N																				70N
65																				65
60																				60
55																				55
50																				50
45																				45
40																				40
35																				35
30																				30
25																				25
20																				20
15																				15
10																				10
5																				5
0																				0
5																				5
10																				10
15																				15
20																				20
25																				25
30																				30
35																				35
40																				40
45S																				45S
	15E	60E	105E	150E	165W	120W	75W	30W	15E											
	LONGITUDE																			

CODE: MEAN ST. DEV. N
50% 84% 98%

DECEMBER
FL 430

		MEAN												LAT					
70N															70N				
65						.738	.245	10						.738	.245	10	65		
60						.819	.999	1.013						.819	.999	1.013	60		
55									.440	.211	.41			.440	.211	.41	55		
50									.388	.673	.876			.388	.673	.876	50		
45						.460	.013	2	.472	.201	.87	.388	.238	.25	.438	.217	.127	45	
40						.460	.468	.472	.353	.586	.901	.441	.652	.957	.363	.550	.980	40	
35						.608	.149	9	.751		1	.452	.124	7	.325	.180	.129	35	
30						.573	.780	.840				.414	.472	.707	.298	.458	.799	30	
25						.447	.173	28	.457	.294	20	.348	.215	.84	.274	.148	.129	25	
20						.457	.045	8	.251	.156	11	.406	.835	1.035	.231	.442	.614	20	
15						.458	.500	.523	.222	.364	.587	.306	.538	.875	.201	.511	.844	15	
10						.290	.171	14	.226	.172	113	.360	.228	2	.233	.094	20	10	
5						.220	.439	.664	.166	.376	.687	.360	.514	.578	.209	.341	.415	5	
0						.171	.094	27	.156	.119	30							0	
30						.161	.256	.376	.143	.174	.213	.125	.297	.441	.139	.256	.425	30	
25						.110	.043	5	.145	.049	15	.111	.098	28	.114	.092	.69	25	
20						.097	.110	21	.158	.156	208	.084	.175	.365	.095	.168	.414	20	
15	.073	.007	6	.061	.007	3	.038	.027	5	.072	.036	8				.083	.029	22	15
10	.071	.082	.085	.064	.067	.068	.019	.069	.072	.069	.109	.131				.042	.084	.124	10
5									.074	.038	25	.045	.023	13	.064	.036	.48	5	
0									.063	.090	.179	.075	.100	.125	.052	.083	.134	0	
30									.020	.007	5	.026	.002	2	.022	.007	7	30	
25									.021	.027	.031	.026	.027	.028	.024	.028	.031	25	
20																		20	
15									.120	.073	6	.035	.012	8	.053	.081	20	15	
10									.121	.179	.230	.031	.044	.059	.020	.087	.210	10	
5									.012	.005	3	.019	.002	2	.011	.006	9	5	
0									.010	.016	.019	.019	.020	.020	.020	.018	.020	0	
30									.021	.001	2	.019		1	.020	.001	3	30	
25									.021	.021	.021				.020	.021	.021	25	
20									.082	.048	7				.082	.048	7	20	
15									.083	.111	.167				.083	.111	.167	15	
10									.023	.003	2				.023	.003	2	10	
5									.023	.024	.025				.023	.024	.025	5	
0									.033	.016	4	.052	.022	8	.045	.022	12	0	
30									.026	.045	.058	.049	.078	.081	.034	.071	.081	30	
25									.101		1				.101		1	25	
20																		20	
15									.114	.011	2				.114	.011	2	15	
10									.114	.121	.125				.114	.121	.125	10	
5									.105		1				.105		1	5	
0																		0	
30									.196	.110	16	.041		1	.187	.113	17	30	
25									.151	.326	.442				.149	.324	.440	25	
20																		20	
15									.187	.090	57	.252	.158	2	.203	.030	3	15	
10									.172	.289	.379	.252	.359	.404	.214	.227	.232	10	
5																		5	
0									.189	.047	4				.189	.047	4	0	
30									.186	.227	.254				.186	.227	.254	30	

15E 60E 105E 150E 165W 120W 75W 30W 15E

LONGITUDE

CODE: MEAN ST. DEV. N
50% 84% 98%

DECEMBER
FL 450

	MEAN										LAT			
70N											70N			
65				.923	.333	10						65		
				.891	1.313	1.385								
60							.591	.249	.41			60		
							.609	.833	1.041					
55							.527	.295	.33	.564	.238	.65	55	
							.445	.881	1.260	.498	.791	1.075		
50										.402	.208	.129	50	
										.365	.584	.972		
45			.547	.239	.23		.321	.116	.11	.447	.268	.17	45	
			.516	.690	1.115		.307	.429	.537	.459	.695	.970		
40										.289	.197	.99	40	
										.228	.494	.758		
35			.216	.106	.22					.194	.117	.26	35	
			.189	.345	.407					.168	.278	.454		
30	.126	.050	.5	.117	.111	.18	.192		1	.131	.084	.32	30	
	.140	.172	.172	.096	.113	.435				.110	.201	.352		
25													25	
20	.090	.044	.19				.112	.032	.2	.050	.018	.13	20	
	.082	.107	.208				.112	.133	.142	.053	.068	.077		
15													15	
10	.145	.096	.6							.044	.013	.8	10	
	.140	.216	.305							.040	.057	.067		
5													5	
0													0	
5						.116	.098	.5					5	
						.097	.145	.182						
10													10	
15													15	
20													20	
25						.137		1					25	
30						.125	.004	.2					30	
						.125	.128	.129						
35						.134	.002	.2	.098		1		35	
						.134	.135	.136						
40			.218	.106	.57					.226	.084	.2	40	
			.206	.301	.420					.226	.283	.307		
45S						.255	.035	.4					45S	
						.259	.282	.296						
	15E	60E	105E	150E	165W	120W	75W	30W	15E					

LONGITUDE

CODE:

MEAN	ST. DEV.	N
50%	84%	98%

DECEMBER
FL 470

		MEAN												LAT				
70N															70N			
65						1.052	.354	10							1.052	.354	10	65
60						.962	1.454	1.566							.962	1.454	1.566	60
55									.716	.281	.41				.716	.281	.41	55
50									.742	.952	1.334				.742	.952	1.334	50
45									.635	.356	.33	.689	.284	.65	.581	.378	.25	45
40									.592	.969	1.446	.647	1.004	1.246	.472	.772	1.547	40
35															.510	.279	.129	35
30															.486	.765	1.162	30
25									.608	.216	.23				.476	.261	.256	25
20									.647	.819	.990	.341	.157	.11	.347	.604	.936	20
15									.274	.466	.653	.577	.352	.17	.535	.884	1.160	15
10												.335	.196	.99	.364	.194	.19	10
5												.280	.594	.757	.363	.510	.796	5
0												.260	.174	.23				0
5									.225	.456	.535	.220	.464	.641				5
10									.266	.146	.22	.151	.119	.29	.263	.161	.45	10
15									.157	.067	.5	.123	.233	.480	.222	.467	.614	15
20									.162	.218	.237				.146	.115	.52	20
25															.082	.211	.530	25
30																		30
35									.107	.046	.19							35
40									.103	.132	.229	.125	.041	.2	.055	.017	.13	40
45												.125	.153	.164	.058	.074	.076	45
50																		50
55																		55
60																		60
65																		65
70N																		70N
70S																		70S
65																		65
60																		60
55																		55
50																		50
45																		45
40																		40
35																		35
30																		30
25																		25
20																		20
15																		15
10																		10
5																		5
0																		0
5																		5
10																		10
15																		15
20																		20
25																		25
30																		30
35																		35
40																		40
45																		45
50																		50
55																		55
60																		60
65																		65
70S																		70S
70N																		70N

LONGITUDE

CODE:

MEAN	ST. DEV.	N
50%	84%	98%

DECEMBER
FL 490

		MEAN												LAT									
70N															70N								
65						.288	.488	10							.288	.488	10	65					
						.038	1.831	2.039							.038	1.831	2.039						
60									.873	.307	.41				.873	.307	.41	60					
									.834	1.186	1.492				.834	1.186	1.492						
55									.768	.487	.32	.854	.351	.65	.744	.452	.25	55					
									.602	1.320	2.017	.836	1.271	1.521	.660	.947	1.911	.809	.414	1.22			
50															.581	.310	.129	50					
															.534	.939	1.221	.581	.310	.129			
45				.764	.237	.23	.472	.253	.11	.690	.400	.17	.649	.345	.76	.495	.259	.129	45				
				.832	.986	1.083	.345	.833	.920	.554	1.092	1.553	.621	.972	1.384	.468	.714	1.193	.577	.312	.256		
40										.407	.232	.99				.442	.220	.19	40				
										.362	.625	.966				.434	.592	.929	.336	.625	1.001		
35				.335	.196	.22				.292	.190	.23							35				
				.267	.602	.715				.230	.461	.702							.313	.194	.45		
30		.188	.087	.5	.171	.136	.18							.195	.226	.29				30			
		.184	.265	.303	.139	.271	.527							.146	.257	.873				.186	.189	.52	
25																			25				
20		.123	.053	.19				.147	.058	.2				.071	.018	.13				20			
		.125	.144	.258				.147	.186	.203				.079	.086	.096				.105	.051	.34	
15																				15			
10		.202	.139	.6							.046	.013	.8							10			
		.187	.287	.447							.040	.064	.067							.113	.120	.14	
5																				5			
0																				0			
5					.144	.042	.5													5			
					.150	.175	.207													.144	.042	.5	
10																				10			
15																				15			
20																				20			
25																				25			
30																				30			
35											.245		1							35			
																				.245		1	
40				.315	.161	.57				.245	.030	.2	.477	.024	.3				40				
				.283	.463	.645				.245	.265	.274	.462	.495	.509				.321	.159	.62		
45S					.372	.125	.4													45S			
					.384	.476	.528													.372	.125	.4	
																				.384	.476	.528	
	15E	60E	105E	150E	165W	120W	75W	30W	15E														

LONGITUDE

CODE: MEAN ST. DEV. N
50% 84% 98%

DECEMBER
FL 510

		MEAN												LAT									
70N															70N								
65						.430	.534	.10						.430	.534	.10	65						
						1.331	1.980	2.386						1.331	1.980	2.386							
60									1.071	.326	.41			1.071	.326	.41	60						
									1.098	1.357	1.838			1.098	1.357	1.838							
55												.995	.396	.65	.929	.512	.25	55					
									.830	1.477	2.031	.977	1.317	1.870	.808	1.359	2.161	.863	.453	1.22			
50														.724	.374	.129	.724	.374	.129	50			
														.657	1.067	1.672	.657	1.067	1.672				
45			.911	.297	.23				.471	.196	.11	.947	.507	.17	.817	.438	.76	.617	.319	.129	45		
			.862	1.235	1.475				.445	.690	.841	.810	1.653	1.792	.780	1.252	1.843	.564	.917	1.437	.719	.390	.256
40												.522	.302	.99				.561	.253	.19	.529	.295	.118
												.457	.837	1.284				.445	.837	1.277	.424	1.089	1.731
35				.439	.206	.22						.389	.278	.23							.414	.247	.45
				.406	.670	.822						.339	.616	1.070							.379	.669	.923
30			.227	.095	.5	.206	.152	.18				.252	.291	.29							.234	.238	.52
			.206	.311	.370	.170	.301	.605				.148	.336	1.117							.124	.339	.762
25																							
20			.120	.062	.19				.169	.076	.2				.085	.028	.13				.121	.060	.34
			.145	.170	.293				.169	.221	.242				.087	.119	.132				.092	.160	.280
15																							
10			.230	.158	.6							.052	.015	.8							.128	.137	.14
			.211	.321	.513							.049	.066	.076							.053	.245	.470
5																							
0																							
5						.158	.047	.5													.158	.047	.5
						.165	.200	.220													.165	.200	.220
10																							
15																							
20																							
25																							
30																							
35												.248		1							.248		1
40				.408	.198	.57						.407	.061	.2	.528	.096	.3				.414	.193	.62
				.359	.591	.933						.407	.448	.466	.550	.606	.630				.357	.591	.916
45S						.432	.105	.4													.432	.105	.4
						.451	.509	.552													.451	.509	.552
	15E	60E	105E	150E	165W	120W	75W	30W	15E														
	LONGITUDE																						

CODE:

MEAN	ST. DEV.	N
50%	84%	98%

DECEMBER
FL 530

	MEAN										LAT																					
70N												70N																				
65					1.811	.495	10					1.811	.495	10	65																	
60					1.874	2.158	2.547					1.874	2.158	2.547	60																	
55								1.252	.367	41				1.252	.367	41	55															
50								1.190	1.564	2.170				1.190	1.564	2.170	50															
45								1.123	.540	32	1.172	.437	64	1.054	.470	25	1.134	.475	121	45												
40								1.036	1.682	2.215	1.146	1.588	2.036	1.046	1.387	2.142	1.074	1.586	2.206	40												
35														.889	.409	129	.839	1.335	1.873	.889	.409	129	35									
30														.839	1.335	1.873	.889	.409	129	.839	1.335	1.873	30									
25																	.889	.409	129	.839	1.335	1.873	25									
20								1.207	.430	22							.567	.142	11	1.082	.524	17	.975	.511	76	.767	.364	129	.880	.453	255	20
15								1.131	1.352	2.081				.519	.703	.859	1.085	1.715	2.030	1.904	1.380	2.129	.719	1.095	1.752	.775	1.332	1.967	15			
10																	.635	.383	99							.646	.372	118	10			
5																	.541	1.001	1.581							.543	.995	1.577	5			
0																	.509	.389	23							.540	.333	45	0			
5																	.357	.747	1.456							.462	.884	1.447	5			
10																										.320	.275	52	10			
15																										.179	.438	.942	15			
20																													20			
25																													25			
30																													30			
35																													35			
40																													40			
45S																													45S			
	15E	60E	105E	150E	165W	120W	75W	30W	15E																							

LONGITUDE

CODE:

MEAN	ST. DEV.	N
50%	84%	98%

DECEMBER
FL 550

		MEAN												LAT										
70N															70N									
65						1.995	.532	10								65								
						2.148	2.489	2.640																
60									1.426	.318	40					60								
									1.506	1.773	1.935													
55									1.344	.616	32	1.387	.455	64	1.294	.481	25	1.356	.509	121				
									1.314	2.045	2.502	1.309	1.816	2.345	1.268	1.727	2.497	1.303	1.816	2.415				
50															1.100	.447	129	1.100	.447	129				
															1.001	1.586	2.052	1.001	1.586	2.052				
45		1.410	.394	20					.773	.239	11	1.297	.441	17	1.111	.512	76	.954	.372	129	1.053	.448	253	
		1.401	1.835	1.978					.704	.933	1.286	1.331	1.694	2.166	1.038	1.516	2.444	.938	1.313	1.877	.994	1.432	2.014	
40												.833	.395	99				.905	.329	19	.844	.386	118	
												.744	1.295	1.765				.923	1.207	1.391	.735	1.279	1.757	
35					.741	.287	22							.603	.437	23				.670	.378	45		
					.762	1.051	1.241							.456	1.054	1.619				.600	1.082	1.368		
30	.459	.154	5	.373	.233	18							.526	.401	29				.466	.341	52			
	.408	.611	.697	.283	.629	.870							.366	.910	1.679				.272	.705	1.664			
25																								
20	.208	.085	19							.344	.023	2				.137	.041	13				.189	.086	34
	.202	.270	.418							.344	.360	.366				.125	.147	.242				.142	.271	.394
15																								
10	.337	.202	6										.072	.018	8							.186	.187	14
	.290	.427	.712										.070	.091	.102							.092	.325	.647
5																								
0																								
5							.187	.040	5													.187	.040	5
							.198	.222	.239													.198	.222	.239
10																								
15																								
20																								
25																								
30																								
35													.599		1							.599		1
40				.651	.264	57							.910	.067	2	.996	.045	3				.676	.268	62
				.658	.865	1.210							.910	.956	.974	.986	1.034	1.053				.636	.914	1.200
45S							.714	.122	4													.714	.122	4
							.709	.814	.881													.709	.814	.881
	15E	60E	105E	150E	165W	120W	75W	30W	15E															

LONGITUDE

CODE:

MEAN	ST. DEV.	N
50%	84%	98%

DECEMBER
FL 570

	MEAN												LAT													
70N														70N												
65					2.188	.457	10								65											
60					2.228	2.567	2.935								60											
55								1.667	.355	39					55											
50								1.675	1.969	2.500					50											
45								1.590	.610	32	1.609	.459	63	1.524	.454	24	45									
40								1.703	2.164	2.557	1.583	2.056	2.540	1.440	1.927	2.459	1.565	2.056	2.573	40						
35														1.316	.447	129	1.242	1.765	2.233	1.316	.447	129	35			
30								1.657	.435	20	1.016	.178	11	1.614	.313	17	1.384	.490	76	1.181	.355	128	1.302	.435	252	30
25								1.760	2.036	2.301	1.026	1.177	1.294	1.499	1.898	2.259	1.330	1.731	2.374	1.149	1.519	2.090	1.954	1.715	2.237	25
20																				1.050	.347	19	1.065	.393	118	20
15																				1.980	1.324	1.867	1.855	1.247	1.603	15
10																										10
5																										5
0																										0
5																										5
10																										10
15																										15
20																										20
25																										25
30																										30
35																										35
40																										40
45S																										45S
	15E	60E	105E	150E	165W	120W	75W	30W	15E																	

LONGITUDE

CODE:	MEAN	ST. DEV.	N
	50%	84%	98%

DECEMBER
FL 590

	MEAN										LAT														
70N											70N														
65					2.358	.456	10					2.358	.456	10	65										
					2.206	2.750	3.264					2.206	2.750	3.264											
60					1.904	.358	38					1.904	.358	38	60										
					1.938	2.206	2.625					1.938	2.206	2.625											
55					1.813	.578	32	1.833	.468	63	1.788	.441	24	1.818	.495	119	55								
					1.844	2.468	2.647	1.788	2.279	2.870	1.678	2.202	2.610	1.788	2.336	2.764									
50											1.528	.453	129	1.528	.453	129	50								
											1.487	1.963	2.447	1.487	1.963	2.447									
45				1.928	.516	20				1.333	.321	11	2.041	.368	17	1.648	.566	75	1.439	.336	128	45			
				1.911	2.393	2.906				1.283	1.675	1.848	2.059	2.518	2.582	1.502	2.138	3.088	1.422	1.719	2.243	1.483	2.059	2.572	
40										1.325	.421	99							1.221	.386	19	1.309	.417	118	40
										1.304	1.776	2.141							1.243	1.609	1.891	1.259	1.731	2.127	
35				1.184	.388	22				1.057	.397	23										1.119	.398	45	35
				1.111	1.538	1.971				1.138	1.305	1.833							1.138	1.476	2.053	1.138	1.476	2.053	
30				.802	.205	5	.693	.363	18				.911	.416	29							.825	.396	52	30
				.797	1.013	1.061	.628	.922	1.577				.852	1.342	1.831				.621	1.255	1.739	.621	1.255	1.739	
25																									25
20				.449	.254	19				.612	.109	2				.386	.201	13				.435	.234	34	20
				.383	.573	1.133				.612	.686	.717				.376	.652	.698				.345	.640	.966	
15																									15
10				.598	.178	6							.233	.090	8							.389	.225	14	10
				.507	.691	.946							.214	.336	.375							.361	.510	.887	
5																									5
0																									0
5							.306	.027	5													.306	.027	5	5
							.311	.334	.338													.311	.334	.338	
10																									10
15																									15
20																									20
25																									25
30																									30
35													1.035		1							1.035		1	35
40				1.139	.312	57				1.396	.101	2	1.707	.390	3	1.864	2.015	2.077				1.174	.337	62	40
				1.125	1.468	1.792				1.396	1.465	1.493										1.083	1.525	1.923	
45S							1.157	.158	4													1.157	.158	4	45S
							1.235	1.259	1.270													1.235	1.259	1.270	
	15E	60E	105E	150E	165W	120W	75W	30W	15E																

LONGITUDE

Appendix B

Ambient Ozone Climatological Tabulations in 10° Latitude by 45° Longitude by 2000-ft Altitude Intervals by Season

[Units of ozone, ppmv.]

CODE:	MEAN	ST. DEV.	N
	50%	84%	98%

WINTER
FL 190

		MEAN												LAT								
90N																		90N				
80										.043	.010	153	.039	.014	16			.042	.010	169	80	
70										.042	.051	067	.037	.053	060			.042	.051	066	70	
60																		.042	.014	18	60	
50										.042	.015	241	.041	.014	184	.058	.097	199	.047	.057	624	50
40										.030	.012	226	.050	.071	194	.038	.011	682	.040	.031	1199	40
30										.046	.053	079	.044	.060	103	.038	.048	061	.038	.050	069	30
20										.046	.012	122	.043	.012	5	.038	.020	256	.040	.012	72	20
10										.046	.057	076	.050	.053	054	.036	.054	084	.039	.048	069	10
0										.044	.010	2	.044	.014	27	.027	.010	34	.035	.016	104	0
10S										.044	.051	054	.043	.058	073	.030	.037	044	.033	.048	073	10S
20S																			.039	.016	41	20S
30S																			.037	.052	073	30S
40S																			.027	.012	12	40S
50S																			.027	.039	044	50S
60S																						60S
70S																						70S
80S																						80S
90S																						90S
	15E	60E	105E	150E	165W	120W	75W	30W	15E													
	LONGITUDE																					

CODE: MEAN ST. DEV. N
50% 84% 98%

WINTER
FL 210

		MEAN										LAT
90N												
80												
70								.047 .012 153	.048 .024 16			.047 .013 169
60								.046 .057 075	.042 .072 100			.046 .057 077
50												
40												
30												
20												
10												
0												
10												
20												
30												
40												
50												
60												
70												
80												
90S												
	15E	60E	105E	150E	165W	120W	75W	30W	15E			

CODE:

MEAN	ST. DEV.	N
50%	84%	98%

WINTER
FL 230

		MEAN									LAT
90N											90N
80							.053 .019 153	.052 .022 16			80
70							.049 .067 103	.050 .078 089			70
60					.050 .018 18						60
50					.050 .063 089						50
40	.072 1		.056 .019 64		.026 .013 34	.046 .018 241	.050 .021 183	.063 .096 205		.053 .058 629	40
30	.021 .013 4		.051 .055 111		.025 .035 053	.044 .060 095	.047 .063 107	.051 .079 118	.040 .014 698	.043 .032 1241	30
20	.022 .033 036		.048 .061 097		.045 .040 24	.038 .056 082	.039 .059 115		.043 .016 72	.045 .031 513	20
10	.050 .005 3	.036 .015 35	.029 .029 2		.044 .024 19	.042 .016 27	.028 .012 34		.041 .054 090	.037 .018 120	10
0	.050 .054 056	.037 .046 067	.029 .048 056		.046 .070 083	.042 .051 082	.029 .038 057			.023 .051 083	0
10S		.045 .016 40	.033 1		.048 .001 2					.045 .016 43	10S
20S		.045 .059 082			.049 .049 049					.045 .057 060	20S
30S		.029 .013 14								.027 .012 35	30S
40S		.032 .038 051					.026 .011 21			.027 .038 046	40S
50S				.049 .016 6			.022 .036 044			.049 .016 6	50S
60S				.049 .065 069						.049 .065 069	60S
70S				.019 .010 4	.043 .028 3					.029 .029 7	70S
80S				.016 .027 034	.052 .066 072					.018 .053 070	80S
90S				.047 1						.047 1	90S
15E	60E	105E	150E	165W	120W	75W	30W	15E			
			.045 .019 169	.041 .021 16		.043 .017 3				.045 .019 188	
			.043 .058 093	.043 .053 087		.042 .057 063				.043 .058 094	
				.043 .018 4			.038 .023 10			.040 .022 14	
				.039 .057 069			.030 .055 087			.032 .058 087	
	.037 .014 25		.039 .018 2							.037 .014 27	
	.031 .057 065		.039 .050 055							.031 .057 065	
	.022 .003 4			.029 .001 2		.034 .017 27				.032 .015 33	
	.023 .025 025			.029 .030 030		.030 .044 077				.028 .043 074	
									.030 .011 19	.030 .011 19	
									.028 .042 045	.028 .042 045	

CODE: MEAN ST. DEV. N
50% 84% 98%

WINTER
FL 250

		MEAN										LAT												
90N													90N											
80								.064	.029	153	.056	.023	16			.063	.029	169	80					
70								.055	.087	136	.052	.072	107			.055	.084	133	70					
60							.055	.022	18							.055	.022	18	60					
							.050	.071	107							.050	.071	107						
50							.050	.023	239	.056	.028	183	.067	.096	208	.057	.059	630	50					
							.046	.068	113	.049	.074	130	.054	.067	136	.044	.078	125						
40	.024	0.000	2			.065	.026	63	.026	.009	35	.044	.023	247	.064	.077	195	.043	.019	695	.047	.037	1237	
	.024	.024	.024			.056	.090	121	.025	.033	050	.039	.066	099	.050	.078	175	.041	.055	091	.042	.062	120	
30	.028		1			.052	.022	129	.061	.027	18	.048	.048	268	.082	.084	3	.046	.018	72	.049	.039	491	
						.049	.064	110	.056	.081	124	.042	.063	133	.048	.150	192	.045	.058	093	.045	.064	122	
20	.052	0.000	2	.043	.028	34	.047	0.000	2	.038	.029	13	.046	.020	28	.027	.011	34				.038	.023	113
	.052	.052	.052	.047	.053	122	.047	.047	047	.032	.056	106	.042	.053	107	.027	.039	048				.036	.050	109
10				.046	.019	42	.042	.002	2	.058	.006	3										.047	.019	47
				.047	.062	087	.042	.043	043	.059	.063	065										.047	.052	065
0				.032	.016	13							.025	.010	21							.028	.013	34
				.029	.045	067							.024	.036	041							.025	.037	057
10							.049	.016	6													.049	.016	6
							.050	.065	068													.050	.065	068
20				.046	.042	4																.046	.042	4
				.033	.079	111																.033	.079	111
30													.035		1							.035		1
							.047	.019	171	.078	.025	4	.053	.021	3							.048	.020	178
40				.044	.064	089	.067	.097	116	.061	.069	073										.044	.065	090
50							.047	.017	4				.042	.024	10							.043	.022	14
							.045	.060	071				.032	.063	090							.036	.066	089
60																								
70	.043	.018	25				.078		1													.044	.019	26
	.036	.064	080																			.036	.067	080
80	.025	.003	4							.045	.031	27										.042	.029	33
	.026	.028	020				.034	.006	2	.037	.062	134										.034	.036	125
90S																						.038	.016	19
																						.035	.053	068
	15E	60E	105E	150E	165W	120W	75W	30W	15E															
	LONGITUDE																							

CODE:

MEAN	ST. DEV.	N
50%	84%	98%

WINTER
FL 270

		MEAN												LAT		
90N															90N	
80															80	
70									.082	.044	153	.068	.038	16		70
60									.069	.126	210	.059	.091	160		60
50																50
40									.060	.023	18					40
30									.062	.076	116					30
20																20
10									.059	.035	239	.068	.042	184		10
0									.050	.084	157	.053	.107	191		0
10									.073	.098	206	.059	.098	159		10
20									.066	.064	629	.053	.094	178		20
30									.078	.037	63					30
40									.061	.119	153					40
50									.059	.033	128					50
60									.053	.077	144					60
70									.067	.054	19					70
80									.051	.091	212					80
90S									.042	.070	187					90S
80									.045	.018	27					80
70									.042	.050	099					70
60									.045	.018	27					60
50									.043	.056	097					50
40									.029	.012	34					40
30									.044	.021	42					30
20									.039	.023	13					20
10									.047	.063	094					10
0									.048	.021	42					0
10									.039	.023	094					10
20									.025	.014	3					20
30									.019	.037	044					30
40									.053	.021	6					40
50									.051	.075	081					50
60									.057	.015	4					60
70									.060	.069	073					70
80									.034		1					80
90S																90S
80																80
70																70
60																60
50																50
40																40
30																30
20																20
10																10
0																0
10																10
20																20
30																30
40																40
50																50
60																60
70																70
80																80
90S																90S
	15E	60E	105E	150E	165W	120W	75W	30W	15E							
	LONGITUDE															

CODE: MEAN ST. DEV. N
50% 84% 98%

WINTER
FL 290

		MEAN												LAT				
90N																		
80																		
70																		
60																		
50																		
40																		
30																		
20																		
10																		
0																		
10																		
20																		
30																		
40																		
50																		
60																		
70																		
80																		
90S																		
	15E	60E	105E	150E	165W	120W	75W	30W	15E									
	LONGITUDE																	

CODE:

MEAN	ST. DEV.	N
50%	84%	98%

WINTER
FL 310

		MEAN												LAT		
90N															90N	
80															80	
70									.159	.083	.153	.162	.081	.16		70
60									.132	.243	.327	.165	.244	.283		60
50																50
40																40
30																30
20																20
10																10
0																0
10																10
20																20
30																30
40																40
50																50
60																60
70																70
80																80
90S																90S
	15E	60E	105E	150E	165W	120W	75W	30W	15E							

CODE: MEAN ST. DEV. N
50% 84% 98%

WINTER
FL 330

		MEAN												LAT				
90N															90N			
80															80			
70										.235	.109	.153	.266	.082	.16	.237	.107	.169
60										.215	.350	.473	.258	.361	.385	.222	.354	.464
50																		
40																		
30																		
20																		
10																		
0																		
10																		
20																		
30																		
40																		
50																		
60																		
70																		
80																		
90S																		
	15E	60E	105E	150E	165W	120W	75W	30W	15E									

LONGITUDE

CODE:

MEAN	ST. DEV.	N
50%	84%	98%

WINTER
FL 350

		MEAN															LAT					
90N																						90N
80																						80
70																						70
60																						60
50																						50
40																						40
30																						30
20																						20
10																						10
0																						0
10																						10
20																						20
30																						30
40																						40
50																						50
60																						60
70																						70
80																						80
90S																						90S
	15E	60E	105E	150E	165W	120W	75W	30W	15E													
	LONGITUDE																					

CODE: MEAN ST. DEV. N
50% 84% 98%

WINTER
FL 370

		MEAN												LAT												
90N																	90N									
80										.421	.169	.153	.514	.132	.16		.430	.166	.169	80						
70										.393	.610	.789	.509	.636	.786		.411	.614	.791	70						
60								.032	1	.403	.185	.120	.389	.194	.46	.337	.026	.2	.333	.018	.5	.395	.185	.174	60	
50										.435	.583	.745	.363	.576	.744	.337	.355	.362	.324	.347	.364	.331	.579	.753	50	
40										.360	.192	.157	.299	.166	.296	.312	.177	.251	.257	.165	.293	.309	.180	.1174	40	
30										.343	.559	.757	.345	.565	.744	.289	.469	.629	.309	.476	.680	.249	.440	.652	30	
20										.255	.113	.7	.216	.155	.572	.216	.179	.308	.198	.145	.801	.221	.165	.2050	20	
10										.233	.380	.387	.187	.398	.577	.172	.400	.665	.169	.356	.548	.183	.399	.633	10	
0										.162	.124	.32	.164	.131	.209	.169	.120	.79	.153	.132	.1542	.074	.272	.529	0	
10										.113	.331	.455	.117	.284	.548	.049	.079	.141	.137	.257	.469	.072	.057	.609	10	
20										.051	.030	.10	.082	.060	.24	.080	.062	.411	.056	.030	.30	.040	.016	.34	20	
30										.047	.079	.096	.070	.103	.242	.068	.119	.274	.049	.079	.141	.040	.054	.071	30	
40										.061	.041	.59	.048	.024	.41	.031	.022	.84	.058	.028	.8	.033		.1	40	
50										.055	.096	.177	.039	.054	.213	.026	.048	.101	.053	.060	.118	.027	.012	.56	50	
60										.057	.046	.17	.018	.009	.68	.027	.012	.56	.033	.012	.22	.019		.1	60	
70										.040	.088	.176	.017	.029	.033	.026	.035	.067	.030	.039	.064	.027	.016	.036	.082	70
80										.017		.1	.023	.019	.84	.032	.013	.31	.021	.004	.7	.025	.018	.123	80	
90S										.033	.012	.11	.031	.017	.58	.038	.022	.6	.025	.017	.9	.031	.017	.84	90S	
80										.033	.045	.055	.027	.049	.061	.028	.047	.080	.017	.038	.058	.027	.049	.068	80	
70										.046	.021	.11	.050	.031	.27	.018	.001	.3	.032	.023	.2	.043	.026	.53	70	
60										.032	.039	.040	.042	.087	.125	.018	.019	.020	.032	.047	.053	.036	.060	.121	60	
50										.095	.067	.202	.108	.100	.13	.092	.048	.3	.092	.048	.3	.096	.070	.218	50	
40										.078	.137	.366	.066	.241	.325	.118	.128	.132	.032	.047	.053	.077	.138	.361	40	
30										.111	.055	.5	.078	.045	.8	.153	.076	.10	.118	.071	.23	.118	.071	.23	30	
20										.132	.163	.176	.071	.126	.140	.135	.247	.281	.125	.166	.281	.125	.166	.281	20	
10										.157	.021	.3	.171	.172	.172							.157	.021	.3	10	
0										.357	.062	.25	.424		.1							.359	.062	.26	0	
10										.362	.412	.463										.366	.418	.462	10	
20										.287	.033	.4										.437	.134	.33	20	
30										.281	.317	.335										.430	.540	.712	30	
40										.330	.007	.2										.480	.131	.19	40	
50										.330	.334	.336										.500	.589	.645	50	
60																						.480	.131	.19	60	
70																						.500	.589	.645	70	
80																									80	
90S																									90S	
		15E	60E	105E	150E	165W	120W	75W	30W	15E																
		LONGITUDE																								

CODE: MEAN ST. DEV. N
 50% 84% 98%

WINTER
 FL 390

		MEAN												LAT					
90N																			90N
80																			80
70																			70
60																			60
50																			50
40																			40
30																			30
20																			20
10																			10
0																			0
10																			10
20																			20
30																			30
40																			40
50																			50
60																			60
70																			70
80																			80
90S																			90S
	15E	60E	105E	150E	165W	170W	75W	30W	15E										

WINTER
FL 410

CODE:	MEAN	ST. DEV.	N
	50%	84%	98%

		MEAN												LAT										
		.701		1										701		1								
90N																								
80																								
70									.681	.279	.152	.773	.264	.16	.690	.279	.168							
60					.230	1	.618	.267	.32	.638	.124	.5			.611	.257	.38							
50					.674	.312	.163	.460	.266	.54	.512	.223	.355	.538	.252	.209	.409	.220	.210					
40	.170	.071	.2	.517	.250	.120	.558	.281	.144	.321	.219	.161	.379	.255	.424	.335	.204	.713	.382	.249	.1786			
30	.170	.217	.237	.498	.780	.037	.638	1.008	1.309	.300	.535	.804	.511	.730	1.007	.516	.784	1.152	.498	.778	1.158			
20	.229	.174	.71	.210	.174	.184	.339	.192	.25	.266	.204	.150	.239	.208	.285				.256	.153	.76	.241	.193	.791
10	.167	.407	.672	.142	.387	.653	.332	.537	.716	.198	.485	.694	.172	.408	.659				.201	.393	.633	.177	.438	.760
0	.072	.037	.25	.037	.020	.16	0.000	0.000	0.000	.095	.084	.66	.076	.049	.30	.044	.020	.34				.072	.060	.220
10	.075	.096	.161	.034	.049	.085	0.000	0.000	0.000	.074	.150	.294	.075	.094	.189	.043	.068	.080				.055	.098	.251
20				.081	.046	.46	.002	.002	.3	.047	.029	.43										.053	.042	.121
30				.068	.121	.211	.002	.004	.005	.039	.073	.116										.046	.089	.171
40	.050	1		.024	.020	.29	.026	.009	.4	.027	.010	.20	.037	.016	.21							.036	.032	.80
50				.058	.124	.194	.029	.034	.036	.024	.041	.045	.034	.046	.075							.025	.052	.138
60							.045	.032	.24	.030	.006	.4										.043	.030	.28
70							.037	.070	.132	.032	.035	.036										.035	.063	.126
80							.033	.015	.25	.037	.016	.6										.034	.015	.31
90S							.027	.053	.062	.034	.045	.065										.027	.053	.066
15E	60E	105E	150E	165W	120W	75W	30W	15E																
90S																								
80							.079	.056	.22	.074	1											.078	.054	.23
70							.048	.151	.174													.049	.149	.174
60							.137	.081	.164	.169	.173	.3										.142	.082	.212
50							.116	.220	.349	.061	.300	.399										.110	.224	.350
40							.163	.069	.4													.202	.088	.14
30							.164	.231	.235							.218	.090	.10				.195	.302	.322
20																								
10																								
0																								
10																								
20																								
30																								
40																								
50																								
60	.475	.090	.25	.514	1																	.476	.089	.26
70	.478	.578	.622																			.482	.677	.621
80	.409	.072	.4				.496	.135	.2	.623	.180	.27										.589	.183	.33
90S	.429	.470	.481				.496	.588	.626	.644	.816	.910										.611	.791	.900

CODE: MEAN ST. DEV. N
 50% 84% 98%

WINTER
 FL 430

		MEAN															LAT						
90N																			90N				
80																			80				
70										.846 .339 152 .778 1.178 1.672				.971 .327 16 .946 1.265 1.622				.858 .340 168 .765 1.198 1.694	70				
60										.784 .319 18 .819 1.024 1.367								.784 .319 18 .819 1.024 1.367	60				
50										.567 .111 6 .545 .646 .763				.571 .274 241 .548 .834 1.235			.647 312 192 .594 .920 1.451	.491 .248 198 .455 .747 1.152	.569 .284 637 .527 .835 1.278	50			
40										.609 .287 94 .533 .910 1.265				.717 .348 29 .557 1.215 1.360			.316 201 35 .261 .575 .719	.368 .253 236 .308 .643 .984	.440 276 214 .378 .744 1.218	.406 .237 707 .369 .641 .969	.424 .263 1315 .373 .686 1.126	40	
30										.228 .212 149 .151 .390 .844				.301 .180 38 .222 .513 .643			.270 .239 269 .198 .469 .975		.302 .169 72 .274 .458 .725	.265 .221 528 .159 .464 .884	30		
20										.094 .054 12 .076 .098 .236				.083 .059 46 .064 .124 .239			.042 .023 19 .039 .070 .079		.097 .047 16 .091 .154 .180	.084 .040 27 .076 .110 .181	.052 .023 34 .053 .076 .096	.074 .048 154 .037 .106 .229	20
10										.087 .053 45 .066 .134 .232				.021 .013 14 .018 .031 .051				.062 .038 5 .054 .094 .124			.071 .054 64 .055 .127 .221	10	
0										.081 .063 15 .065 .146 .217				.013 .010 10 .013 .023 .029			.020 1		.019 .001 3 .019 .020 .020	.037 .015 21 .034 .044 .074		.044 .044 50 .016 .073 .166	0
10										.068 .046 10 .062 .099 .163											.066 .046 10 .062 .099 .163	10	
20										.031 .015 5 .025 .040 .058								.052 .022 8 .049 .078 .081			.044 .022 13 .035 .069 .081	20	
30										.104 .002 2 .104 .105 .106											.104 .002 2 .104 .105 .106	30	
40										.150 .085 164 .134 244 .357				.158 .093 35 .125 .205 .413				.182 .163 3 .094 .309 .397			.152 .069 202 .121 .244 .384	40	
50										.189 .047 4 .186 .227 .254										.219 .084 10 .209 .309 .358		.211 .076 14 .183 .282 .355	50
60																							60
70										.552 .135 25 .571 .685 .785				.572 1								.553 .132 26 .572 .683 .785	70
80										.516 .120 4 .496 .607 .692				.559 .137 2 .559 .652 .691				.719 .248 27 .757 .942 1.147			.685 .242 33 .696 .929 1.132	80	
90S																				.792 .233 19 .789 .910 1.299		.792 .233 19 .789 .910 1.299	90S
	15E	60E	105E	150E	165W	120W	75W	30W	15E														
	LONGITUDE																						

CODE:	MEAN	ST. DEV.	N
	50%	84%	98%

WINTER
FL 450

		MEAN												LAT		
90N																90N
80																80
70																70
60																60
50																50
40																40
30																30
20																20
10																10
0																0
10																10
20																20
30																30
40																40
50																50
60																60
70																70
80																80
90S																90S
	15E	60E	105E	150E	165W	120W	75W	30W	15E							

LONGITUDE

CODE:

MEAN	ST. DEV.	N
50%	84%	98%

WINTER
FL 470

		MEAN										LAT	
90N													90N
80													80
70													70
60													60
50													50
40													40
30													30
20													20
10													10
0													0
10													10
20													20
30													30
40													40
50													50
60													60
70													70
80													80
90S													90S
	15E	60E	105E	150E	165W	120W	75W	30W	15E				

CODE:	MEAN	ST. DEV.	N
	50%	84%	98%

WINTER
FL 490

		MEAN										LAT
90N												90N
80												80
70												70
60												60
50												50
40												40
30												30
20												20
10												10
0												0
10												10
20												20
30												30
40												40
50												50
60												60
70												70
80												80
90S												90S
	15E	60E	105E	150E	165W	120W	75W	30W	15E			

LONGITUDE

CODE:

MEAN	ST. DEV.	N
50%	84%	98%

WINTER
FL 510

		MEAN										LAT	
90N													90N
80													80
70													70
60													60
50													50
40													40
30													30
20													20
10													10
0													0
10													10
20													20
30													30
40													40
50													50
60													60
70													70
80													80
90S													90S
	15E	60E	105E	150E	165W	120W	75W	30W	15E				
	LONGITUDE												

CODE: MEAN ST. DEV. N
50% 84% 98%

WINTER
FL 530

		MEAN									LAT
90N											90N
80						1.997 .615 147 1.963 2.594 3.147	2.207 .433 16 2.182 2.670 2.907			2.017 .603 163 1.972 2.622 3.133	80
70					1.773 .504 18 1.874 2.130 2.552					1.773 .504 18 1.874 2.130 2.552	70
60						1.300 .456 239 1.243 1.725 2.368	1.372 .579 183 1.247 1.960 2.581	1.126 .495 199 1.071 1.591 2.335		1.266 .517 621 1.207 1.819 2.456	60
50			1.347 .502 .61 1.324 1.937 2.324		.777 .425 34 .703 1.093 1.842	.845 .499 223 .741 1.306 2.183	.992 .528 186 .899 1.427 2.187	.916 .446 710 .848 1.328 2.016		.932 .483 1214 .741 1.380 2.134	50
40			.496 .397 119 .365 .888 1.748			.607 .440 252 .459 1.065 1.884		.777 .365 70 .738 1.078 1.605		.604 .427 441 .483 1.024 1.794	40
30		.254 .188 34 .185 .433 .708				.190 .089 27 .165 .249 .441	.108 .038 34 .104 .141 .194			.184 .139 95 .139 .253 649	30
20		.177 .107 39 .165 .230 .469			.230 .104 2 .230 .300 .329					.179 .107 41 .165 .231 469	20
10		.207 .155 12 .194 .281 .566				.067 .031 21 .065 .088 .139				.118 .118 33 .072 .198 418	10
0				.155 .062 6 .159 .221 .233						.155 .062 6 .159 .221 .233	0
10											10
20											20
30											30
40			.380 .191 164 .343 .580 .812			.576 .185 3 .522 .728 813				.384 .192 167 .346 .582 823	40
50				.547 .124 4 .564 .640 895			.633 .288 10 .604 .971 1.082			.608 .255 14 .490 .831 1.082	50
60											60
70	1.517 .313 24 1.507 1.771 2.152		1.855 1							1.531 .314 25 1.507 1.816 2.148	70
80	1.199 .167 4 1.277 1.306 1.325			1.312 .321 2 1.312 1.529 1.619		1.510 .264 27 1.507 1.775 1.971				1.460 .280 33 1.489 1.764 1.929	80
90S								1.705 .322 19 1.730 2.089 2.240		1.705 .322 19 1.730 2.089 2.240	90S
	15E	60E	105E	150E	165W	120W	75W	30W	15E		
	LONGITUDE										

CODE:

MEAN	ST. DEV.	N
50%	84%	98%

WINTER
FL 550

		MEAN												LAT		
90N																90N
80																80
70																70
60																60
50																50
40																40
30																30
20																20
10																10
0																0
10																10
20																20
30																30
40																40
50																50
60																60
70																70
80																80
90S																90S
	15E	60E	105E	150E	165W	120W	75W	30W	15E							

CODE: MEAN ST. DEV. N
50% 84% 98%

WINTER
FL 570

		MEAN												LAT	
90N															90N
80															80
70															70
60															60
50															50
40															40
30															30
20															20
10															10
0															0
10															10
20															20
30															30
40															40
50															50
60															60
70															70
80															80
90S															90S
	15E	60E	105E	150E	165W	120W	75W	30W	15E						
	LONGITUDE														

CODE: MEAN ST. DEV. N
 50% 84% 98%

WINTER
 FL 590

		MEAN										LAT	
90N													90N
80													80
70													70
60													60
50													50
40													40
30													30
20													20
10													10
0													0
10													10
20													20
30													30
40													40
50													50
60													60
70													70
80													80
90S													90S
	15E	60E	105E	150E	165W	120W	75W	30W	15E				

CODE:	MEAN	ST. DEV.	N
	50%	84%	98%

SPRING
FL 190

		MEAN											LAT																	
90N																														
80								.054	.015	179	.043	.022	25																	
70								.053	.065	.091	.040	.057	.103																	
60							.041	.017	31																					
50							.037	.058	.079																					
40	.060	.012	2		.062	.016	59		.042	.020	50		.052	.016	197	.057	.020	198	.061	.021	225	.057	.020	620						
30	.060	.067	.071		.059	.077	.102		.039	.064	.085		.050	.017	255	.055	.018	184	.056	.070	.094	.051	.064	.084	.055	.074	101			
20					.062	.021	135		.058	.029	4		.050	.021	290				.059	.029	113	.052	.077	156	.055	.023	542			
10		.049	.014	34	.057		1		.060	.020	5		.053	.012	40	.045	.017	33	.042	.063	.083				.050	.015	113			
0		.038	.012	23	.047	.001	2		.058	.078	.089		.052	.067	.077	.064	.028	3							.049	.064	.084			
10S		.039	.047	.059	.047	.048	.046		.048	.030	.090		.035	.002	2	.053	.028	3	.064	.075	.079				.041	.017	34			
20S		.024	.012	9					.045	.072			.035	.036	.037										.037	.050	.084			
30S		.022	.039	.046									.033	.016	43									.027	.050	.062				
40S								.011	.008	9			.031	.051	.063									.011	.008	9				
50S								.010	.017	.026														.010	.017	.026				
60S								.020		1	.038					.330	.446	3						.209	.376	5				
70S																.022	.661	.923						.022	.370	.887				
80S																														
90S					.035	.011	158	.034		1														.035	.011	159				
					.032	.044	.061									.017	.003	5						.032	.044	.061				
								.036	.017	2	.021		1			.017	.020	.021						.022	.012	8				
								.036	.046	.052					.041	1		.025	.007	2	.023		1	.015		1	.026	.010	5	
	.034	.007	18												.025	.030	.032						.023	.035	.040					
	.033	.040	.051		.006		1				.006	1		.030	.005	2								.031	.011	22				
	.023	.003	4					.027	.003	9				.030	.011	24								.032	.036	.050				
	.024	.025	.026					.027	.030	.032				.027	.043	.053								.028	.009	37				
																								.026	.036	.051				
																				.030	.017	29		.030	.017	29				
																				.025	.049	.067		.025	.049	.067				
	15E	60E	105E	150E	165W	120W	75W	30W	15E																					
		LONGITUDE																												

CODE:

MEAN	ST. DEV.	N
50%	84%	98%

SPRING
FL 210

		MEAN											LAT												
90N																						90N			
80																						80			
70										.061	.023	179	.046	.024	25					.059	.024	204	70		
										.057	.075	126	.042	.061	106					.039	.057	076			
60																				.041	.016	31	60		
																				.039	.057	076			
50																				.061	.022	635	50		
										.056	.020	197	.061	.021	198	.065	.023	240	.061	.022	635				
										.055	.069	120	.061	.077	104	.064	.085	113	.059	.078	115				
40	.071	.008	3		.066	.018	59		.049	.029	59	.052	.019	291	.058	.022	214	.053	.017	698	.054	.019	1324	40	
	.067	.077	.081		.062	.080	119		.043	.069	134	.052	.067	102	.058	.074	115	.051	.066	993	.045	.069	106		
30	.044	.016	6		.064	.021	149		.065	.040	24	.054	.038	329	.042		1	.061	.029	113	.058	.033	622	30	
	.040	.064	.065		.060	.079	124		.055	.083	175	.054	.073	101				.054	.080	145	.055	.078	123		
20	.034		1	.052	.015	37	.061	.019	5	.059	.025	50	.053	.013	43	.045	.019	33	.053	.020	169	.053	.020	169	20
				.053	.065	.081	.062	.080	.083	.060	.079	122	.054	.066	079	.043	.064	088	.052	.072	095	.052	.072	095	
10				.041	.014	26	.053	.016	5	.030	.012	6	.036	.007	6	.028	.019	6	.038	.015	49	.038	.015	49	10
				.043	.054	.067	.053	.069	075	.029	.041	046	.038	.041	043	.029	.039	058	.029	.039	058	.039	.053	067	
0				.026	.014	10				.033	.015	44							.032	.015	54	.032	.015	54	0
				.025	.044	.047				.029	.047	065							.029	.047	065	.029	.047	065	
10							.010	.005	9										.010	.005	9	.010	.005	9	10
							.008	.017	018										.008	.017	018	.008	.017	018	
20				.025		1	.025		1						.277	.371	3		.176	.313	5	.176	.313	5	20
															.023	.553	.771		.025	.305	740	.025	.305	740	
30															.019	.010	6		.019	.010	6	.019	.010	6	30
															.020	.027	033		.020	.027	033	.020	.027	033	
40					.035	.011	159	.040	.036	8									.035	.014	168	.035	.014	168	40
					.033	.044	068	.030	.037	122									.033	.044	069	.033	.044	069	
50					.033	.017	2	.018		1					.022	.009	5		.024	.012	8	.024	.012	8	50
					.033	.045	.049								.019	.027	.038		.018	.037	048	.018	.037	048	
60								.029		1	.029	.009	2	.032		1	.015		.027	.008	5	.027	.008	5	60
											.029	.035	.038					.029	.034	038	.029	.034	038		
70	.040	.011	18		.008		1				.006		1	.032	.004	2		.036	.014	22	.036	.014	22	70	
	.037	.051	.060											.032	.034	035		.034	.048	060	.034	.048	060		
80	.026	.001	4					.028	.006	9	.032	.012	24					.030	.010	37	.030	.010	37	80	
	.026	.027	.028					.029	.035	.037	.029	.044	.056					.029	.041	055	.029	.041	055		
90S																		.032	.018	29	.032	.018	29	90S	
																		.028	.047	074	.028	.047	074		
	15E	60E	105E	150E	165W	120W	75W	30W	15E																
	LONGITUDE																								

CODE: MEAN ST. DEV. N
 50% 84% 98%

SPRING
 FL 230

		MEAN												LAT					
90N																90N			
80										.070	.031	179	.056	.034	25		.068	.032	204
70										.064	.086	165	.045	.070	150		.063	.086	166
60										.044	.015	31					.044	.015	31
50										.042	.064	071					.042	.064	071
40										.060	.024	197	.068	.028	197		.066	.026	630
30										.057	.078	127	.065	.085	151		.063	.094	126
20										.069	.026	236	.068	.026	236		.056	.026	1335
10										.064	.042	202	.060	.063	139		.054	.019	700
0										.054	.071	106	.054	.069	105		.052	.072	113
10										.059	.014	5	.061	.018	3		.059	.027	624
20										.058	.074	077	.064	.076	081		.054	.081	156
30										.019	1		.054	.018	36		.061	.031	113
40										.054	.018	36	.054	.018	36		.052	.020	141
50										.041	.017	24	.043	.056	099		.050	.070	100
60										.037	.058	072	.034	.050	051		.035	.017	50
70										.028	.013	10	.034	.050	051		.033	.051	070
80										.030	.042	048					.032	.016	54
90S										.011	.006	9	.033	.017	44		.031	.048	072
										.011	.017	021	.031	.048	072		.011	.006	9
10										.068	1		.024	.295	3		.011	.017	021
20													.023	.443	616		.185	.264	4
30										.041	1		.019	.014	9		.038	.366	607
40													.014	.036	043		.022	.015	10
50													.037	.012	160		.018	.040	043
60													.031	.007	3		.036	.012	163
70													.032	.018	2		.035	.047	072
80													.032	.043	048		.028	.020	8
90N													.016	1			.017	.046	069
													.031	1			.030	.011	5
10													.033	.011	2		.031	.042	044
20													.033	.040	044		.040	.015	22
30													.034	.003	2		.037	.053	065
40													.034	.035	036		.036	.020	37
50													.036	.023	24		.033	.049	086
60													.029	.049	096		.033	.018	29
70													.034	.006	4		.033	.049	086
80													.034	.040	040		.033	.018	29
90S													.034	.040	040		.031	.046	076
													.033	.018	29		.031	.046	076

LONGITUDE

CODE:	MEAN	ST. DEV.	N
	50%	84%	98%

SPRING
FL 270

		MEAN												LAT	
90N															90N
80															80
70															70
60															60
50															50
40															40
30															30
20															20
10															10
0															0
10															10
20															20
30															30
40															40
50															50
60															60
70															70
80															80
90S															90S
	15E	60E	105E	150E	165W	120W	75W	30W	15E						
	LONGITUDE														

CODE:

MEAN	ST. DEV.	N
50%	84%	98%

SPRING
FL 310

		MEAN															LAT			
90N																				90N
80																				80
70																				70
60																				60
50																				50
40																				40
30																				30
20																				20
10																				10
0																				0
10																				10
20																				20
30																				30
40																				40
50																				50
60																				60
70																				70
80																				80
90S																				90S
	15E	60E	105E	150E	165W	120W	75W	30W	15E											

LONGITUDE

CODE:

MEAN	ST. DEV.	N
50%	84%	98%

SPRING
FL 330

		MEAN												LAT					
90N																			
80																			80
70																			70
60																			60
50																			50
40	.139 .101 .19 .110 .242 .359																		40
30	.118 .102 .55 .072 .227 .396																		30
20	.053 .013 .3 .049 .064 .070																		20
10																			10
0																			0
10																			10
20																			20
30	.021 .016 .4 .020 .034 .044																		30
40																			40
50																			50
60																			60
70	.203 .070 .18 .213 .266 .314																		70
80	.118 .087 .4 .117 .204 .219																		80
90S																			90S
	15E	60E	105E	150E	165W	120W	75W	30W	15E										
LONGITUDE																			

CODE: MEAN ST. DEV. N
50% 84% 98%

SPRING
FL 390

		MEAN												LAT												
90N															90N											
80										.743	.176	.186	.772	.181	.35	80										
70										.737	.919	1.115	.751	.944	1.157	70										
60						.622	.165	.48	.611	.199	.244	.606	.139	.24	.601	.115	.19	.434	.146	.6	60					
50						.636	.173	.291	.571	.206	.101	.585	.227	.252	.532	.192	.295	.490	.185	.304	50					
40	.153	.148	.15		.531	.247	.109	.439	.256	.225	.367	.253	.221	.360	.236	.620	.357	.253	.299	.400	.197	.735	.389	.235	.2224	40
30	.069	.015	.4		.225	.208	.189	.269	.232	.53	.239	.184	.216	.260	.210	.625	.132	.056	.3	.386	.230	.113	.262	.212	1203	30
20	.070	.084	.085		.134	.413	.803	.151	.505	.781	.168	.465	.687	.184	.487	.798	.097	.174	.205	.392	.606	.869	.182	.498	.794	20
10	.049		1	.123	.092	.33	.056	.031	.19	.089	.015	.8	.126	.083	.171	.084	.052	.85	.059	.031	.39	.104	.075	.356	10	
0				.093	.196	.367	.064	.086	.108	.092	.102	.109	.100	.203	.309	.077	.122	.219	.055	.077	.137	.083	.180	.306	0	
10				.077	.048	.24	.039	.018	.13	.046	.006	.3	.036	.018	.21	.032	.026	.11	.053	.026	.9	.051	.036	.81	10	
20				.069	.100	.207	.035	.053	.077	.048	.051	.052	.031	.044	.085	.027	.043	.095	.049	.082	.097	.039	.079	.145	20	
30				.054	.029	.11	.030	.003	.4	.042	.013	.6	.030	.011	.24	.048	.042	.43	.024	.017	.25	.038	.031	.113	30	
40				.045	.090	.093	.029	.032	.035	.044	.051	.061	.030	.039	.049	.043	.056	.138	.023	.037	.053	.034	.050	.093	40	
50							.044	.005	.4	.035	.018	.19	.037	.018	.29				.027	.020	.23	.034	.019	.75	50	
60							.044	.049	.049	.035	.055	.070	.030	.048	.084				.024	.043	.067	.031	.048	.061	60	
70				.036	.010	.2				.045	.017	.28	.036	.012	.8				.027	.015	.15	.038	.017	.53	70	
80				.036	.043	.046				.044	.065	.069	.029	.049	.054				.025	.045	.054	.036	.058	.069	80	
90S				.067	.021	.3	.041	.004	.3	.058	.068	.31	.041	.020	.4				.019		1	.055	.060	.42	90S	
80				.053	.083	.095	.044	.045	.045	.034	.086	.258	.037	.059	.068							.038	.079	.217	80	
70				.051	.021	.3	.114	.074	.163	.104	.086	.49										.111	.077	.215	70	
60				.065	.066	.066	.088	.167	.311	.078	.193	.390										.087	.169	.320	60	
50										.098	.073	.2	.100		1				.079	.062	.5	.086	.062	.8	50	
40										.098	.147	.167							.061	.113	.190	.044	.162	.197	40	
30													.248	1		.252	.051	.2	240		1	.255	.035	.5	30	
20																.252	.286	.300				.248	.290	.300	20	
10	.328	.083	.18		.322	1				.210	1				.296	.045	.2					.319	.080	.22	10	
0	.337	.379	.482												.296	.326	.338					.333	.378	.470	0	
10	.253	.042	.4							.329	.063	.9			.406	.170	.24					.371	.151	.37	10	
20	.237	.287	.319							.316	.402	.430			.385	.578	.701					.342	.541	.690	20	
30																						.412	.102	.29	30	
40																						.388	.508	.605	40	
50																									50	
60																									60	
70																									70	
80																									80	
90N																									90N	
	15E	60E	105E	150E	165W	120W	75W	30W	15E																	
	LONGITUDE																									

SPRING
FL 410

CODE:	MEAN	ST. DEV.	N
	50%	84%	98%

		MEAN												LAT				
90N																		90N
80										.867	.246	.179	.855	.243	.25			80
70									.842	1.089	1.479	.849	1.070	1.373				70
60									.462	.041	.3	.775	.386	.33	.694	.084	.4	60
50									.451	.495	.513	.704	1.010	1.757	.705	.761	.795	50
40									.726	.183	.90	.590	.091	.4	.669	.272	.244	40
30									.701	.899	1.112	.578	.674	.714	.659	.939	1.268	30
20									.405	.183	.12	.443	.252	.175	.406	.216	.436	20
10									.394	.610	.663	.596	.249	.100	.457	.269	.220	10
0									.627	.231	.116	.640	.059	1.058	.383	.624	.900	0
10									.262	.206	.186	.334	.261	.62	.297	.226	.385	10
20									.192	.504	.767	.238	.598	.985	.212	.546	.860	20
30									.348	.219	.26	.091		1	.110	.055	.41	30
40									.321	.557	.799	.031	.012	.24	.074	.099	.154	40
50									.123	.064	.7	.031	.015	.20	.076	.036	.37	50
60									.105	.161	.249	.031	.043	.060	.074	.099	.154	60
70									.064	.055	.26	.032	.011	.6	.045	.077	.42	70
80									.079	.107	.230	.031	.042	.047	.038	.049	.053	80
90S									.061	.031	.10	.031	.042	.047	.031	.042	.054	90S
	15E	60E	105E	150E	165W	120W	75W	30W	15E									

CODE: MEAN ST. DEV. N
50% 84% 98%

SPRING
FL 430

		MEAN												LAT					
90N															90N				
80										1.001	.306	.179	.974	.260	.25		997	.301	.204
70										979	1.313	1.622	927	1.220	1.477		948	1.295	1.620
60																	825	.284	.31
50																	822	1.170	1.304
40																	580	.144	.7
30																	531	.762	.791
20																	734	.297	.197
10																	681	1.022	1.333
0																	721	.260	.205
10S																	616	.235	.222
20S																	609	.846	1.108
30S																	687	.269	.631
40S																	661	.960	1.260
50S																	536	.258	1.360
60S																	395	.757	1.160
70S																	493	.233	.113
80S																	475	.735	.980
90S																	356	.246	.599
																	298	.622	.962
																	110	.065	.121
																	090	.168	.297
																	078	.059	.36
																	059	.110	.237
																	066	.098	.57
																	046	.079	.148
																	036	.011	.12
																	035	.045	.059
																	033	.011	.4
																	032	.043	.048
																	050	.026	.6
																	041	.066	.099
																	043	.024	.3
																	031	.062	.075
																	073		1
																	165	.101	.173
																	140	.256	.432
																	143	.077	.8
																	105	.216	.274
																	331	.060	.5
																	313	.364	.437
																	467	.158	.22
																	454	.562	.748
																	508	.186	.37
																	498	.697	.929
																	574	.146	.29
																	550	.729	.840
																	574	.146	.29
																	550	.729	.840

CODE:

MEAN	ST. DEV.	N
50%	84%	98%

SPRING
FL 450

		MEAN												LAT	
90N															
80															
70															
60															
50															
40															
30															
20															
10															
0															
10															
20															
30															
40															
50															
60															
70															
80															
90S															
	15E	60E	105E	150E	165W	120W	75W	30W	15E						
	LONGITUDE														

CODE:	MEAN	ST. DEV.	N
	50%	84%	98%

SPRING
FL 470

	MEAN									LAT
90N										
80						1.308 .489 179	1.204 .305 25			1.295 .471 204
70						1.186 1.822 2.314	1.233 1.501 1.681			1.175 1.796 2.290
60					1.150 .485 31					1.150 .485 31
					1.130 1.652 2.054					1.130 1.652 2.054
50						.866 .415 196	.861 .374 196	.769 .344 221		.829 .380 613
						.774 1.249 1.987	.784 1.313 1.669	.720 1.095 1.594		.754 1.212 1.731
40			.859 .407 58		.773 .357 50	.595 .287 246	.621 .314 178	.684 .336 720		.669 .334 1252
			.817 1.178 2.027		.727 1.111 1.516	.547 .853 1.380	.536 .941 1.356	.651 .975 1.534		.526 .977 1.529
30			.341 .277 134			.408 .315 288		.606 .321 113		.433 .321 535
			.229 .594 1.167			.327 .665 1.323		.585 .959 1.183		.352 .756 1.239
20	.145 071 33					.176 .110 39	.098 .048 33			.142 .069 105
	.134 232 297					.142 .234 .494	.085 .152 .226			.116 .216 .403
10	.121 .087 22				.057 .032 3					.113 .085 25
	.103 .169 .353				.051 .084 .097					.099 .166 .345
0	.129 .041 9					.087 .184 42				.094 .168 51
	.126 .178 .185					.056 .080 .392				.059 .110 .205
10				.042 .013 9						.042 .013 9
				.039 .056 .066						.039 .056 .066
20							.635 .822 3			.635 .822 3
							.084 1.249 1.728			.084 1.249 1.728
30										
40		.229 .141 158								.229 .141 158
		.191 .354 621								.191 .354 621
50			.200 .074 2	.226 1		.143 .055 5				.168 .066 8
			.200 .250 271			.181 .188 .197				.182 .223 .267
60				.381 1	.509 .058 2	.330 1	.626 1			.471 .111 5
					.509 .548 .565					.451 .588 .621
70	.828 .250 18		.904 1	.474 1	.356 .002 2					.772 .280 22
	.922 1.041 1.247				.356 .357 .357					.815 1.017 1.242
80	.633 .188 4		.744 .344 9		.830 .242 24					.788 .274 37
	.605 .796 .903		.675 .932 1.440		.807 1.061 1.262					.767 1.033 1.346
90S							.921 .181 29			.921 .181 29
							.950 1.095 1.188			.950 1.095 1.188

LONGITUDE

CODE:

MEAN	ST. DEV.	N
50%	84%	98%

SPRING
FL 490

		MEAN												LAT	
90N															90N
80															80
70															70
60															60
50															50
40															40
30															30
20															20
10															10
0															0
10															10
20															20
30															30
40															40
50															50
60															60
70															70
80															80
90S															90S
	15E	60E	105E	150E	165W	120W	75W	30W	15E						

CODE:	MEAN	ST. DEV.	N
	50%	84%	98%

SPRING
FL 510

											MEAN			LAT
90N														90N
80														80
70								1.728 .552 178	1.637 .505 25				1.717 .547 203	70
								1.626 2.318 2.620	1.721 2.095 2.679				1.643 2.285 2.843	
60								1.520 .540 31					1.520 .540 31	60
								1.458 2.058 2.457					1.458 2.058 2.457	
50								1.155 .556 195	1.140 .488 195	1.017 .430 221			1.100 .495 611	50
								1.054 1.685 2.308	1.029 1.660 2.353	1.952 1.426 1.997			1.012 1.599 2.399	
40			1.153 .556 58					1.047 .437 50	.762 .363 246	.835 .395 178	.894 .453 719		1.078 .443 1251	40
			1.079 1.619 2.439					.925 1.626 1.790	.705 1.117 1.720	.769 1.217 1.956	.839 1.263 2.141		1.813 1.263 2.031	
30			.457 .340 133						517 .356 288		.787 .405 112		558 .382 533	30
			.338 .747 1.355						.428 .827 1.581		.709 1.237 1.656		1.461 .915 1.607	
20	.201 .101 .32								262 .181 .40	.133 .062 .33			203 .140 105	20
	.186 .271 .436								.190 .448 .677	.120 .157 .307			.156 .312 .633	
10	.158 .108 .22							.081 .049 3					.149 .106 25	10
	.132 .243 .440							.070 .121 .142					.118 .229 .432	
0	.163 .068 9								105 .254 .42				.116 .233 51	0
	.159 .221 .278								.067 .095 .416				.076 .122 .288	
10				.062 .021 9									.062 .021 9	10
				.059 .081 .100									.059 .081 .100	
20											1.272 1.690 3		1.272 1.690 3	20
											1.106 2.525 3.520		1.106 2.525 3.520	
30														30
40			.347 .202 157										.347 .202 157	40
			.303 .515 .860										.303 .515 .860	
50					.318 .104 2		.251 1				.464 .142 5		.401 .149 8	50
					.318 .389 .418						.491 .603 .636		.346 .571 .633	
60							.880 1		.816 .166 2		.630 1	1.034 1	.835 .167 5	60
									.816 .929 975				.880 1.001 1.030	
70	1.290 .366 18		1.928 1			.805 1		.639 .044 2					1.238 .418 22	70
	1.274 1.598 1.973							.639 .669 681					1.237 1.615 2.001	
80	.898 .264 4				1.213 .394 9			1.167 .276 24					1.149 .320 37	80
	.898 1.135 1.239				1.282 1.499 1.939			1.178 1.420 1.707					1.163 1.421 1.858	
90S											1.317 .170 28		1.317 .170 28	90S
											1.301 1.489 1.645		1.301 1.489 1.645	
	15E	60E	105E	150E	165W	120W	75W	30W	15E					

LONGITUDE

CODE:	MEAN	ST. DEV.	N
	50%	84%	98%

SPRING
FL 550

		MEAN												LAT	
90N															90N
80															80
70															70
60															60
50															50
40															40
30															30
20															20
10															10
0															0
10															10
20															20
30															30
40															40
50															50
60															60
70															70
80															80
90S															90S
	15E	60E	105E	150E	165W	120W	75W	30W	15E						
	LONGITUDE														

CODE:

MEAN	ST. DEV.	N
50%	84%	98%

SPRING
FL 570

		MEAN										LAT	
90N													90N
80													80
70													70
60													60
50													50
40													40
30													30
20													20
10													10
0													0
10													10
20													20
30													30
40													40
50													50
60													60
70													70
80													80
90S													90S
	15E	60E	105E	150E	165W	120W	75W	30W	15E				

LONGITUDE

CODE: MEAN ST. DEV. N
50% 84% 98%

SPRING
FL 590

		MEAN												LAT		
90N																90N
80																80
70																70
60																60
50																50
40																40
30																30
20																20
10																10
0																0
10																10
20																20
30																30
40																40
50																50
60																60
70																70
80																80
90S																90S
	15E	60E	105E	150E	165W	120W	75W	30W	15E							

LONGITUDE

CODE: MEAN ST. DEV. N
50% 84% 98%

SUMMER
FL 190

		MEAN												LAT								
90N																90N						
80									.059	.019	151	.041	.015	30		.056	.019	181				
70									.058	.072	091	.038	.058	.071		.056	.070	.089				
60								.045	.018	41						.045	.018	41				
50								.044	.062	.079						.044	.062	.079				
40	.083	1						.053	.020	282	.058	.018	182	.065	.024	175		.058	.021	639		
30	.072	1	.072	.020	53			.053	.072	096	.056	.075	.098	.064	.067	.117		.056	.077	107		
20			.072	.092	.104			.048	.023	34	.049	.017	174	.062	.020	96		.060	.039	583		
10			.054	.028	68			.049	.067	086	.061	.082	.101	.058	.072	090		.057	.073	.095		
0			.052	.080	.127			.073	.035	6	.057	.023	249			.064	.021	83		.058	.024	407
10S			.055	.015	7			.080	.100	.111			.055	.080	.105	.062	.087	.100		.057	.081	108
20S			.038	.019	21			.056	.015	7			.060	.014	33	.054	.020	35		.053	.020	96
30S			.036	.062	.074			.055	.064	061			.060	.075	084	.054	.072	094		.053	.072	.085
40S			.036	.014	41			.033	.012	7										.035	.014	48
50S			.037	.049	067			.027	.040	056										.034	.049	.067
60S			.038	.018	28								.037	.026	91					.037	.025	119
70S			.037	.058	071								.034	.047	.063					.034	.049	.068
80S								.017	.007	9						.057	.002	2		.024	.017	11
90S								.015	.025	028						.057	.058	.059		.016	.039	.058
								.027	.006	3						.016	.003	5		.020	.007	8
								.029	.032	033						.016	.018	.019		.018	.028	032
			.037	.010	182			.045	.019	5										.038	.010	187
			.036	.045	.058			.054	.057	.058										.037	.045	.058
								.043	.007	9			.067	1	.022	.008	6		.037	.015	16	
								.042	.047	.057					.019	.031	.034		.037	.047	.065	
													.037	1					.037		1	
			.038	.007	25														.038	.007	26	
			.036	.045	.054														.036	.045	.054	
			.025	.007	4																	
			.027	.030	.032			.031	.010	4			.031	.012	27				.030	.011	35	
								.031	.041	.043			.029	.042	.052				.027	.042	.052	
																			.032	.015	26	
																			.025	.048	.066	
																			.032	.015	26	
																			.025	.048	.066	

CODE:

MEAN	ST. DEV.	N
50%	84%	98%

SUMMER
FL 230

		MEAN												LAI
90N	80													80
70													70	
60													60	
50													50	
40													40	
30													30	
20													20	
10													10	
0													0	
10													10	
20													20	
30													30	
40													40	
50													50	
60													60	
70													70	
80													80	
90S													90S	
		15E	60E	105E	150E	165W	120W	75W	30W	15E				
								.068 .030 151 .064 .082 114	.049 .020 30 .042 .074 .083			.065 .029 181 .063 .081 110		
						.051 .023 42 .049 .068 103						.051 .023 42 .048 .068 103		
								.057 .023 283 .057 .077 109	.063 .021 182 .063 .082 111	.071 .028 193 .066 .100 127		.063 .025 658 .050 .085 123		
.075 .005 3 .077 .079 .080			.077 .024 53 .077 .102 118			.045 .020 33 .050 .061 085	.053 .023 195 .053 .075 110	.065 .021 113 .067 .083 109	.064 .026 588 .063 .080 112			.062 .025 985 .061 .082 113		
.065 .020 5 .068 .080 .094			.061 .031 72 .057 .082 141			.041 .017 8 .046 .052 067	.082 .025 256 .060 .089 113	.037 1	.069 .022 83 .070 .089 116			.063 .026 426 .060 .088 123		
	.042 .021 22 .042 .061 077		.036 1			.054 .015 10 .058 .063 078	.067 .022 32 .064 .082 116	.058 .023 35 .059 .074 112				.057 .024 100 .048 .076 107		
	.038 .016 43 .037 .054 070		.021 .011 3 .014 .030 036			.033 .010 7 .027 .047 048						.036 .015 53 .036 .052 068		
	.042 .020 29 .037 .064 083						.039 .031 90 .034 .050 070					.040 .028 119 .035 .053 079		
				.014 .003 9 .014 .017 019				.061 .005 2 .061 .064 065				.022 .018 11 .015 .034 063		
				.030 .001 2 .030 .030 030				.021 .006 5 .021 .026 030				.024 .006 7 .023 .030 031		
				.078 1								.078 1		
			.040 .011 191 .038 .050 068		.049 .028 10 .045 .072 100			.038 1				.040 .012 202 .038 .051 071		
					.047 .008 9 .047 .051 063		.077 1	.022 .008 6 .021 .031 035				.040 .017 16 .039 .051 073		
							.046 1					.046 1		
.043 .009 25 .041 .052 062			.036 1									.043 .009 25 .041 .052 062		
.028 .008 4 .030 .034 034				.036 .015 4 .036 .051 054		.035 .014 27 .033 .046 061						.034 .014 35 .033 .047 061		
										.035 .017 28 .029 .052 075		.035 .017 28 .029 .052 075		

CODE: MEAN ST. DEV. N
50% 84% 98%

SUMMER
FL 270

		MEAN												LAT													
90N																			90N								
80										.096	.080	.151		.080	.052	.30			.093	.076	.181	80					
70										.078	.110	.278		.064	.113	.231			.076	.110	.276	70					
60										.064	.035	.42							.064	.035	.42	60					
50										.054	.100	.145							.054	.100	.145	50					
40										.064	.032	.281		.076	.039	.182		.080	.036	.192		.072	.036	.655	40		
30	.083	.021	6		.083	.029	.53		.052	.026	.33		.062	.037	.195		.076	.029	.110		.071	.027	.593	.070	.030	.990	30
20	.085	.104	.106		.084	.114	.137		.050	.082	.103		.057	.082	.147		.070	.099	.150		.067	.090	.154	.062	.092	.149	20
10	.074	.025	.17		.060	.026	.76		.054	.028	.13		.071	.040	.256		.072		1		.074	.024	.83	.069	.035	.446	10
0	.071	.103	.118		.060	.081	.113		.054	.069	.113		.068	.098	.144						.070	.096	.128	.065	.096	.132	0
10S	.066	.011	2		.043	.029	.26		.042	.019	.11		.069	.020	.34		.058	.026	.35					.056	.026	.111	10S
20S	.066	.073	.077		.037	.070	.100		.044	.061	.071		.070	.084	.105		.054	.074	.124					.055	.091	.108	20S
30S					.035	.018	.68		.039	.016	.10		.075	.010	.3		.044		1					.037	.019	.85	30S
40S					.033	.050	.077		.039	.055	.069		.070	.082	.087									.034	.055	.081	40S
50S					.047	.024	.29						.040	.016	.89									.041	.018	.118	50S
60S					.046	.072	.094						.038	.055	.072									.038	.057	.090	60S
70S					.029		1		.014	.005	.9						.063	.004	.2					.024	.019	.12	70S
80S									.014	.018	.022						.063	.066	.067					.016	.036	.065	80S
90S					.029	.012	.4		.029	.012	.4						.027	.003	.5					.028	.008	.9	90S
					.023	.037	.048										.028	.030	.031					.026	.030	.046	
																	.043	.013	.3					.043	.013	.3	
																	.038	.053	.059					.038	.053	.059	
					.049	.024	.192		.058	.031	.5													.049	.024	.197	
					.042	.058	.114		.048	.090	.101													.042	.059	.113	
									.051	.010	.9		.073		1		.037	.018	.6					.047	.016	.16	
									.051	.059	.069						.041	.049	.064					.044	.064	.072	
													.055		1									.055		1	
	.050	.010	.25		.036		1																	.049	.011	.26	
	.047	.057	.073																					.047	.057	.073	
	.031	.011	.4						.041	.017	.4		.044	.024	.27									.042	.023	.35	
	.033	.041	.041						.038	.057	.064		.048	.053	.105									.040	.053	.095	
																								.038	.018	.26	
																								.031	.051	.084	
																								.031	.051	.084	

CODE: MEAN ST. DEV. N
50% 84% 98%

SUMMER
FL 290

		MEAN											LAT						
90N															90N				
80									.125	.090	.151	.123	.100	.30	80				
70									.092	.200	.361	.085	.197	.402	70				
60								.080	.049	.42		.103	.025	.6	60				
50								.065	.130	.195		.102	.124	.140	50				
40	.085	.037	.39			.089	.039	.55			.050	.016	.11	.063	.034	.44	40		
30	.068	.099	.166	.051	1	.059	.026	.84	.146	1	.063	.031	.25	.074	.056	.270	30		
20	.061	.020	.15	.048	.023	.57	.054	.015	.14		.040	.014	.27	.073	.023	.34	20		
10	.057	.088	.092	.043	.073	.103	.051	.073	.081	.027	1	.037	.014	.16	.040	.021	.2	10	
0				.036	.018	.72	.035	.010	.13			.039	.050	.062	.040	.053	.059	0	
10S				.029	.023	.55	.016	.009	.5			.043	.019	.91	.040	.058	.089	10S	
20S				.029	.011	.2	.016	.003	.18	.015	.006	.9				.060	.001	.2	20S
30S				.029	.036	.040	.017	.019	.021	.014	.019	.026				.060	.060	.060	30S
40S				.051	.018	.4	.025	.006	.7	.026	.007	.12				.031	.007	.5	40S
50S				.051	.068	.072	.024	.030	.036	.025	.032	.038				.031	.037	.042	50S
60S				.040	.003	.2	.050	.014	.19	.032	.007	.4				.048	.014	.2	60S
70S				.040	.042	.043	.048	.060	.080	.031	.038	.039				.048	.057	.060	70S
80S							.058	.039	.212	.058	.021	.14							80S
90S							.046	.078	.181	.054	.069	.106							90S
							.055	.013	.9	.052	.071	.074				.062		1	
																.060		1	
	.057	.017	.25				.055		1										
	.054	.068	.104																
	.031	.012	.4							.047	.023	.4				.053	.027	.27	
	.033	.040	.044							.042	.066	.081				.053	.073	.117	
																	.041	.019	.26
																	.034	.058	.089
																	.041	.019	.26
																	.034	.058	.089

15E 60E 105E 150E 165W 120W 75W 30W 15E

LONGITUDE

CODE: MEAN ST. DEV. N
50% 84% 98%

SUMMER
FL 330

		MEAN												LAT				
90N																		
80																		
70																		
60																		
50																		
40																		
30																		
20																		
10																		
0																		
10																		
20																		
30																		
40																		
50																		
60																		
70																		
80																		
90S																		
	15E	60E	105E	150E	165W	120W	75W	30W	15E									
	LONGITUDE																	

CODE: MEAN ST. DEV. N
 50% 84% 98%

SUMMER
 FL 350

		MEAN																		LAT	
90N																					90N
80																					80
70										.354 .165 152 .376 .492 700											70
60										.155 .038 3 .140 .186 204											60
50										.251 .182 43 .187 .519 615											50
40										.114 .097 65 .082 .154 455											40
30										.087 .084 126 .061 .103 388											30
20										.046 .012 22 .044 .061 .066											20
10										.041 .019 92 .035 .058 .088											10
0										.042 .028 69 .031 .067 .113											0
10										.024 .008 26 .025 .030 .036											10
20										.027 .006 25 .027 .034 .043											20
30										.054 .016 4 .051 .067 .077											30
40										.033 .005 6 .034 .037 .040											40
50										.056 .041 56 .049 .078 .134											50
60										.134 .093 248 .106 .219 .398											60
70										.140 .102 11 .085 .280 .306											70
80										.137 .062 25 .123 .209 .254											80
90S										.061 .033 4 .059 .086 .107											90S
	15E	60E	105E	150E	165W	120W	75W	30W	15E												

CODE:

MEAN	ST. DEV.	N
50%	84%	98%

SUMMER
FL 370

		MEAN												LAT		
														90N		
														80		
														70		
														60		
														50		
														40		
														30		
														20		
														10		
														0		
														10		
														20		
														30		
														40		
														50		
														60		
														70		
														80		
														90S		
15E	60E	105E	150E	165W	120W	75W	30W	15E								
LONGITUDE																
									.446	.141	.155	.510	.150	.51		
									.449	.570	.738	.513	.640	.870		
												.557	.004	.4		
												.557	.560	.562		
												.323	.199	.67		
												.292	.547	.661		
												.379	.189	.490		
												.291	.578	.669		
												.277	.176	.1465		
												.255	.488	.614		
												.277	.176	.1465		
												.255	.488	.614		
												.160	.135	.2070		
												.084	.291	.547		
												.192	.137	.629		
												.142	.336	.549		
												.095	.084	.84		
												.111	.223	.346		
												.085	.082	.1440		
												.054	.128	.365		
												.061	.041	.748		
												.053	.085	.190		
												.042	.026	.211		
												.036	.061	.101		
												.040	.025	.252		
												.032	.061	.110		
												.069	.018	.116		
												.063	.087	.104		
												.059	.018	.18		
												.059	.071	.095		
												.182	.192	.4		
												.078	.312	.489		
												.182	.121	.302		
												.144	.309	.476		
												.356	.133	.2		
												.356	.446	.483		
												.212	.195	.16		
												.103	.349	.701		
												.167	.115	.9		
												.124	.259	.382		
												.063	.1	.6		
												.305	.257	.777		
												.200	.095	.27		
												.206	.284	.404		
												.176	.083	.25		
												.155	.267	.344		
												.176	.083	.25		
												.155	.267	.344		

CODE: MEAN ST. DEV. N
50% 84% 98%

SUMMER
FL 410

		MEAN												LAT						
90N																				
80										521	140	156	552	201	33			526	153	189
70										514	653	629	530	670	983			514	663	930
60										.422	.116	2	.529	.228	50			.422	.116	2
50										.422	.501	.533	.498	.779	1.013			.422	.501	.533
40										.384	.181	104	.111	.061	5			.384	.181	104
30										.401	.549	.746	.117	.175	.183			.401	.549	.746
20										.222	.150	124	.248	.178	212			.222	.150	124
10										.193	.382	.591	.199	.410	.703			.193	.382	.591
0										.091	.114	12	.144	.121	75			.091	.114	12
10S										.059	.089	.382	.113	.210	.923			.059	.089	.382
20S										.062	.035	54	.088	.034	32			.062	.035	54
30S										.057	.086	168	.087	.111	160			.057	.086	168
40S										.045	.030	26						.045	.030	26
50S										.035	.007	4	.034	.041	.045			.035	.007	4
60S										.020	.014	10						.020	.014	10
70S										.014	.024	.053						.014	.024	.053
80S										.033	.007	10						.033	.007	10
90S										.034	.041	.041						.034	.041	.041
										.079	.046	35						.079	.046	35
										.069	.111	.195						.069	.111	.195
										.283	.145	181						.283	.145	181
										.262	.425	.603						.262	.425	.603
										.228	.125	44						.228	.125	44
										.209	.383	.459						.209	.383	.459
										.271	.135	9						.271	.135	9
										.238	.398	.490						.238	.398	.490
										.070		1						.070		1
										.332	.236	6						.332	.236	6
										.253	.466	.777						.253	.466	.777
										.559		1						.559		1
										.372	.091	26						.372	.091	26
										.361	.482	.534						.361	.482	.534
										.355	.121	35						.355	.121	35
										.262	.076	4						.262	.076	4
										.246	.335	.365						.246	.335	.365
										.376	.088	25						.376	.088	25
										.378	.459	.523						.378	.459	.523
										.378	.459	.523						.378	.459	.523

CODE:	MEAN	ST. DEV.	N
	50%	84%	98%

SUMMER
FL 490

		MEAN												LAT	
90N															90N
80															80
70															70
60															60
50															50
40															40
30															30
20															20
10															10
0															0
10															10
20															20
30															30
40															40
50															50
60															60
70															70
80															80
90S															90S
	15E	60E	105E	150E	165W	170W	75W	30W	15E						

LONGITUDE

CODE:	MEAN	ST. DEV.	N
	50%	84%	98%

SUMMER
FL 530

		MEAN												LAT	
90N															
80															
70															
60															
50															
40															
30															
20															
10															
0															
10															
20															
30															
40															
50															
60															
70															
80															
90S															
	15E	60E	105E	150E	165W	120W	75W	30W	15E						

LONGITUDE

CODE: MEAN ST. DEV. N
 50% 84% 98%

SUMMER
 FL 550

	MEAN										LAT	
90N												90N
80												80
70												70
60												60
50												50
40												40
30												30
20												20
10												10
0												0
10												10
20												20
30												30
40												40
50												50
60												60
70												70
80												80
90S												90S
	15E	60E	105E	150E	165W	120W	75W	30W	15E			

CODE:

MEAN	ST. DEV.	N
50%	84%	98%

SUMMER
FL 570

		MEAN												LAT	
90N															90N
80															80
70															70
60															60
50															50
40															40
30															30
20															20
10															10
0															0
10															10
20															20
30															30
40															40
50															50
60															60
70															70
80															80
90S															90S
	15E	60E	105E	150E	165W	120W	75W	30W	15E						
LONGITUDE															

CODE:

MEAN	ST. DEV.	N
50%	84%	98%

SUMMER
FL 590

		MEAN												LAT	
90N															90N
80															80
70															70
60															60
50															50
40															40
30															30
20															20
10															10
0															0
10															10
20															20
30															30
40															40
50															50
60															60
70															70
80															80
90S															90S
	15E	60E	105E	150E	165W	120W	75W	30W	15E						

CODE:

MEAN	S1. DEV.	N
50%	84%	98%

AUTUMN
FL 210

		MEAN												LAT			
90N															90N		
80									.054	.020	143	.037	.016	20	80		
70									.051	.065	103	.034	.056	067	70		
60								.046	.015	23					60		
50								.042	.064	071					50		
40								.045	.016	210	.047	.017	167	.059	.054	206	40
30								.044	.058	083	.046	.061	083	.052	.074	121	30
20								.036	.016	175	.043	.018	172	.044	.016	629	20
10								.040	.052	074	.042	.058	084	.042	.056	080	10
0								.044	.016	629	.043	.017	1070	.043	.017	1070	0
10S								.047	.061	073	.044	.017	54	.046	.022	508	10S
20S								.043	.020	18	.043	.060	086	.045	.063	106	20S
30S								.043	.020	18	.043	.060	086	.045	.063	106	30S
40S								.043	.020	18	.043	.060	086	.045	.063	106	40S
50S								.043	.020	18	.043	.060	086	.045	.063	106	50S
60S								.043	.020	18	.043	.060	086	.045	.063	106	60S
70S								.043	.020	18	.043	.060	086	.045	.063	106	70S
80S								.043	.020	18	.043	.060	086	.045	.063	106	80S
90S								.043	.020	18	.043	.060	086	.045	.063	106	90S

CODE:

MEAN	ST. DEV.	N
50%	84%	98%

AUTUMN
FL 250

		MEAN												LAT					
90N															90N				
80									.067	.032	143	.047	.027	.20	.065	.032	163		
70									.061	.084	144	.041	.075	.106	.059	.084	140		
60								.046	.017	.23					.046	.017	.23		
50								.040	.065	.080					.040	.065	.080		
40								.049	.021	209	.055	.027	167	.063	.046	189	.055	.033	565
30								.041	.023	179	.051	.071	127	.047	.027	631	.050	.074	125
20								.045	.065	109	.045	.065	147	.047	.027	631	.046	.026	458
10								.047	.027	136	.043	.060	.089	.043	.067	.092	.040	.061	098
0								.051	.029	136	.045	.065	147	.045	.021	54	.050	.026	458
10								.045	.018	131	.043	.067	.092	.043	.067	.092	.045	.067	108
20								.052	.018	131	.045	.012	.057	.044	.013	35	.043	.016	86
30								.057	.067	.2	.042	.053	.076	.039	.014	.26	.041	.055	.085
40								.043	.021	.17	.046	.056	.057	.040	.055	.067	.044	.019	58
50								.047	.018	.52	.045	.061	.095				.043	.060	.093
60								.045	.061	.095							.044	.019	58
70								.033	.015	.5							.030	.014	33
80								.034	.044	.054							.030	.045	.056
90S																	.032	.022	13
																	.019	.056	.068
																	.029	.011	6
																	.029	.033	.046
																	.050	.010	2
																	.050	.057	.060
																	.051	.016	210
																	.050	.067	.091
																	.052	.020	14
																	.053	.077	.082
																	.054	.005	2
																	.054	.057	.059
																	.045	.016	71
																	.042	.059	.086
																	.038	.018	59
																	.033	.054	.082
																	.035	.020	37
																	.030	.053	.095

CODE:

MEAN	ST. DEV.	N
50%	84%	98%

AUTUMN
FL 270

									MEAN			LAT	
90N													90N
80								.081 .044 143	.055 .035 20			.078 .044 163	80
70								.068 .109 195	.042 .092 140			.068 .109 195	70
60							.050 .015 23					.050 .015 23	60
50							.051 .065 083					.051 .065 083	50
40	.053 .030 8		.062 .019 62		.035 .018 30		.042 .022 176	.063 .036 167	.066 .055 194		.060 .041 568		40
30	.051 .083 093		.059 .075 125		.031 .048 079		.036 .059 105	.053 .029 141	.044 .064 121		.049 .032 1043		30
20			.053 .018 128		.048 .024 10		.051 .030 258	.033	1		.046 .022 54		20
10	.053 .021 4	.044 .020 16	.017 .006 2		.032 .022 11		.045 .013 35	.040 .014 26			.041 .017 94		10
0	.050 .071 082	.049 .053 089	.017 .020 022		.031 .054 073		.043 .056 070	.037 .053 070			.038 .056 077		0
10		.048 .018 54	.037	1	.017 .010 7		.043	1			.044 .020 63		10
20		.047 .065 097			.014 .027 035						.043 .059 094		20
30		.042 .025 5					.031 .014 28				.032 .017 33		30
40		.043 .064 073					.029 .045 063				.030 .045 068		40
50			.027	1	.022 .017 8				.056 .010 5		.034 .021 14		50
60					.017 .038 054				.057 .064 069		.026 .057 067		60
70					.041 .024 3				.018 .009 2		.032 .022 5		70
80					.040 .060 069				.018 .024 027		.027 .051 068		80
90S					.025	1					.025	1	90S
80	.072	1											80
70			.057 .025 208		.100 .044 2		.027	1			.057 .025 212		70
60			.054 .071 145		.100 .130 142						.054 .072 145		60
50													50
40			.251	1	.058 .018 10	.068	1	.028	1	.020	1	.067 .055 14	40
30					.058 .075 083							.058 .080 208	30
20						.043	1	.062	1			.053 .010 2	20
10												.053 .059 062	10
0	.051 .019 65		.040 .020 4		.046	1	.024	1				.050 .019 71	0
10	.046 .067 108		.035 .058 070									.046 .067 106	10
20													20
30	.032 .018 15				.045 .021 11		.047 .024 33					.043 .023 59	30
40	.032 .039 076				.035 .061 090		.045 .057 110					.037 .056 094	40
50													50
60													60
70													70
80													80
90S										.039 .021 37		.039 .021 37	90S
										.037 .055 104		.037 .055 104	

LONGITUDE

CODE:

MEAN	ST. DEV.	N
50%	84%	98%

AUTUMN
FL 290

		MEAN												LAT		
90N																90N
80																80
70									.103 .063 143							70
60									.083 .154 258							60
50									.064 .028 23							50
40									.063 .083 131							40
30																30
20																20
10																10
0																0
10																10
20																20
30																30
40																40
50																50
60																60
70																70
80																80
90S																90S
	15E	60E	105E	150E	165W	120W	75W	30W	15E							

LONGITUDE

CODE:

MEAN	ST. DEV.	N
50%	84%	98%

AUTUMN
FL 330

		MEAN												LAT														
90N																												
80										.187	.080	.143	.179	.088	.24		.186	.081	.167									
70										.192	.274	.332	.163	.272	.316		.191	.273	.329									
60									.140	.112	.23	.197	.131	.24		.171	.107	.74	.177	.102	.46							
50									.104	.199	.296	.232	.335	.374		.167	.304	.346	.209	.290	.319							
40	.082	.051	.13				.100	.057	.68	.103	.058	.41	.068	.058	.52	.060	.046	.238	.088	.072	.323	.071	.062	.670	.116	.084	.872	
30	.062	.084	.108				.054	.081	.117	.100	.033	.8	.046	.027	.87	.054	.094	.199	.061	.128	.325	.053	.036	.54	.061	.035	.684	
20	.059	.012	.6	.051	.018	.30	.049	.021	.21	.034	.001	.3	.039	.026	.70	.050	.018	.39	.040	.019	.29				.045	.022	.198	
10	.060	.067	.079	.053	.064	.088	.047	.076	.078	.034	.035	.036	.034	.059	.117	.050	.067	.085	.038	.053	.089				.036	.064	.100	
0				.048	.022	.65	.031	.009	.10				.017	.007	.5	.065	.000	.2	.048	.010	.4				.045	.022	.86	
10				.044	.070	.100	.030	.041	.045				.017	.021	.028	.065	.065	.065	.048	.057	.058				.039	.064	.099	
20				.040	.033	.15	.012	.009	.9	.035		.1	.026	.011	.2	.035	.015	.28	.039	.000	.2				.032	.022	.57	
30				.025	.051	.128	.013	.021	.027				.026	.033	.036	.037	.049	.061	.039	.039	.039				.029	.044	.085	
40				.027	.003	.7	.032	.018	.20	.019	.011	.35	.069	.009	.2				.072	.028	.6				.030	.022	.70	
50				.028	.030	.031	.031	.045	.073	.019	.029	.040	.069	.074	.077				.071	.091	.114				.024	.045	.083	
60				.046	.013	.6	.040	.028	.22	.027	.026	.25	.039	.009	.2				.049	.021	.9				.037	.026	.64	
70				.042	.059	.068	.031	.071	.101	.019	.041	.106	.039	.045	.048				.043	.073	.081				.022	.056	.102	
80				.053	.001	.2	.076	.030	.24	.081	.063	.43							.068	.025	.8				.077	.051	.77	
90S				.053	.054	.054	.078	.099	.130	.074	.107	.261							.077	.092	.097				.074	.099	.251	
10	.030	.1					.114	.086	.209	.110	.079	.43				.093		.1	.060	.008	.3				.112	.085	.257	
20							.083	.183	.377	.090	.163	.369							.061	.067	.070				.083	.178	.377	
30										.111	.082	.13	.188		.1	.037		.1	.279		.1				.121	.089	.16	
40										.076	.154	.313													.078	.199	.327	
50										.062	.038	.4	.322		.1	.076		.1							.108	.101	.6	
60										.056	.092	.117													.064	.161	.302	
70	.096	.046	.65				.123	.050	.4				.038		.1	.198		.1							.098	.048	.71	
80	.085	.151	.169				.106	.161	.201																.089	.152	.203	
90N	.071	.042	.15							.100	.055	.11				.126	.086	.33							.107	.075	.59	
	.065	.119	.154							.094	.136	.216				.105	.205	.367							.094	.159	.344	
																										.082	.042	.37
																										.065	.119	.181

CODE:

MEAN	ST. DEV.	N
50%	84%	98%

AUTUMN
FL 350

		MEAN												LAT				
90N																		90N
80																		80
70																		70
60																		60
50																		50
40	.077 .053 40 .059 102 226																	40
30	.076 .035 68 .070 115 153																	30
20	.058 .020 11 .050 078 093																	20
10																		10
0																		0
10																		10
20																		20
30																		30
40	.045 003 2 .045 047 048																	40
50	.056 026 5 .050 074 101																	50
60	.208 .093 5 .151 298 360																	60
70	.150 071 65 .138 220 282																	70
80	.110 .059 15 .106 137 251																	80
90S																		90S
	15E	60E	105E	150E	165W	120W	75W	30W	15E									
	LONGITUDE																	

CODE:

MEAN	ST. DEV.	N
50%	84%	98%

AUTUMN
FL 370

		MLAN												LAT					
90N																			
80																			
70																			
60																			
50																			
40																			
30																			
20																			
10																			
0																			
10																			
20																			
30																			
40																			
50																			
60																			
70																			
80																			
90S																			
	15E	60E	105E	150E	165W	120W	75W	30W	15E										

CODE: MEAN ST. DEV. N
 50% 84% 98%

AUTUMN
 FL 390

		MEAN												LAT													
90N										.351	.078	3												.351	.078	3	90N
80										.351	.416	.443												.351	.416	.443	80
70																											70
60																											60
50																											50
40																											40
30																											30
20																											20
10																											10
0																											0
10																											10
20																											20
30																											30
40																											40
50																											50
60																											60
70																											70
80																											80
90S																											90S
	15E	60E	105E	150E	165W	170W	75W	30W	15E																		
	LONGITUDE																										

AUTUMN
FL 410

CODE: MEAN ST. DEV. N
50% 84% 98%

		MEAN																		LAT																														
		15E			60E			105E			150E			165W			120W			75W			30W			15E																								
90N		.396	.009	2													.380	.036	6						.398	.043	7	.390	.038	15	90N																			
80		.396	.402	405													.411	.137	143	.437	.163	20	.498	.057	4	.416	.140	167	.394	.429	.463	80																		
70																	.408	.526	734	.439	.581	738	.504	.549	.566	.416	.549	.765				70																		
60																	.453	.084	11	.347	.156	71	.266	.107	22	.338	.092	16	.323	.148	138				60															
50																	.408	.525	630	.332	.491	693	.249	.360	.529	.337	.370	.567	.323	.462	.657				50															
40																	.326	.128	201	.257	.158	66	.263	.138	332	.279	.129	301	.228	.117	303	.258	.134	1203				40												
30																	.332	.456	581	.236	.419	588	.247	.394	.595	.259	.399	.577	.258	.399	.577	.258	.399	.577				30												
20																	.199	.103	107	.212	.125	204	.166	.117	251	.157	.111	405	.165	.104	645	.174	.115	1853				20												
10																	.108	.060	17	.106	.138	254	.181	.299	.440	.196	.339	.480	.132	.279	.452	.124	.278	.440	.160	.329	.578	.141	.269	420	.144	.291	469				10			
0																	.091	.042	28	.077	.118	206	.089	.054	181	.082	.137	315	.107	.073	80	.107	.068	293	.119	.074	54	.102	.066	669				0						
10S																	.080	.121	237	.082	.137	315	.093	.161	310	.091	.158	296	.099	.172	294	.088	.149	296	.088	.149	296	.088	.149	296				10S						
20S																	.051	.020	16	.054	.071	84	.043	.030	21	.047		1	.065	.045	54	.061	.025	35	.044	.020	30	.055	.033	185	.055	.080	131				20S			
30S																	.067	.035	57	.064	.104	145	.031	.016	16	.020		1	.025	.018	35	.023	.039	64	.076	.029	5	.049	.035	114	.022	.084	137				30S			
40S																	.052	.044	9	.038	.083	139	.026	.011	8	.017		1	.027	.017	11	.022	.047	52	.041	.017	28	.071	.021	5	.040	.026	62	.027	.059	103				40S
50S																	.020	.012	9	.022	.031	640	.034	.013	3							.077	.018	19				.056	.030	31	.061	.086	110				50S			
60S																	.047	.030	10	.033	.084	103										.054	.011	15	.047		1	.051	.021	25	.045	.068	103				60S			
70S																	.060	.055	19	.036	.114	181										.073	.014	3	.082	.083	84	.061	.051	22	.042	.112	176				70S			
80S																	.275	.135	202	.258	.437	555	.219	.148	40	.178	.346	580				.461		1				.267	.139	243	.242	.413	557				80S			
90S																	.381	.197	9	.300	.545	796	.283		1	.278		1	.437		1				.369	.176	12	.286	.486	780				90S						
																	.850	.050	4	.863	.889	902	.353		1	.276		1							.671	.257	6	.811	.879	901										
																	.416	.112	65	.420	.542	589	.450	.144	4	.405	.576	.666	.536	.089	4	.143		1	.578		1	.423	.121	75	.430	.556	623							
																	.358	.057	15	.345	.389	499	.430	.147	12	.380	.585	726				.557	.217	33				.482	.196	60	.355	.658	997							
																																.397	.099	37	.388	.486	604	.397	.099	37	.388	.486	604							

CODE: MEAN ST. DEV. N
50% 84% 98%

AUTUMN
FL 430

		MEAN										LAT										
90N													90N									
80								.501	.184	143	.505	.181	20	80								
70								.486	.613	.996	.509	.649	.841	.502	.184	163	.486	.627	.976			
60					.291	1	.468	.200	.23					.461	.199	24	.395	.706	.822			
50					.355	.157	.15				.309	.163	.222	.263	.123	.178	.307	.157	.611			
40					.359	.496	.636				.296	.456	.667	.316	.490	.720	.253	.378	.558			
30					.227	.135	.110				.164	.122	.222	.229	.144	.184	.200	.118	.620			
20					.204	.351	.572				.128	.269	.519	.187	.373	.612	.175	.322	.506			
10					.107	.082	.169				.125	.082	.250	.087	.065	.16	.149	.082	.54			
0					.090	.144	.408				.102	.197	.324	.076	.140	.248	.154	.212	.320			
90S					.053	.032	.8				.065	.029	.35	.049	.022	.38	.057	.028	.104			
80					.054	.083	.106		.057	.032	.23	.065	.087	.115	.048	.063	.100	.053	.086	.109		
70					.077	.038	.53				.037	.023	.5	.043	.012	.2	.062	.041	.76			
60					.073	.118	.167		.022	.018	.16	.016	.045	.058	.043	.050	.054	.055	.102	.162		
50					.063	.050	.8				.043	.020	.28	.041	.063	.080	.042	.030	.44			
40					.053	.092	.160		.020	.015	.8	.018	.031	.048	.080	.025	.5	.032	.083	.113		
30											.020	.012	.8	.082	.100	.118	.067	.019	.6			
20											.017	.031	.042	.042	.009	.2	.079	.003	.4			
10														.042	.048	.051	.077	.083	.087			
0														.068	.012	.3	.062	.078	.084			
90N														.083	.1		.080	.017	.7			
80														.091	.015	.3	.083	.086	.108			
70														.084	.102	.110	.310	.155	.216			
60														.309	.153	.201	.301	.473	.637			
50														.310	.455	.641	.334	.173	.13			
40														.298	.537	.564	.433	.1				
30														.382	.129	.11	.456	.1				
20														.381	.493	.648	.412	.1	.578			
10																	.495	.083	.2			
0																	.495	.551	.575			
90S														.526	.127	.65	.598	.222	.4			
80														.511	.659	.787	.561	.772	.922	.189	.1	.877
70														.439	.050	.15	.557	.210	.10	.693	.270	.33
60														.441	.476	.546	.473	.814	.928	.577	.967	1.316
50																						
40																				.516	.114	.37
30																				.499	.617	.760
20																				.516	.114	.37
10																				.499	.617	.760
0																						
90S																						

LONGITUDE

CODE:

MEAN	ST. DEV.	N
507	847	987

AUTUMN
FL 450

		MEAN												LAT	
90N															90N
80															80
70															70
60															60
50															50
40															40
30															30
20															20
10															10
0															0
10															10
20															20
30															30
40															40
50															50
60															60
70															70
80															80
90S															90S
	15E	60E	105E	150E	165W	120W	75W	30W	15E						

CODE:

MEAN	ST. DEV.	N
50%	84%	98%

AUTUMN
FL 490

		MEAN										LAT	
90N													90N
80													80
70													70
60													60
50													50
40													40
30													30
20													20
10													10
0													0
10													10
20													20
30													30
40													40
50													50
60													60
70													70
80													80
90S													90S
	15E	60E	105E	150E	165W	120W	75W	30W	15E				

LONGITUDE

CODE: MEAN ST. DEV. N
50% 84% 98%

AUTUMN
FL 510

		MEAN												LAT	
90N															90N
80															80
70															70
60															60
50															50
40															40
30															30
20															20
10															10
0															0
10															10
20															20
30															30
40															40
50															50
60															60
70															70
80															80
90S															90S
	15E	60E	105E	150E	165W	120W	75W	30W	15E						

LONGITUDE

CODE:

MEAN	ST. DEV.	N
50%	84%	98%

AUTUMN
FL 530

		MEAN												LAT						
90N																		90N		
80										1.386	.356	142	1.474	.320	20		1.398	.353	162	80
70										1.359	1.695	2.200	1.394	1.613	2.053		1.347	1.718	2.157	70
60																				60
50																				50
40																				40
30																				30
20																				20
10																				10
0																				0
10																				10
20																				20
30																				30
40																				40
50																				50
60																				60
70																				70
80																				80
90S																				90S
	15E	60E	105E	150E	165W	120W	75W	30W	15E											

CODE: MEAN ST. DEV. N
50% 84% 98%

AUTUMN
FL 550

		MEAN												LAT			
90N																	90N
80																	80
70																	70
60																	60
50																	50
40																	40
30																	30
20																	20
10																	10
0																	0
10																	10
20																	20
30																	30
40																	40
50																	50
60																	60
70																	70
80																	80
90S																	90S
	15E	60E	105E	150E	165W	120W	75W	30W	15E								

LONGITUDE

CODE:

MEAN	ST. DEV.	N
50%	84%	98%

AUTUMN
FL 570

		MEAN												LAT			
90N															90N		
80															80		
70								1.919	.361	142	2.070	.275	20		1.937	.355	162
60								1.927	2.277	2.589	2.091	2.240	2.617		1.906	2.276	2.625
50																	50
40																	40
30																	30
20																	20
10																	10
0																	0
10																	10
20																	20
30																	30
40																	40
50																	50
60																	60
70																	70
80																	80
90S																	90S
	15E	60E	105E	150E	165W	170W	75W	30W	15E								

CODE:

MEAN	ST. DEV.	N
50%	84%	98%

AUTUMN
FL 590

		MEAN										LAT	
90N												90N	
80						2.167 .347 140 2.162 2.504 2.762	2.350 .358 20 2.397 2.664 2.971					2.190 .354 160 2.167 2.522 2.606	80
70												1.959 .323 23 1.966 2.209 2.593	70
60												1.614 .396 172 1.611 1.970 2.498	60
50						1.628 .415 210 1.604 1.965 2.617	1.717 .336 165 1.717 2.050 2.413		1.500 .396 172 1.485 1.812 2.460			1.270 .319 984 1.186 1.559 2.018	50
40						1.425 .350 30 1.331 1.829 2.213	1.159 .352 158 1.123 1.471 2.040		1.329 .316 120 1.295 1.604 1.994		1.276 .289 614 1.249 1.545 1.961	1.122 .319 53 1.155 1.433 1.766	40
30												886 .303 416 806 1.187 1.583	30
20												1.122 .319 53 1.155 1.433 1.766	20
10												.556 .199 77 542 .770 .930	10
0												.505 .174 55 493 .666 .908	0
10												.361 .136 32 326 .527 .611	10
20												.439 .142 13 377 .618 .655	20
30												.605 .150 2 605 .706 .748	30
40												.605 .150 2 605 .706 .748	40
50												.605 .150 2 605 .706 .748	50
60												.605 .150 2 605 .706 .748	60
70												.605 .150 2 605 .706 .748	70
80												.605 .150 2 605 .706 .748	80
90S												.605 .150 2 605 .706 .748	90S
	15E	60E	105E	150E	165W	120W	75W	30W	15E				

LONGITUDE

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16. Abstract A climatology of ozone for altitudes from FL190 to FL590 (19 000 to 59 000 ft) is presented. Climatological tables are given in two appendixes: one with 5 ⁰ latitude resolution on a monthly basis, and one with 10 ⁰ latitude resolution on a seasonal basis. Data were taken from 11 472 balloon-borne ozonesondes launched at 60 stations from 1963 to 1980 and from over 160 000 observations made by the Global Atmospheric Sampling Program on 4417 commercial airliner flights from 1975 to 1979. Case study and statistical comparisons of results from these two data sets showed that they are compatible and can be combined. Several examples of analyses that can be made by using the tabulated data are given and discussed.					
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