

# **Distribution of the Daily foF2 About the Monthly Median**

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## CONTENTS

LIST OF FIGURES . . . . .	iv
LIST OF TABLES . . . . .	vi
ABSTRACT . . . . .	1
1. INTRODUCTION . . . . .	1
2. DESCRIPTION OF THE DATA . . . . .	3
3. RESULTS . . . . .	6
3.1 Diurnal, Seasonal, and Solar Trends . . . . .	6
3.2 Lower Decile, Upper Decile, and Standard Deviation Factors . . . . .	12
3.3 Tabulated Results . . . . .	19
4. REGRESSION . . . . .	31
5. SUMMARY . . . . .	37
6. REFERENCES . . . . .	40
APPENDIX A: PERCENT DEVIATION PLOTS FOR ALL STATIONS DURING QUIET MAGNETIC, AND LOW AND HIGH SOLAR PERIODS FOR WINTER, SPRING, SUMMER, AND FALL SEASONS. . . . .	41
APPENDIX B: LOWER DECILE, UPPER DECILE AND STANDARD DEVIATION FACTORS FOR ALL STATIONS FOR ACTIVE MAGNETIC PERIODS FOR LOW AND HIGH SOLAR PERIODS DURING SPRING AND FALL EQUINOX . . . . .	83
APPENDIX C: TABLES OF PERCENT DEVIATION AND UPPER AND LOWER DECILE FACTORS AT TEN DEGREE INCREMENTS IN MAGNETIC LATITUDE FOR ALL MONTHS . . . . .	125

## LIST OF FIGURES

		PAGE
Figure 1.	Diurnal variability during winter for quiet magnetic and low solar conditions at (a) Washington, (b) Canberra, (c) Maui and (d) Huancayo . . . . .	9
Figure 2.	Diurnal variability during summer for quiet magnetic and low solar conditions at (a) Washington, (b) Canberra, (c) Maui and (d) Huancayo . . . . .	10
Figure 3.	Diurnal variability during spring for quiet magnetic and low solar conditions at (a) Washington, (b) Canberra, (c) Maui and (d) Huancayo . . . . .	11
Figure 4.	Diurnal variability during winter for quiet magnetic and high solar conditions at (a) Washington, (b) Canberra, (c) Maui and (d) Huancayo . . . . .	13
Figure 5.	Diurnal variability during summer for quiet magnetic and high solar conditions at (a) Washington, (b) Canberra, (c) Maui and (d) Huancayo . . . . .	14
Figure 6.	Diurnal variability during spring for quiet magnetic and high solar conditions at (a) Washington, (b) Canberra, (c) Maui and (d) Huancayo . . . . .	15
Figure 7.	Characteristic curves of standard deviation factor (bold) and upper and lower decile for quiet magnetic and low solar conditions in winter at (a) Washington, (b) Canberra, (c) Maui and (d) Huancayo . . . . .	17
Figure 8.	Characteristic curves of standard deviation factor (bold) and upper and lower decile for active magnetic and high solar conditions in spring at (a) Leningrad, (b) Hobart, (c) Washington and (d) Canberra . . . . .	18

LIST OF FIGURES (cont.)

	PAGE
Figure 9.	Latitudinal variabilities for noon (bold) and midnight for quiet magnetic and low solar conditions during (a) winter, (b) spring, (c) summer and (d) fall . . . . . 28
Figure 10.	Latitudinal variabilities for noon (bold) and midnight for quiet magnetic and high solar conditions during (a) winter, (b) spring, (c) summer and (c) fall . . . . . 29
Figure 11.	Regression line with IG12 for quiet variabilities (indicated by a +) in April for noon at (a) Tomsk, (b) Boulder, (c) Maui, and (d) Brisbane. Active variabilities are indicated by a * (for AP range 16 to 19) and 0 (for AP > 19) . . . . . 38
Figure 12.	Regression line with IG12 for quiet variabilities (indicated by a +) in April for midnight at (a) Tomsk, (b) Boulder, (c) Maui, and (d) Brisbane. Active variabilities are indicated by a * (for AP range 16 to 19) and 0 (for AP > 19) . . . . . 39

## LIST OF TABLES

	PAGE
Table 1. Station Locations and Years of Available Data . . . . .	4
Table 2. Years of Data Included in each Solar Activity Range for Magnetically Quiet ( $AP \leq 15$ ), Medium ( $16 \leq AP \leq 19$ ), and Active ( $AP \geq 20$ ) Periods for each Month. Actual Year is Given with both AP and IG12 in Parenthesis . . . . .	7
Table 3. Percent Deviation and Upper and Lower Decile Factors for all Hours in each Ten Degree Magnetic Latitude Increment for both Low and High Solar Periods . . . . .	20
Table 4. Slopes of the Regression Lines with IG12 during Quiet Magnetic Periods . . . . .	32

DISTRIBUTION OF THE DAILY foF2  
ABOUT THE MONTHLY MEDIAN

Mary W. Sowers<sup>1</sup> and Margo PoKempner<sup>2</sup>

Data from 21 ionospheric sounding stations in the northern and southern hemispheres were used to characterize the day to day variation in the critical frequency of the F2 layer of the ionosphere. Variability in the critical frequencies are analyzed monthly and diurnally for quiet magnetic conditions during both low and high solar periods. In addition, variations in the F2 layer critical frequency are presented for active magnetic conditions during equinox periods. Tables of variabilities for each ten degree increment in magnetic latitude are also provided in this report. The dependence of variations in the critical frequency with the solar cycle index IG12 is also discussed.

Key Words: variability, F2 layer, critical frequency, magnetic latitude

1. INTRODUCTION

The F2 region is the most important part of the ionosphere for propagation of high frequency (HF) signals. The most important F2 layer characteristic is the critical frequency (foF2). Median values of this characteristic in part determine the F2 maximum usable frequency (MUF) for specific distances such that the probability of HF propagation for this frequency is 50%. Historically, the frequency that would have a 90% probability of propagating (FOT) has been assumed to be .85 of the median value of the MUF and the frequency having a 10% probability (HPF) has been assumed to be 1.15 of the median value.

The earliest methods of estimating the performance of

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ionospheric telecommunication circuits relied on manually constructed contour charts and nomograms to predict the relevant median ionospheric characteristics. In the early 60's, the development of numerical coefficients representing spatial and temporal variations in the ionosphere, and the availability of electronic computers made it possible to achieve significantly greater accuracy in the predictions of circuit performance.

Concurrent with the development of a computer model to predict the F2 layer MUF, R.M. Davis and N.L. Groome<sup>3</sup> examined the variability in the daily MUF's as a function of all relevant space and time parameters. The median, upper and lower decile F2 layer MUF's were computed from the measured foF2 and M(3000)F2 (see Piggott, 1972, p.15) for 13 U.S. and U.S.-supported vertical incidence (v.i.) ionosphere stations. A series of local hours in each month, for three years representing low (1954 or 55), medium (1961 or 62), and high (1957 or 58) level of solar activity were used. As ionospheric measurements are now available for at least two additional solar cycles, it seems appropriate to re-examine the seasonal, diurnal and latitudinal dependency of the variability of the daily foF2.

Although Davis and Groome determined the daily variability of the MUF(3000)F2, Rush et. al. (1974) concluded that the observed daily variability of foF2 is more important in terms of potential system degradation than the daily variability of the height of the maximum (hmF2). Therefore, it was considered efficacious to analyze only the daily variability of the observed foF2.

In the next section, the selection of the stations and statistical parameters used in the analysis are described. In the third section, the observed diurnal, seasonal, solar, magnetic and latitudinal trends of the statistical parameters are presented. In Section 4, the relationships between foF2 variability and solar activity are further discussed. In the last section, the general

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<sup>3</sup> Davis, R.M., and Groome, N.L. (1964), Variations of the 3000-Km MUF in time and space (U.S. Department of Commerce, National Bureau of Standards, Boulder, CO, Report 8498 November, 1964)



trends are summarized and plans for future analyses are presented.

## 2. DESCRIPTION OF THE DATA

The World Data Center A for Solar-Terrestrial Physics has acquired ionospheric data in digital format from ionospheric observing stations throughout the world. All ionospheric data measured at U.S. and U.S.-supported stations have been available in digital format since the International Geophysical Year (IGY). More recently, many foreign administrations and organizations have converted the tabulated ionospheric data from their network of v.i. stations to digital format. Some of the digital ionospheric data from non-U.S. v.i. stations have been made available to World Data Center A. In many cases, though, the data may represent only one solar cycle, usually solar cycle 21 (1964-76), or only a few years of this cycle. The main criteria for the selection of data for the analysis were the total number of years, and more important, the number of solar cycles for which digital data were available at World Data Center A for a given station. This eliminated the use of ionospheric data from many stations.

Initially, the analysis included ionospheric data for six U.S. or U.S.-supported v.i. stations and seven Australian v.i. stations. Until recently, none of the ionospheric data for the extensive Soviet network of v.i. ionosphere stations had been digitized. These data have been provided to World Data Center A and the ionospheric data for eight Soviet v.i. stations have been included in this analysis. The daily variability of the foF2 has been determined for each hour of every month for all available years for the 20 v.i. stations listed in Table 1.

In this report, the diurnal variability of the critical frequency of the F2 layer (foF2) is described for a given month for v.i. stations at high, mid, and low-latitude ranges. The stations used to represent these latitude zones are listed in Table 1, along with their geographic latitude and longitude as well as magnetic latitude (ML).

Table 1 also includes a list of the years of available data from each station. As can be seen, data covering two to three

Table 1. Station Locations and Years of Available Data

LATITUDE ZONE	STATION	GEOGRAPHIC LATITUDE & LONGITUDE	MAGNETIC LATITUDE	YEARS OF AVAILABLE DATA
HIGH	TOMSK, USSR	56.5 84.9	60.4	(31) 57-88
	LENINGRAD, USSR	59.9 30.4	58.4	(31) 57-87
	SVERDLOVSK, USSR	56.7 61.1	58.0	(31) 57-88
	HOBART, TASMANIA	-42.9 147.3	-58.2	(30) 57-59,61-88
MIDDLE	MOSCOW, USSR	55.5 37.3	54.4	(31) 57-87
	*WASHINGTON DC, USA	38.7 282.9	53.2	(26) 60,63-67
	WALLOPS IS VA, USA	37.8 284.5	52.0	(26) 68-87
	BOULDER, COLO. USA	40.0 254.7	50.7	(26) 60,62-86
	KHABAROVSK, USSR	48.5 135.1	45.1	(28) 59-87
	ALMA ATA, USSR	43.2 76.9	43.1	(31) 57-88
	TASHKENT, USSR	41.3 60.0	40.6	(27) 61-88
	ASHKABAD, USSR	39.9 58.3	36.2	(28) 57-85
	MUNDARING, W. AUSTRALIA	-32.0 116.3	-48.9	(30) 59-88
	CANBERRA, AUSTRALIA	-35.3 149.0	-48.4	(32) 57-88
	BRISBANE, AUSTRALIA	-27.5 152.9	-38.3	(30) 57-86
	NORFOLK ISLAND, AUS.	-29.0 168.0	-37.1	(25) 64-88
	TOWNSVILLE, AUSTRALIA	-19.6 146.8	-29.6	(31) 58-88
LOW	MAUI HAWAII, USA	20.8 203.5	21.6	(24) 60,63-64,66,68-87
	CONCEPCION, CHILE	-36.6 287.0	-20.1	(16) 60,63-64,66-67,69-79
	VANIMO, NEW GUINEA	-2.7 141.3	-11.3	(25) 64-88
EQUATORIAL	HUANCAYO, PERU	-12.0 284.7	0.5	(24),58,60,63-84

\* Washington and Wallops are used as one station and are referred to as Washington throughout the report.

solar cycles were available for most of the stations. Studies of foF2 variability showed that the solar cycle dependency did not become statistically reliable unless at least two solar cycles (22 years) were included in the analysis.

Data from stations in North America, South America, Asia, and Australia were utilized, giving a wide range of geographic and magnetic latitudes in both the northern and southern hemispheres. The stations were chosen to isolate ionospheric variability effects that exhibit geographic as well as magnetic dependencies. Comparisons between the foF2 variabilities for stations at different geographic latitudes and longitudes but similar magnetic latitudes can highlight the dependency of these variabilities on geographic and magnetic latitude. Similarly, stations in the southern hemisphere can be compared to their northern hemisphere counterparts at the same magnetic latitudes, to determine if reciprocity with the southern hemisphere exists.

Longitudinal differences in stations may affect variability in foF2 but are not thoroughly explored in this report because of the limited longitudinal distribution of the available v.i. stations. Analysis of the variabilities indicated that they are more dependent upon the latitude range than longitudinal position.

The foF2 data from each station were analyzed for each month to determine seasonal effects. This report presents the diurnal variabilities for winter, summer and both equinox seasons. The diurnal variation in foF2 is summarized in the following sections.

Most of the discussions and analysis in this report are limited to quiet magnetic periods for both low and high solar activity years. The ionospheric-derived solar cycle index termed IG12 is used to characterize the solar cycle dependency of variability in foF2. Magnetically quiet periods are determined from the monthly average planetary index for magnetic activity, AP. Throughout this report, low solar activity periods refer to occasions where IG12 is less than 41 and high solar activity refers to periods where IG12 is greater than 109. Quiet magnetic periods refer to occasions where monthly AP is less than or equal to 15.

The percent standard deviation is calculated for all 24 hours

for each month for a given station as follows:

$$\% \text{ std dev} = (\text{std dev} / \text{median foF2}) \times 100.$$

The standard deviation is calculated around the monthly median for each hour in which 10 or more daily values are available. The median foF2 is the middle value of all ordered foF2 values for a given hour if the number of observations is odd, and the average of the two middle values if there is an even number of observations. All values of foF2 were used to determine the median with the exception of those values qualified by a D. Qualification by a D indicates that the actual value of foF2 is greater than the recorded value. Because of the uncertainty of the measurement, these values were excluded. The Russian data were checked separately for the presence of D qualifiers from paper records at the World Data Center A.

Upper and lower decile factors (see Section 3.2) are also tabulated for each hour of a given month for all stations. Percent standard deviation has been used in the analysis of variation in foF2 in order to gain insight into the relative changes in the ionospheric variability. This is accomplished without having to account for the differences in the magnitude of the ionization resulting from solar, diurnal or other changes. Percent standard deviation is called percent deviation or variability throughout this report.

### 3. RESULTS

#### 3.1 Diurnal, Seasonal, and Solar Trends

During the period under consideration in this study--1957 to 1988--there were three solar maxima (1958, 1969 and 1980) and three minima (1964, 1976 and 85). There were 10 years of low solar activity ( $IG12 < 41$ ) and 14 to 16 years of high solar activity ( $IG12 > 109$ ) recorded during these years. Table 2 shows the years included in each month for low, mid and high solar ranges as well as all magnetic periods.

To characterize the solar activity effects on the foF2 monthly variability, all variabilities were averaged on an hourly basis for

TABLE 2. Years of Data Included in Each Solar Activity Range For Magnetically Quiet ( $AP \leq 15$ ), Medium ( $16 \leq AP \leq 19$ ) and Active ( $AP \geq 20$ ) Periods for Each Month. Actual Year is Given with Both AP and IG12 in Parenthesis

	January	February	March	April	May	June	July	August	September	October	November	December	
Low Solar	63(10,27)	63(9,26)	63,(8,25)	63(10,24)	62(7,40)	62(9,40)	62(11,40)	62(15,37)	64(11,11)	63(15,19)	62(13,30)	62(13,29)	
	64(12,15)	64(12,13)	64(13,12)	64(13,12)	63(11,23)	63(11,22)	63(12,21)	63(13,20)	65(10,20)	64(10,11)	63(12,18)	63(11,16)	
	65(6,13)	65(9,14)	65(8,15)	65(8,16)	64(10,10)	64(9,10)	64(9,10)	64(8,11)	73(14,32)	65(7,21)	64(7,12)	64(5,12)	
	66(7,28)	66(8,31)	66(13,34)	66(7,37)	65(6,17)	65(10,17)	65(8,18)	65(9,19)	75(10,12)	75(12,12)	65(6,23)	65(7,25)	
	74(15,28)	77(11,19)	77(11,21)	86(8,8)	66(9,40)	75(11,15)	73(12,38)	73(12,35)	76(13,12)	76(12,13)	73(12,30)	73(11,28)	
	76(13,12)	85(15,13)	85(11,11)	87(7,15)	75(13,16)	76(10,8)	75(12,13)	75(10,12)	85(13,9)	85(14,26)	76(9,13)	74(15,20)	
	77(10,17)	87(10,12)	86(13,8)	*	76(14,9)	77(8,29)	76(9,9)	76(9,10)	*	86(11,8)	85(15,8)	75(12,13)	
	86(14,15)	*	87(10,14)	75(16,18)	77(11,26)	85(11,9)	77(14,34)	77(13,39)	62(19,35)	*	86(13,9)	76(10,15)	
	87(8,8)	74(16,28)	*	76(17,9)	85(9,9)	86(8,9)	85(14,9)	85(13,9)	86(17,8)	73(18,31)	87(13,37)	85(13,9)	
	*	75(19,18)	*	77(16,23)	86(12,9)	87(7,19)	86(8,9)	86(12,8)	87(19,29)	87(16,33)	*	86(8,10)	
	75(16,19)	76(16,11)	74(23,26)	*	87(8,17)	*	87(11,22)	87(14,25)	*	*	74(18,22)	*	
	85(16,15)	*	75(20,18)	74(21,26)	*	74(17,27)	*	*	63(28,19)	62(20,32)	75(18,13)	84(18,18)	
	*	86(27,8)	76(22,10)	85(21,9)	74(18,26)	*	84(16,39)	74(19,26)	74(23,25)	74(26,23)	*	*	
								84(16,36)	84(24,31)	84(23,26)	84(21,21)		
								74(24,27)	*				
Middle Solar	61(12,88)	62(10,46)	61(14,80)	61(14,73)	61(13,67)	61(14,61)	66(9,50)	61(11,54)	61(13,54)	66(10,70)	61(10,52)	61(12,50)	
	62(7,49)	67(11,86)	62(8,43)	62(14,41)	68(13,109)	66(6,44)	67(8,105)	66(11,56)	68(14,108)	67(10,107)	66(9,75)	66(11,79)	
	67(11,82)	71(12,92)	67(7,90)	67(9,95)	71(13,77)	67(12,103)	68(10,109)	67(9,108)	71(13,69)	71(12,70)	67(10,106)	67(14,107)	
	68(11,109)	72(10,75)	68(13,109)	68(13,109)	72(10,82)	71(9,74)	71(8,71)	68(12,108)	72(13,73)	72(12,69)	71(11,71)	70(9,101)	
	71(12,97)	88(15,55)	71(11,88)	71(15,82)	88(12,78)	72(14,81)	72(8,79)	71(9,69)	83(14,67)	77(13,51)	72(14,66)	71(10,71)	
	72(13,73)	*	72(12,78)	72(11,81)	*	84(15,43)	78(13,107)	88(10,102)	88(12,109)	*	77(10,57)	72(10,63)	
	78(15,69)	61(16,85)	88(14,62)	*	73(17,43)	88(11,86)	83(12,72)	*	*	61(16,53)	*	77(10,64)	
	84(13,61)	68(16,109)	*	88(16,70)	84(17,46)	*	88(10,94)	83(16,68)	67(16,104)	68(16,109)	*	83(15,64)	
	88(13,48)	78(16,75)	78(16,80)	*	*	68(17,107)	*	*	77(16,44)	82(18,106)	60(32,98)	87(9,42)	
	*	84(17,57)	*	73(30,47)	67(25,99)	73(17,40)	*	72(24,77)	*	83(17,67)	82(21,103)	*	
	73(16,59)	*	73(25,50)	78(23,86)	78(25,93)	83(16,78)	61(28,57)		60(20,108)	*	83(21,66)	*	
	83(16,99)	73(20,54)	83(23,94)	83(24,89)	83(22,84)	*			66(21,63)	60(36,104)		60(21,93)	
	*	83(27,97)	84(25,50)	84(25,50)		78(20,100)						82(21,100)	
	High Solar	58(15,174)	60(14,134)	80(8,160)	80(11,159)	57(11,167)	59(15,156)	69(8,112)	57(14,170)	69(15,114)	57(14,172)	58(8,175)	58(15,174)
		59(14,174)	69(15,112)	*	69(14,112)	70(9,120)	69(9,111)	79(12,154)	69(8,113)	70(11,114)	69(9,114)	69(10,115)	68(9,111)
60(15,137)		70(7,118)	60(18,131)	*	79(14,149)	70(10,121)	80(11,155)	70(13,117)	79(14,155)	70(12,110)	70(12,110)	69(7,117)	
69(8,111)		79(15,138)	69(17,113)	59(17,165)	80(10,157)	79(12,154)	*	80(10,155)	80(8,154)	78(12,124)	78(15,128)	78(13,131)	
70(7,118)		80(11,159)	70(17,118)	70(16,119)	*	80(13,156)	57(16,169)	81(15,154)	81(12,153)	79(12,155)	79(10,156)	79(9,158)	
80(10,159)		81(14,150)	79(19,141)	*	58(17,178)	81(12,154)	70(19,119)	*	*	80(14,154)	80(13,152)	80(13,152)	
81(9,151)		*	81(18,151)	57(21,164)	59(19,160)	*	81(19,154)	58(18,178)	78(18,119)	88(13,116)	81(15,149)	81(10,145)	
82(12,143)		57(17,161)	82(18,136)	58(20,178)	69(17,111)	*	*	78(17,112)	*	*	88(12,122)	88(13,128)	
*		*	*	60(42,130)	82(17,128)	57(22,168)	58(25,179)	79(18,155)	57(49,171)	58(16,176)	*	*	
57(17,159)		58(27,174)	57(26,162)	79(25,145)	*	58(24,179)	59(32,154)	*	58(20,178)	59(16,147)	57(18,174)	57(18,175)	
79(16,134)		59(24,172)	58(26,176)	81(23,152)	60(24,128)	60(20,124)	60(20,119)	59(23,152)	59(28,150)	*	68(17,110)	59(19,140)	
*		82(33,140)	59(24,169)	82(22,132)	81(20,154)	82(22,125)	82(30,122)	60(20,113)	82(36,112)	81(19,151)	*	*	
								82(31,118)			59(22,143)		

all low solar activity years and for all high solar activity years. Diurnal plots of the winter, summer, and spring foF2 variabilities are given in Figures 1 to 3 for stations representing mid, low and equatorial latitudes. All percent deviations for low solar and quiet magnetic periods are included in these figures. The percent deviations for each hour are averaged and an eight point smoothed curve (called the characteristic curve) is drawn through the averages. This characteristic curve allows us to discern large-scale effects in the percent deviation while minimizing exaggerations in the curve due to extremes in variability that last only a few hours such as those frequently occurring before sunrise.

A distinct diurnal pattern in the variability is seen in Figure 1 at Washington and Canberra. The variabilities are greatest during the night hours when the lowest ionization levels are observed. The lowest variabilities usually occur between 0800 and 1600 LT. Maui, a low-latitude station, exhibits generally higher variabilities with the lowest values occurring directly after sunrise. Similar trends are noted at other mid and low-latitude stations (Appendix A).

Equatorial region variabilities are represented by Huancayo in Figure 1. At Huancayo the foF2 variability decreases dramatically directly after sunrise with little day to day variation in foF2 during the remainder of the day. Because of this steep, step-like decrease in variability, an eight point smoothed curve for this station seemed inappropriate. Therefore, the actual averaged values for each hour are used to characterize the variability at this station.

In contrast to winter, summer variabilities during low solar periods are generally lower, as shown in Figure 2. The mid-latitude stations show particularly low variabilities with less extreme diurnal ranges in summer than winter. Maui has 4 to 6 percent lower variabilities from approximately 11-1800 LT during the summer. The equatorial region variabilities at Huancayo, also given in Figure 2, show similar trends to winter variabilities with somewhat higher daylight variabilities. Huancayo is an equatorial station magnetically but is geographically located at 12 degrees

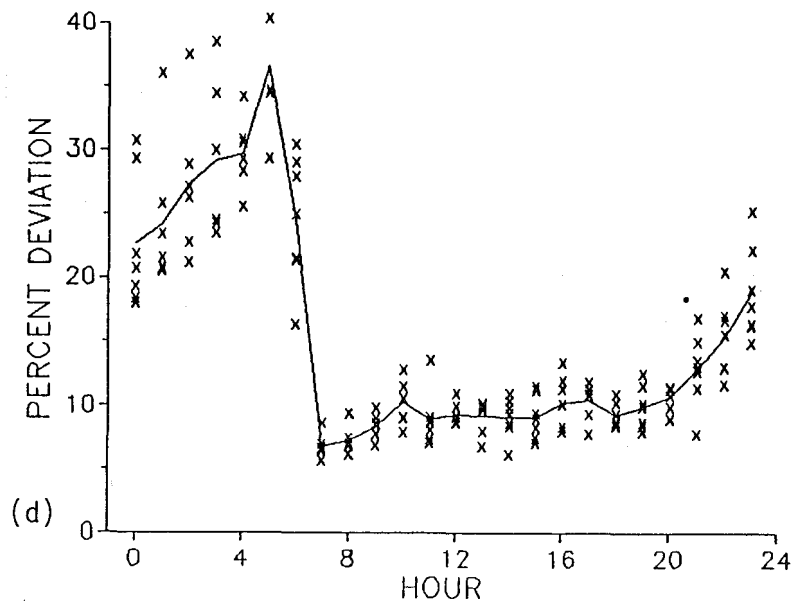
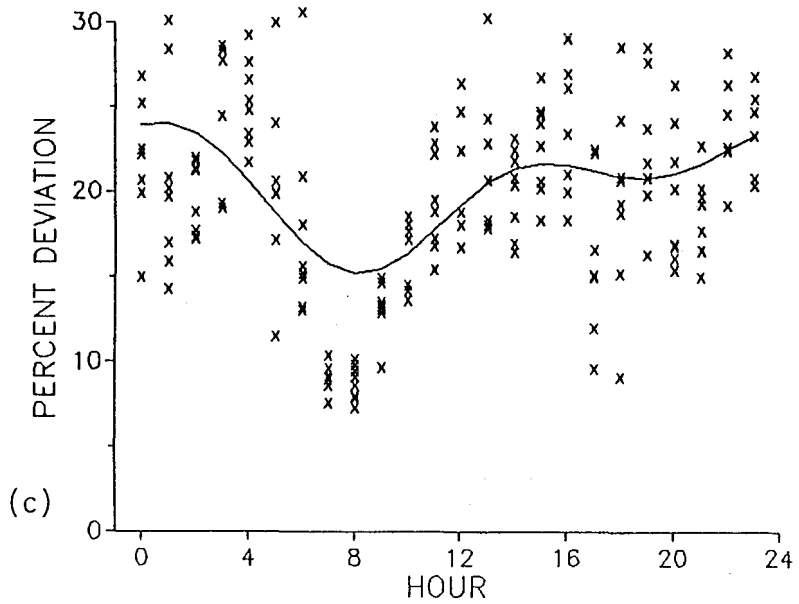
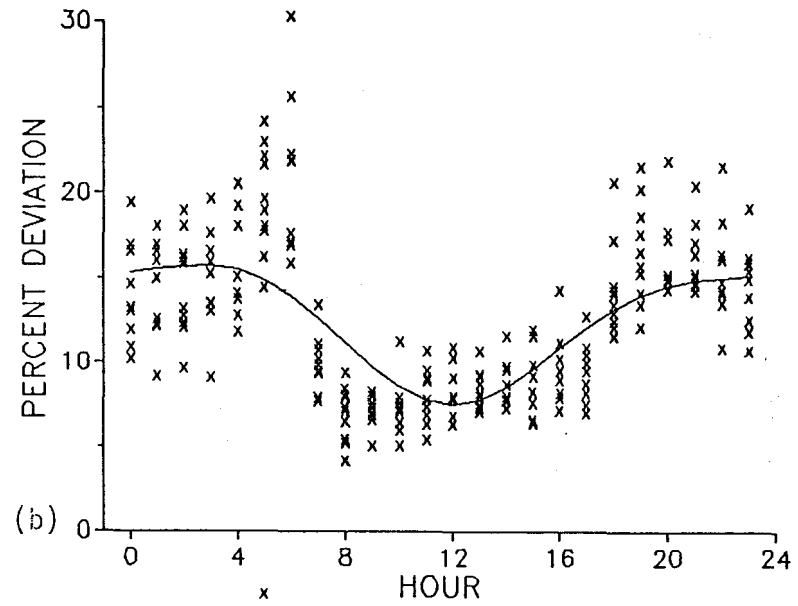
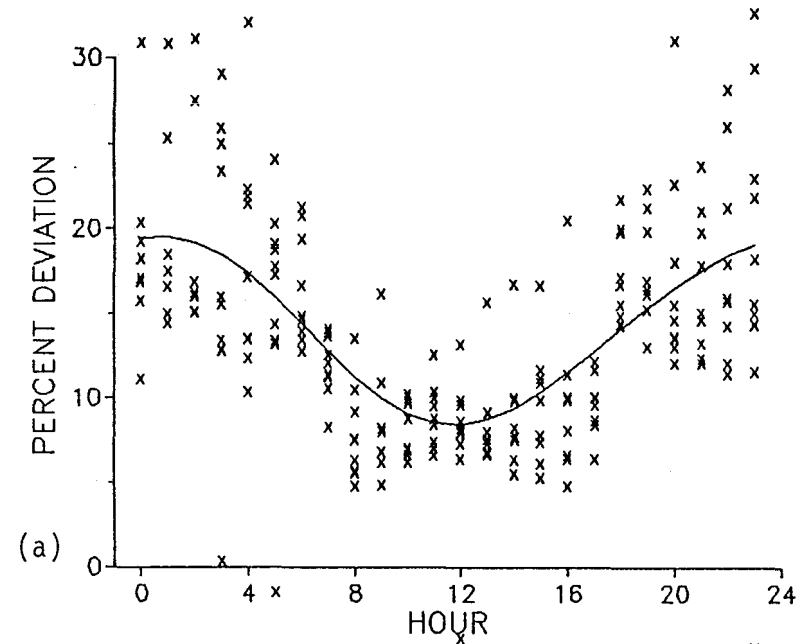


FIGURE 1. Diurnal variability during winter for quiet magnetic and low solar conditions at (a) Washington, (b) Canberra, (c) Maui and (d) Huancayo.

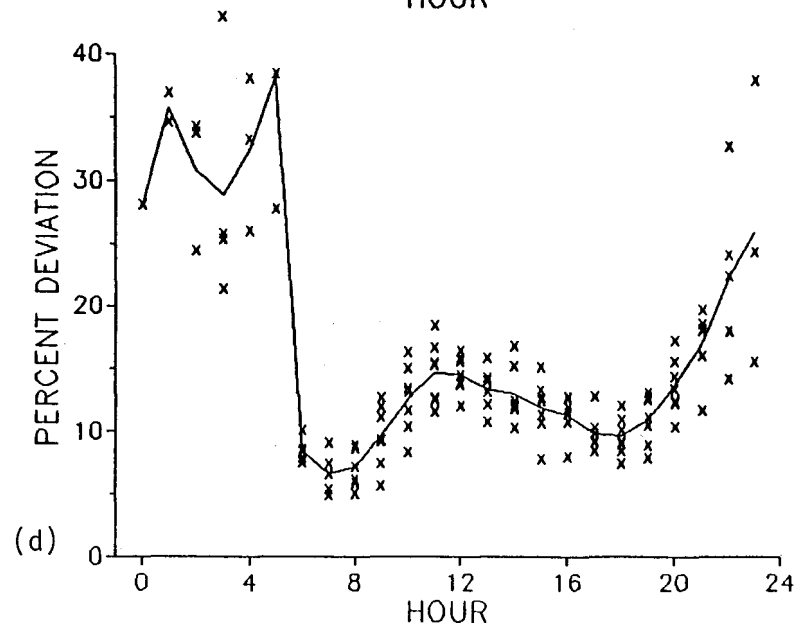
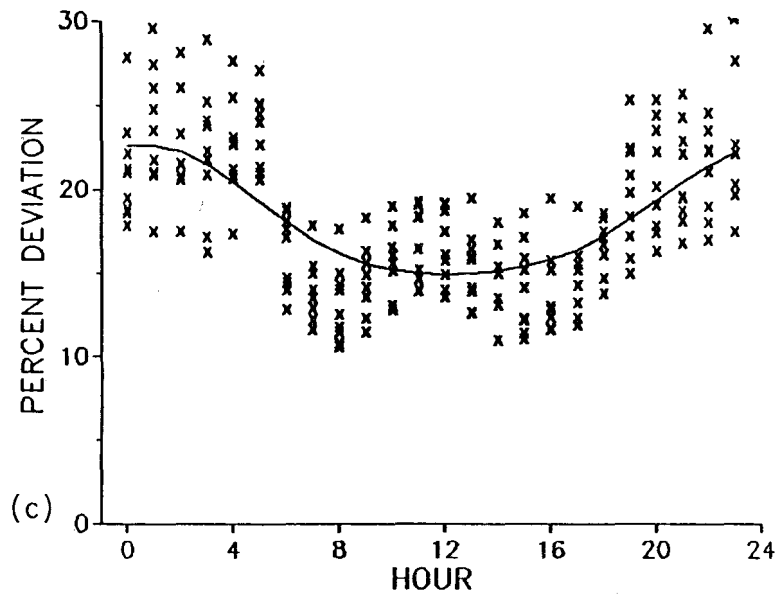
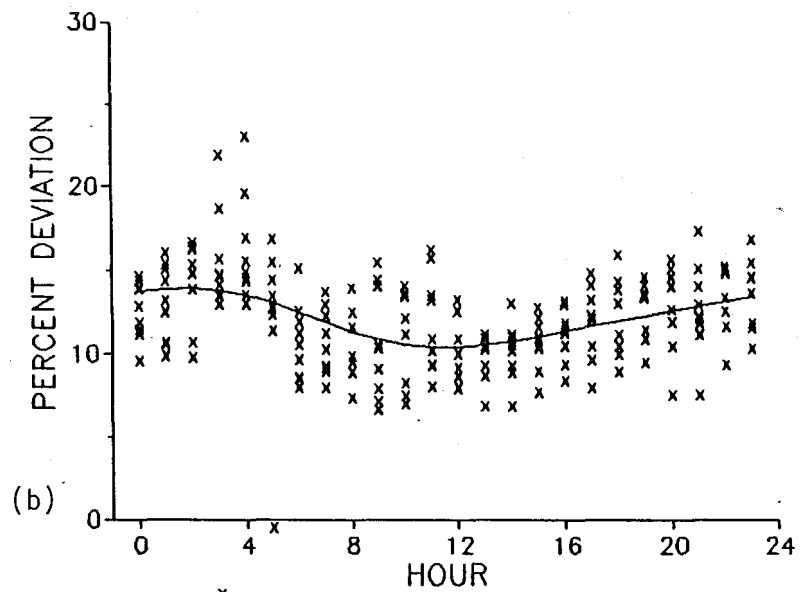
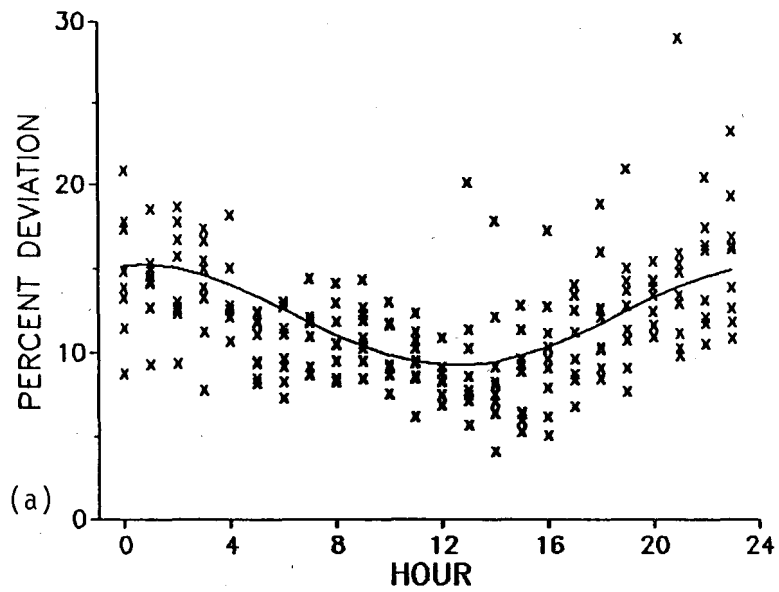


FIGURE 2. Diurnal variability during summer for quiet magnetic and low solar conditions at (a) Washington, (b) Canberra, (c) Maui and (d) Huancayo



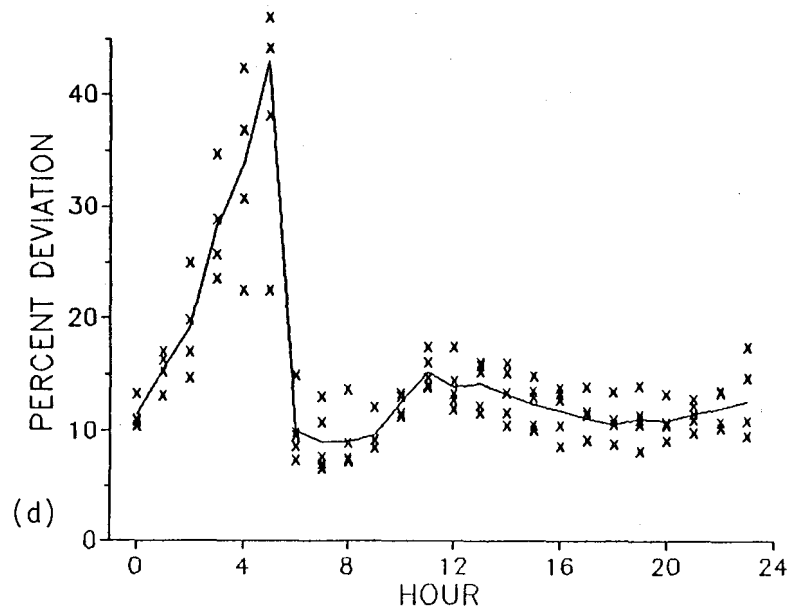
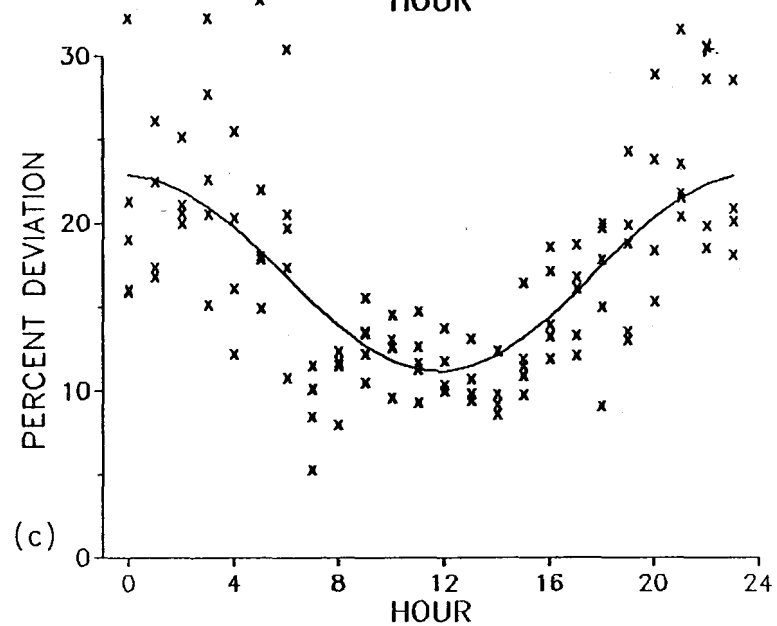
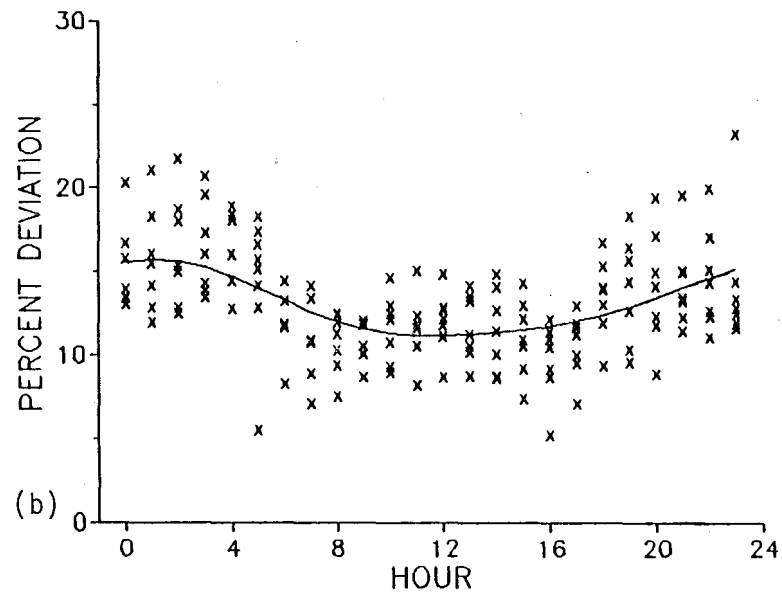
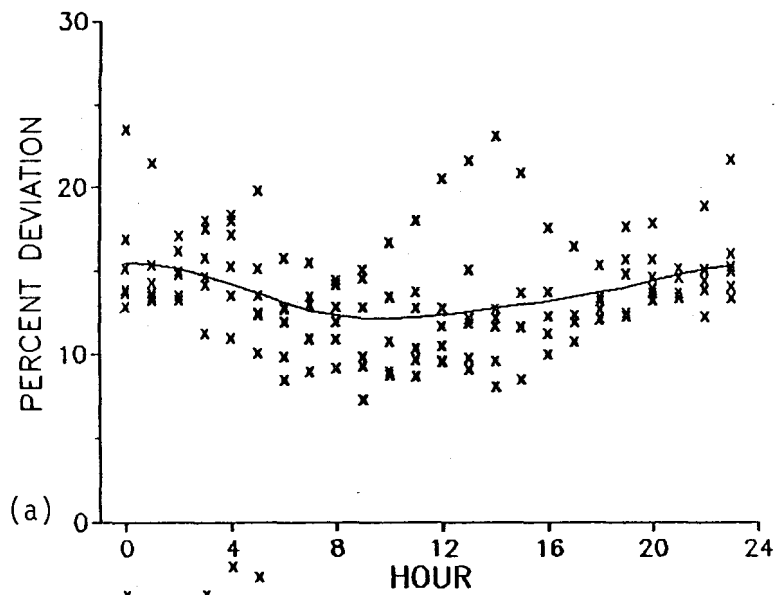


FIGURE 3. Diurnal variability during spring for quiet magnetic and low solar conditions at (a) Washington, (b) Canberra, (c) Maui and (d) Huancayo.

south and may therefore exhibit slight seasonal variations with geographic latitude.

During equinox periods, the mid-latitude stations have almost negligible diurnal spread in variability as shown in Figure 3. Similar to the summer period, the variabilities for mid-latitude stations range from 12 to 16 percent throughout the day. Maui has a more extreme diurnal range in variability than the mid-latitude stations. The lowest daytime variabilities are observed at Maui during equinox and low solar years. Huancayo has equinox variabilities that are quite similar to the winter patterns exhibited in Figure 1.

During low solar periods, the variabilities for mid and low-latitudes are generally inversely related to median foF2. During the day when critical frequencies increase, variabilities are the lowest. Likewise at night, when variabilities are highest the foF2 is also the lowest. In summer, less diurnal decrease in foF2 also correlates with little diurnal change in the variability.

Variabilities for high solar periods are given in Figures 4, 5, and 6 for winter, summer and spring. Again, Washington and Canberra represent the mid-latitude ranges, Maui the low-latitude, and Huancayo the equatorial latitudes.

In general, variabilities during periods of high solar activity are lower than those shown for periods of low solar activity. In contrast to low solar periods, the inverse relationship between the magnitude of the variability and the median foF2 is less obvious during the spring and summer at mid-latitude stations. During the day, when foF2 is higher, variability is also higher. Maui has significantly lower variabilities for all hours during the summer for high solar periods and an uncharacteristic flat diurnal curve. At Huancayo, variabilities are generally lower during high solar periods with a diurnal pattern similar to those noticed during low solar periods.

### 3.2 Lower Decile, Upper Decile and Standard Deviation

Since the lower bound of the foF2 will in part determine the frequency likely to propagate for 90 percent of the transmission

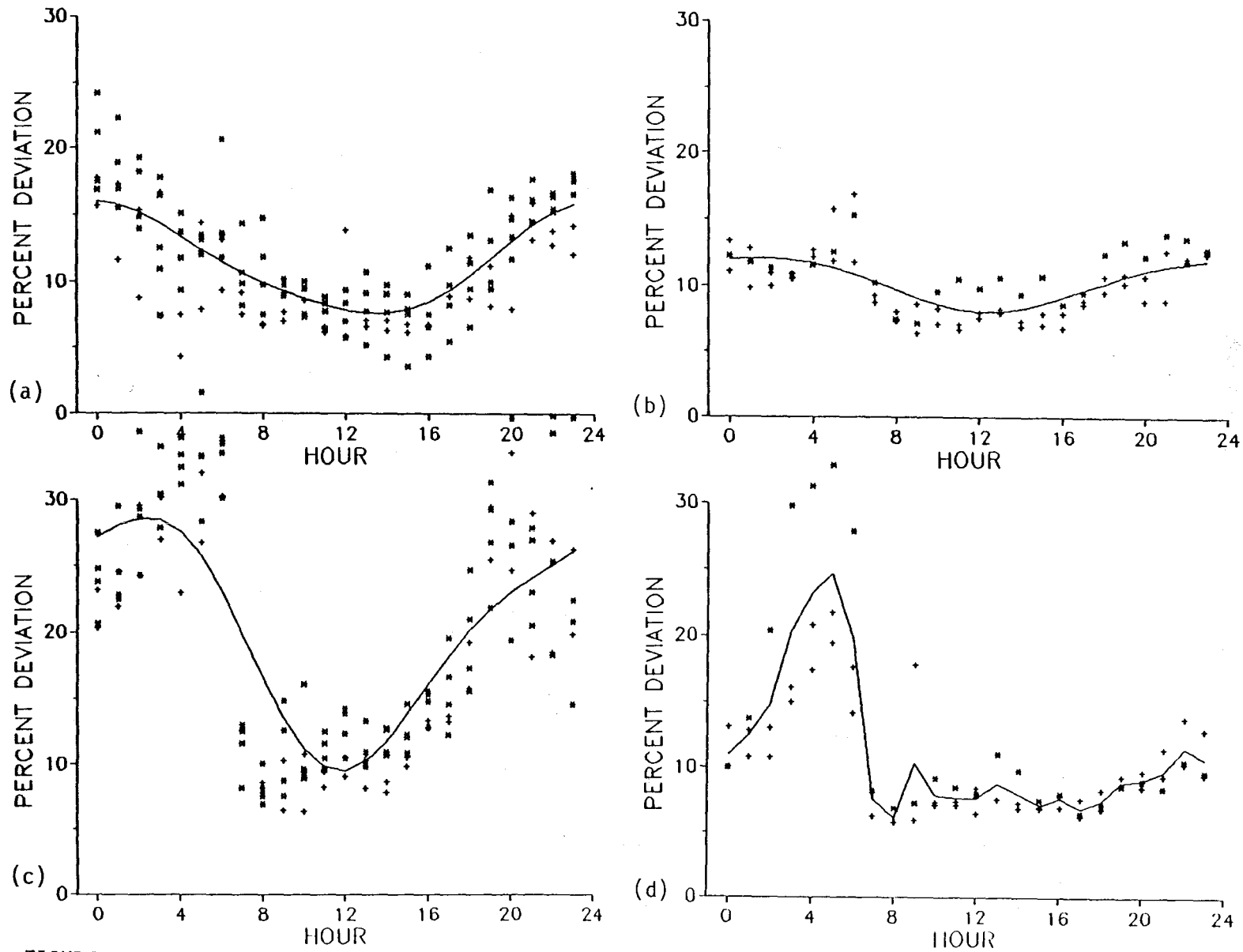


FIGURE 4. Diurnal variability during winter for quiet magnetic and high solar conditions at (a) Washington, (b) Canberra, (c) Maui, and (d) Huancayo.

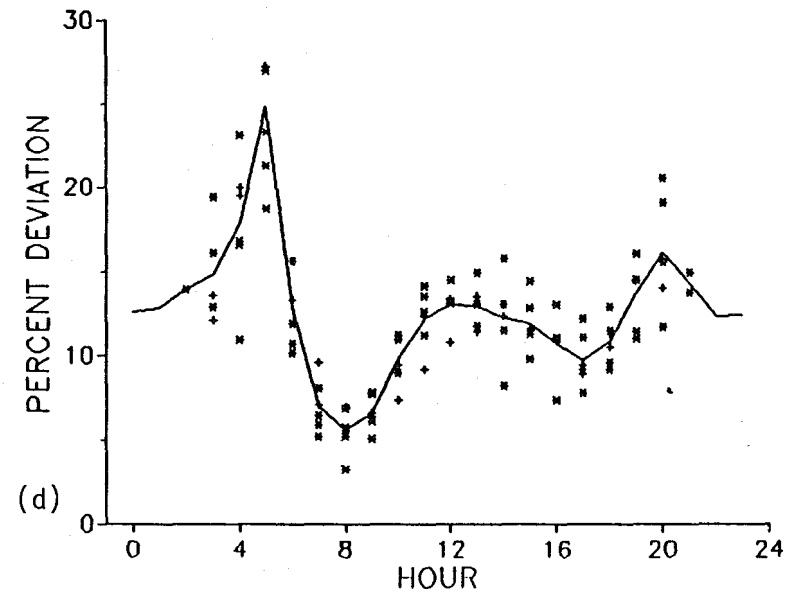
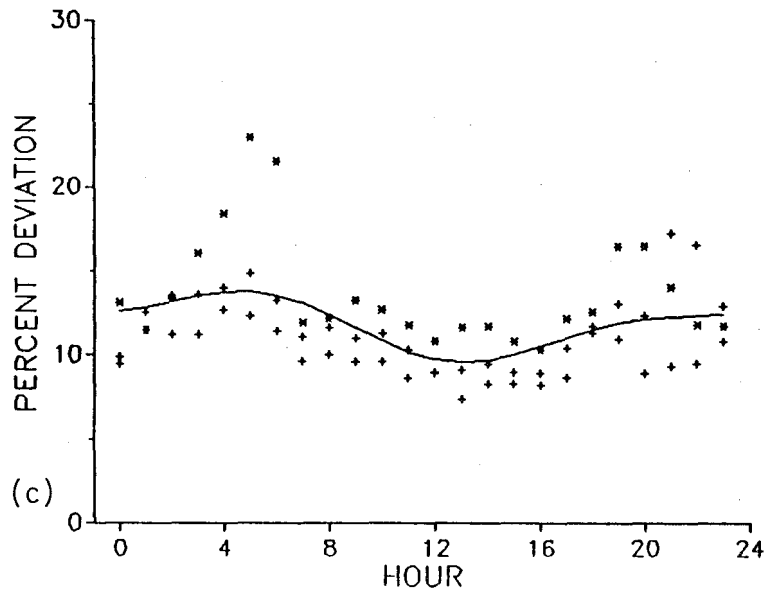
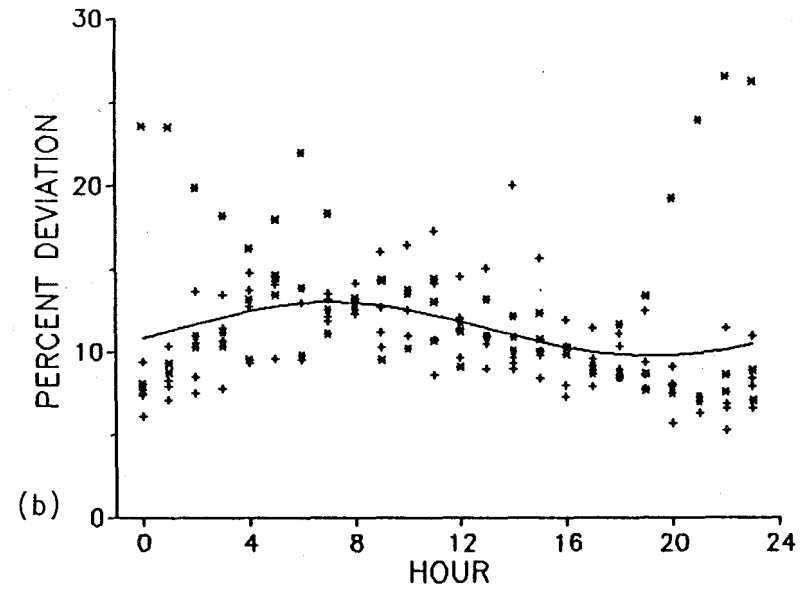
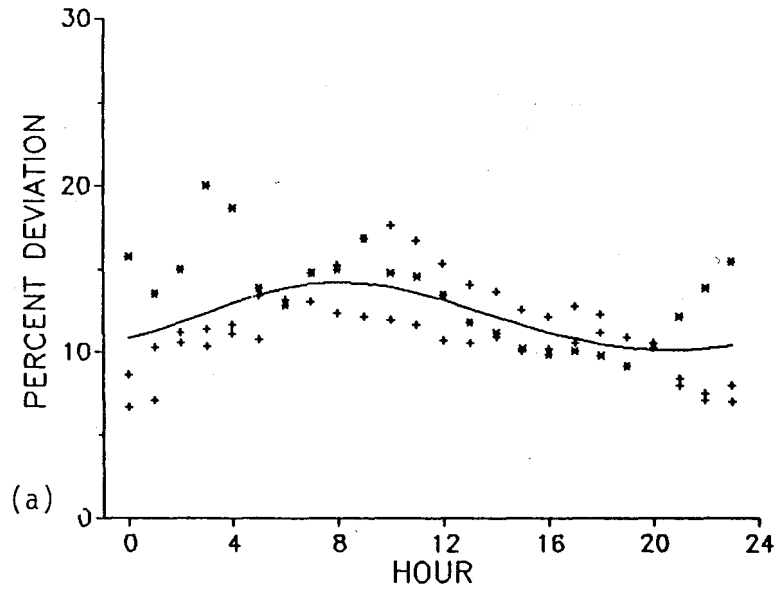


FIGURE 5. Diurnal variability during summer for quiet magnetic and high solar conditions at (a) Washington, (b) Canberra, (c) Maui and (d) Huancayo.

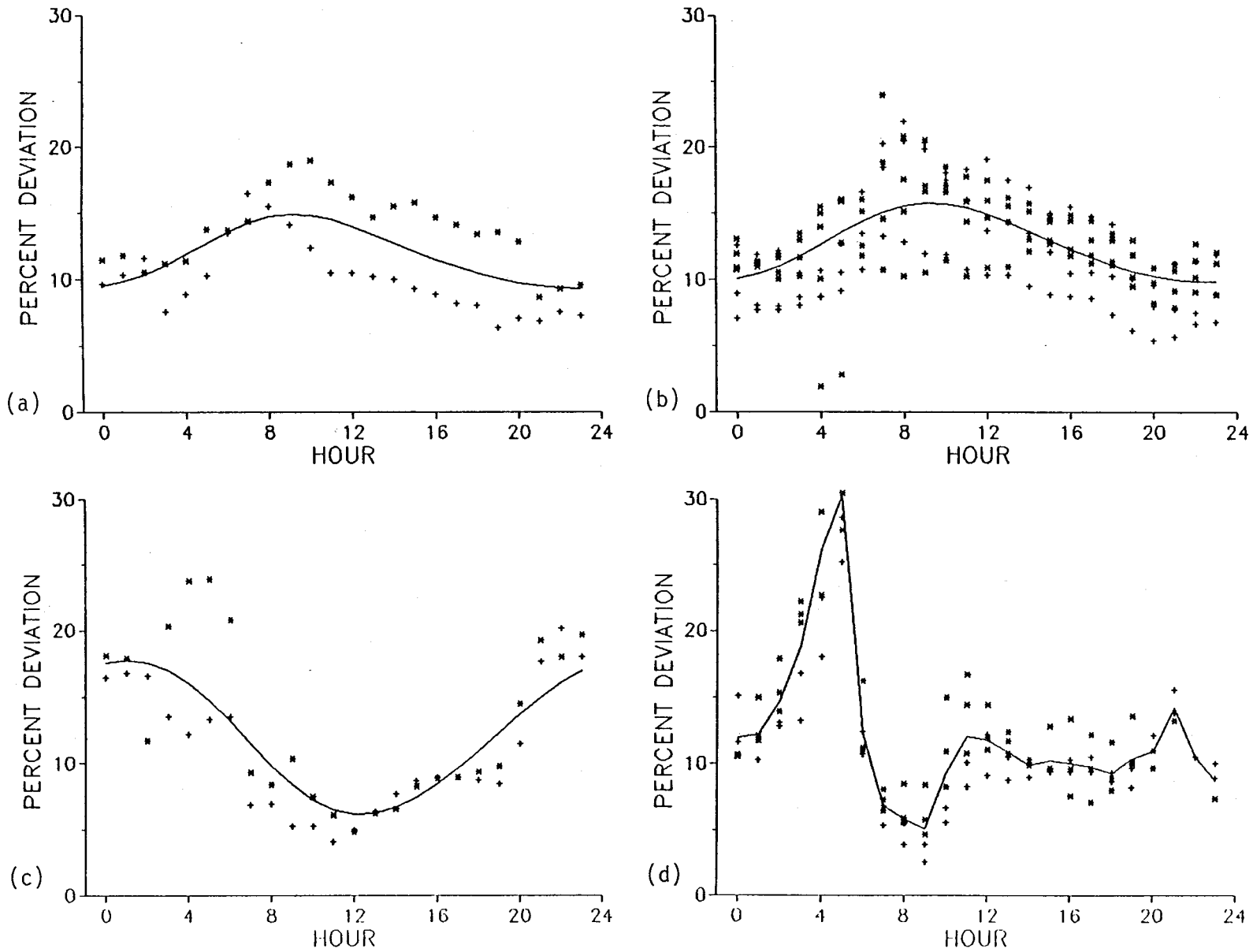


FIGURE 6. Diurnal variability during spring for quiet magnetic and high solar conditions at (a) Washington, (b) Canberra, (c) Maui and (d) Huancayo

period--as will the upper bound determine the 10 percent duration--the upper and lower decile factors were also analyzed to characterize the variability in foF2. The decile factor is the number by which the median is multiplied to obtain the actual 10 and 90 percent deciles for each hour. As with percent deviation, the decile factors for each hour in a given month were averaged, then smoothed to obtain the characteristic diurnal curve for both high and low solar ranges.

Plots of the characteristic curves of upper and lower decile factors are given in Figure 7 for low solar and quiet magnetic conditions during winter at Washington, Canberra, Maui, and Huancayo. Also included in this figure are both the upper and lower standard deviation factors (number by which the median is multiplied to obtain the actual decile value). Figure 7 shows that the differences between the lower decile factors and the lower bound of standard deviation is negligible. Large deviations, however, can be seen between the upper decile factor and the upper bound of standard deviation.

Magnetic activity may also affect the variability in foF2. A'lpert (1973) has shown that during magnetic storms, foF2 tends to decrease at mid and high-latitudes if the storm commencement is in the dark hours. Conversely, a positive storm (increase in foF2) is expected if the storm commences between 0800 and 1300 LT. Initially, the foF2 increases relative to the median for 2 to 3 hours during the onset, then decreases below the median for a period which may last as long as 2 to 3 days. Thus the negative portion (or decreased foF2 phase) of the storm will last longer when storm activity continues for more than a few hours. For this reason, the lower decile factor may become depressed as a result of prolonged magnetic storms.

Since most magnetic activity occurs during the equinox, only these periods have a sufficiently large number of high AP's (AP > 19) to study changes in variability with magnetic activity. Figure 8 shows the characteristic curves for high magnetic activity and high solar periods during the spring equinox at Leningrad, Hobart, Washington and Canberra. These curves show that significant

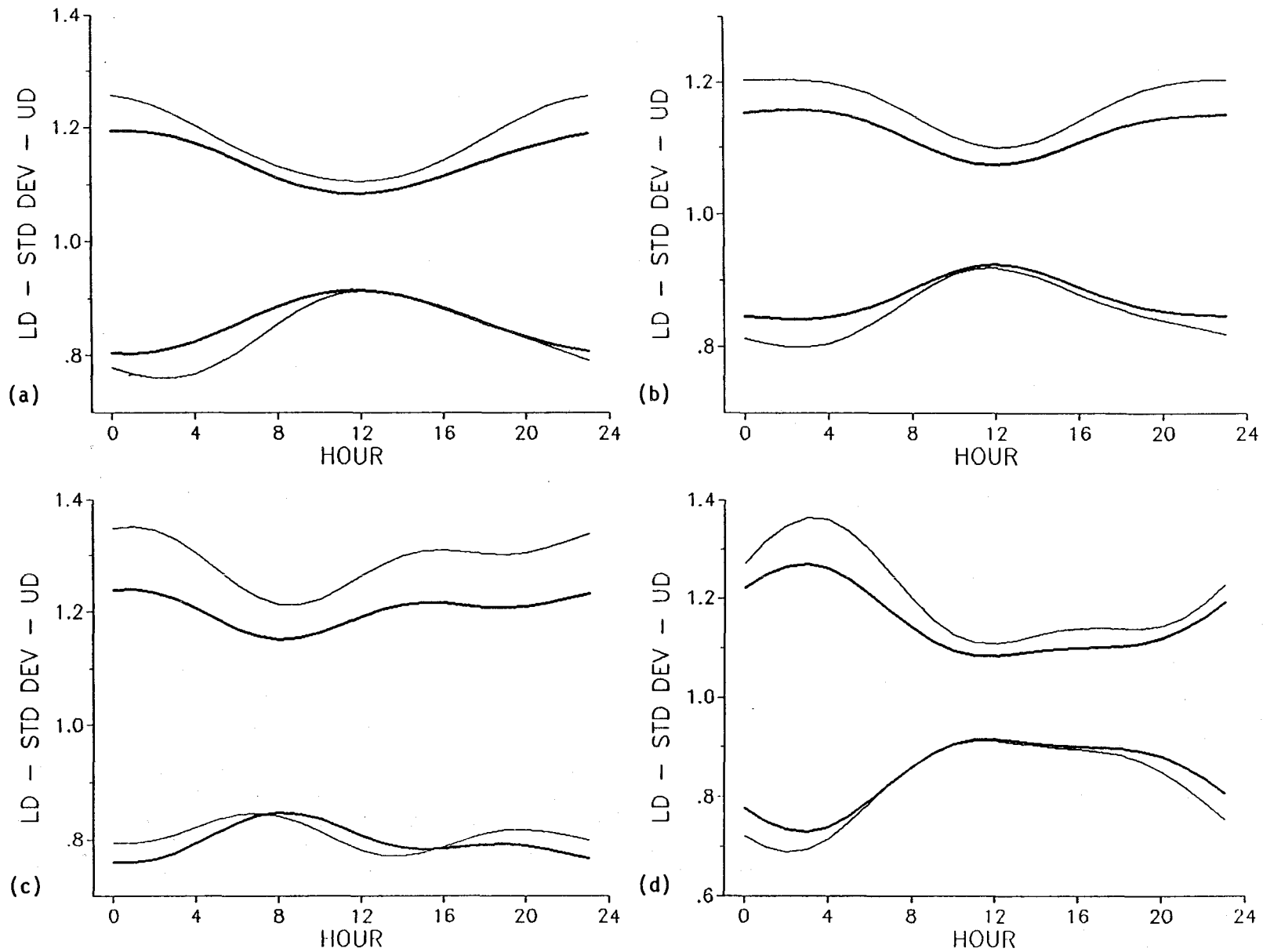


FIGURE 7. Characteristic curves of standard deviation factor (bold) and upper and lower decile for quiet magnetic and low solar conditions in winter at (a) Washington, (b) Canberra, (c) Maui and (d) Huancayo.

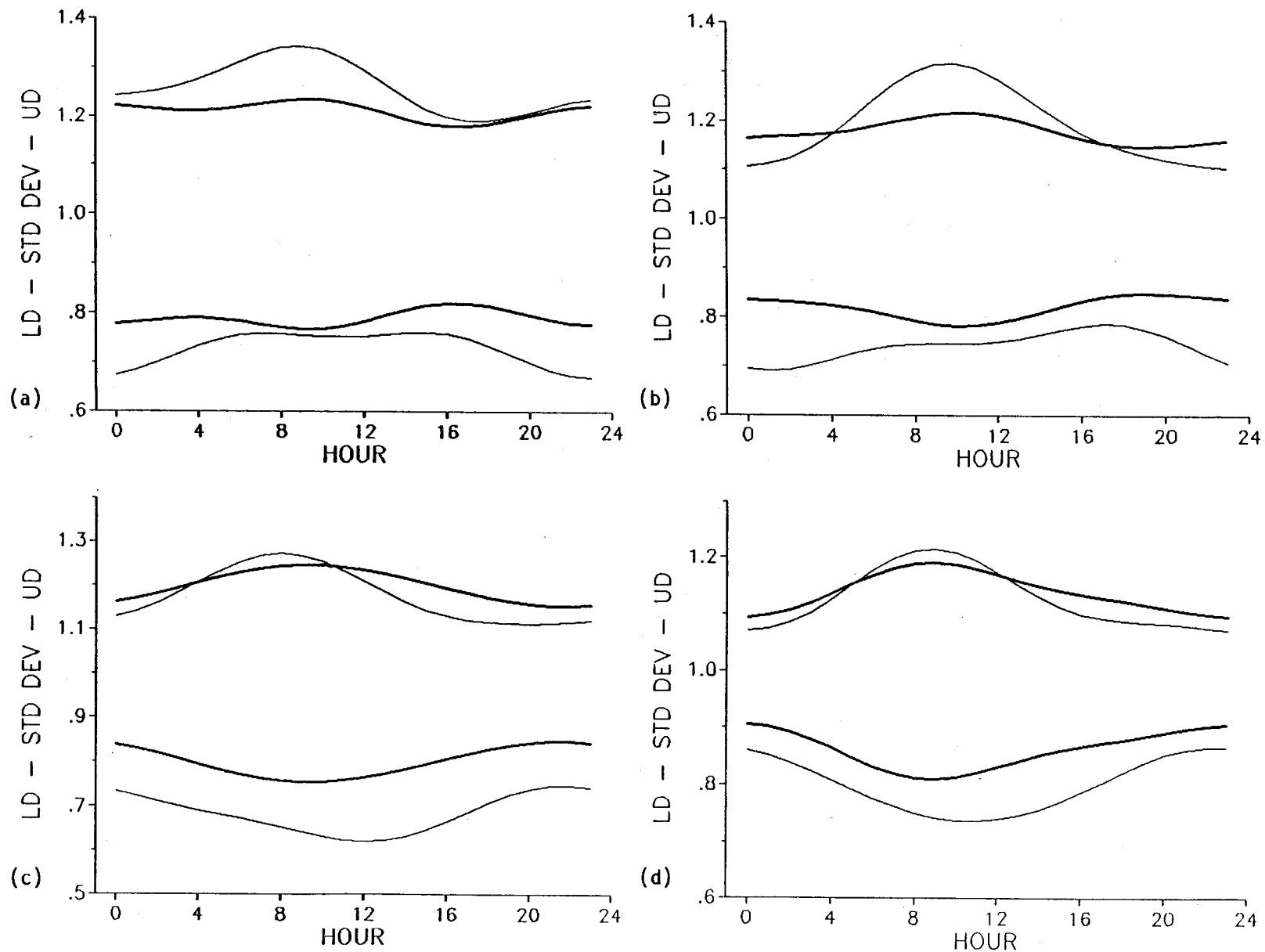


Figure 8. Characteristic curves of standard deviation factor (bold) and upper and lower decile for active magnetic and high solar conditions in spring at (a) Leningrad, (b) Hobart, (c) Washington and (d) Canberra.



differences occur between the lower decile and the lower bound of standard deviation during night hours at high-latitudes. At mid-latitude stations the lower decile is consistently lower than standard deviation for all hours.

The characteristic curves at all stations during equinox periods are given in Appendix B for both low and high solar periods. These plots show the lower decile factor does not deviate from the standard deviation curve as greatly during low solar periods.

Negative storms in mid and high-latitudes are accompanied by positive storms in lower (below ~40 degrees ML) and equatorial latitudes. The opposite relation is noted for positive storms in mid-latitudes. As can be seen in Appendix B, variabilities at lower magnetic latitude stations moderately increase relative to the median during both low and high solar periods.

### 3.3 Tabulated Results

A summary of the diurnal variability for each 10 degree increment in magnetic latitude is given in Table 3 for quiet magnetic and both low and high solar periods. Characteristic curves for all stations in each magnetic latitude range are averaged to produce the values shown in this table. For the equatorial range ( $\pm 5$  degrees) Huancayo is the only representative station. For the 45 to 55 degree N latitude range, however, characteristic curves for Boulder, Washington, Moscow and Khabarovsk are all averaged to produce the values listed under this range. No data were available for the 5-15 or the 25-35 degree north magnetic latitude ranges. Missing data in mid-latitude ranges can be interpolated from points in surrounding latitudes. However the dynamic nature of low-latitude variabilities does not justify this type of interpolation. Data from the opposite hemisphere may be used in low-latitude ranges to fill in missing latitudes for a rough estimate of the variability. Substitution of southern hemisphere variabilities for northern low-latitudes is not suggested in practice, but are depicted in Figures 9 and 10 for reference only.



















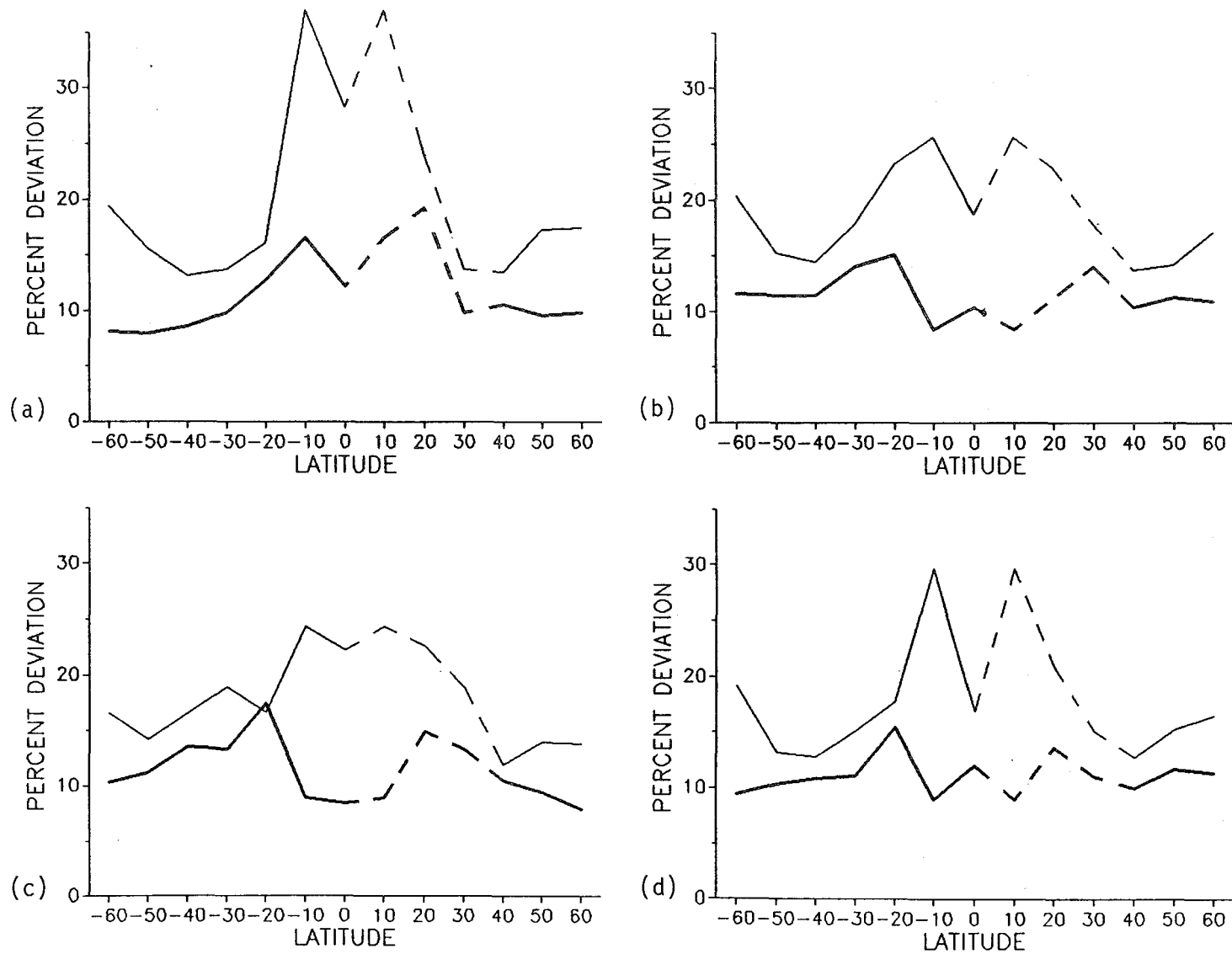


Figure 9. Latitudinal variabilities for noon (bold) and midnight for quiet magnetic and low solar conditions during (a) winter, (b) spring, (c) summer and (d) fall.

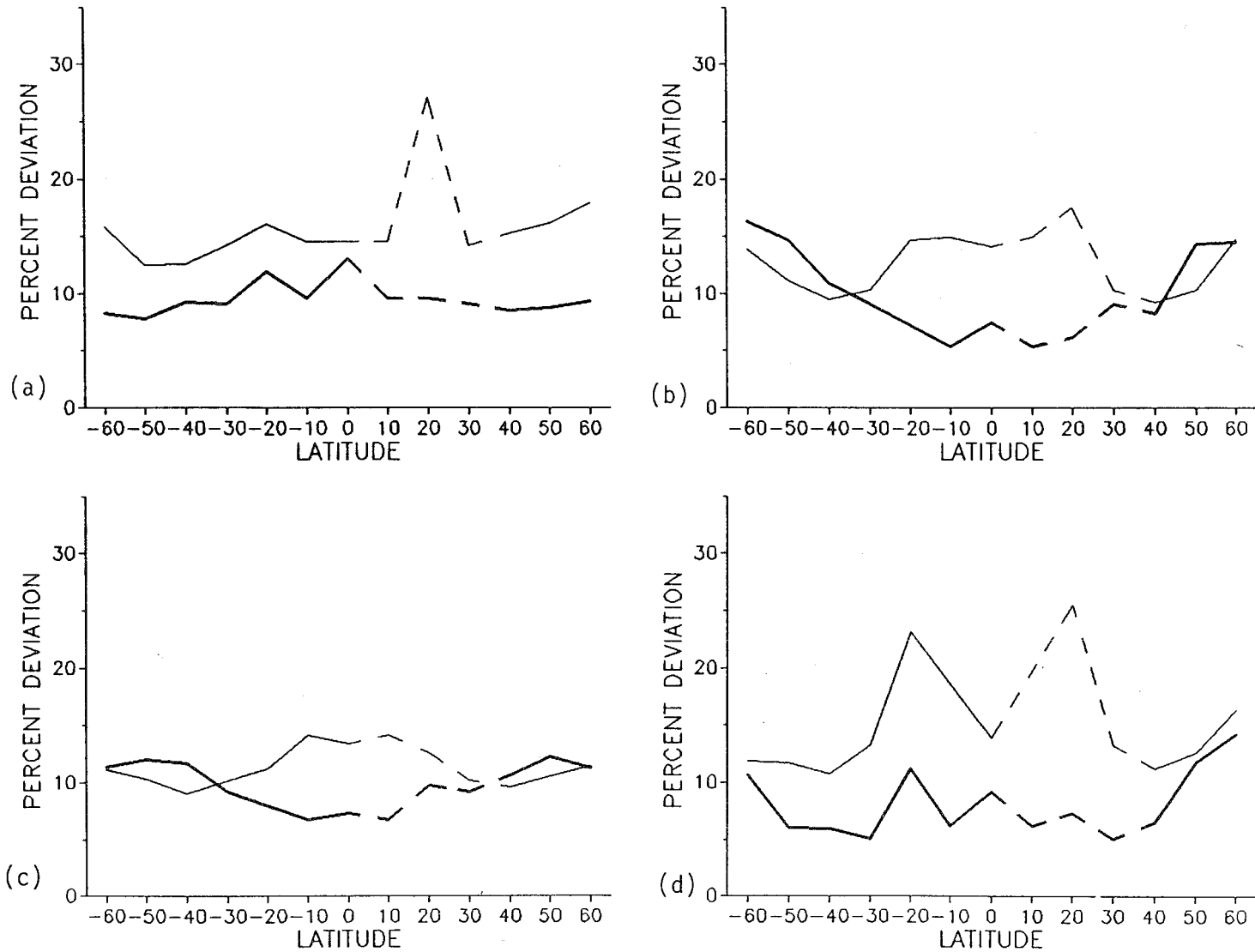


Figure 10. Latitudinal variabilities for noon (bold) and midnight for quiet magnetic and high solar conditions during (a) winter, (b) spring, (c) summer and (d) fall.

Figures 9 and 10 are the noon and midnight variabilities plotted for each magnetic latitude range for quiet magnetic periods and low and high solar ranges respectively. In general, high-latitude variabilities are somewhat greater than mid-latitude variabilities for both noon and midnight during high solar periods, and at midnight for low solar periods. As noted in Section 3.1, variabilities decrease from low solar to high solar periods. A symmetry between the northern and southern hemispheres can also be seen at mid-latitudes in these figures.

At low and equatorial latitudes, variabilities associated with locations corresponding to the crest of the equatorial anomaly can be much higher than at mid-latitudes. The equatorial anomaly occurs in low-latitudes and is centered around the magnetic equator (Rush et.al., 1969). The anomaly varies in latitude range from just a few degrees magnetic latitude, to over 20 degrees ML as a function of solar activity, season, and time of day. Large values of variability can be seen in low-latitudes at night during low solar periods. These variabilities may be particularly large during winter and fall nights for both low and high solar periods. At noon, slightly higher variabilities can occur around 20 to 30 degrees magnetic latitude during low solar periods. Equatorial variabilities are generally lower than those noticed at surrounding latitudes at night.

Tables of the diurnal variabilities, upper deciles and lower deciles for all months and latitude ranges are given in Appendix C. Included in this appendix are the variabilities for low ( $IG12 \leq 40$ ), medium ( $40 < IG12 < 110$ ) and high ( $IG12 \geq 110$ ) solar ranges. Variabilities for the middle solar ranges are included in this appendix. During certain periods, a straight line interpolation from low to high solar periods does not sufficiently represent the variabilities calculated from the data. Because of the general increase in magnetic activity during equinox periods, Appendix C also contains variabilities for active magnetic periods ( $AP > 19$ ) in March, April, September, and October. Also because of an increase in the level of magnetic activity during equinox periods,  $AP$  less than 20 is more representative of the average level of

activity. Therefore, variabilities were also calculated for AP less than 20 for the equinox periods and are also included in Appendix C.

#### 4. REGRESSION

The plots summarized in Section 3 indicate a solar cycle dependency of the variability. This dependency is further examined by calculating the first order regression of variability with IG12. The slope of the regression line is given in Table 4 for each hour and month for all stations. Only magnetically quiet variabilities were included in the slopes of the regression lines given in Table 4. The hours where the gradient of the regression lines were deemed to be significant (3 percent or larger) are underlined in this table, and the negative slopes are highlighted with a dot.

Table 4 shows that many of the highlighted slopes are negative, indicating a decrease in variability with increasing solar activity. For the mid to high-latitude stations, a negative correlation with solar activity occurs during summer night and winter early evening and late morning hours. Positive correlations with IG12 occur mainly during summer daylight hours. In the southern hemisphere, where the seasons are reversed, the patterns exhibited in this table are also reversed.

Variabilities at low-latitudes are more dependent on solar cycle than high-latitude stations. At Maui, Concepcion, and Vanimo more than 70 percent of the hours show significant negative solar cycle dependency. At the magnetic equator, Huancayo shows mostly negative solar cycle dependency between 2300 and 0700 LT.

Although the regression coefficients for the slopes summarized in Table 4 do not always indicate significance, the patterns that are shown are quite consistent. The low-latitude stations--Maui, Vanimo, and Concepcion--show the greatest solar cycle dependency in variability. In general, the mid-latitude stations show somewhat less solar cycle dependency than low-latitude stations, however, the patterns illustrating which hours and months have positive and negative solar dependencies are consistent among these stations.

A few examples of the regression lines are shown in Figures 11













and 12. Noon and midnight variabilities are plotted against IG12 during the month of April for Tomsk, Boulder, Maui and Brisbane. Although variabilities for all years are shown on these plots, the regression line shown is calculated including only magnetically quiet data points (indicated by a plus in the figures).

As can be seen in these figures, most of the variabilities associated with high AP ( $AP > 19$ , and indicated by an 0 in the figures) are higher than the regression line at both noon and midnight at Boulder and Tomsk. At Maui and Brisbane however, the magnetically active variabilities do not deviate as drastically from the quiet variability regression line. Since Maui is a low-latitude station, and Brisbane is more than 12 degrees ML lower than either Boulder or Tomsk, magnetic activity may have less effect on variability at lower latitudes.

## 5. SUMMARY

This report characterizes the variability in the F2 layer critical frequency of the ionosphere. Based on initial studies of the variability, foF2 is characterized on a seasonal, solar and diurnal basis for magnetically inactive periods. Upper and lower deciles of foF2 were also determined for purposes of comparison to the standard deviation factor. The difference between the decile factors and the standard deviation factor is negligible when magnetic activity is not considered.

Magnetic activity, however, will affect the variability in foF2. Due to the complicated nature of the interaction of magnetic activity with foF2, magnetic influences were not investigated extensively in this report. Examples of variability for magnetically active conditions during equinox periods are, however, given in this report. These examples show that during magnetically active, high solar periods, the lower decile of the foF2 may become depressed. Low solar and active magnetic periods do not show this depression in the lower decile factor, though marked deviations between the upper decile and standard deviation are noticed.

For most communications applications, the frequency which will propagate for 90 percent of the transmission period is required.

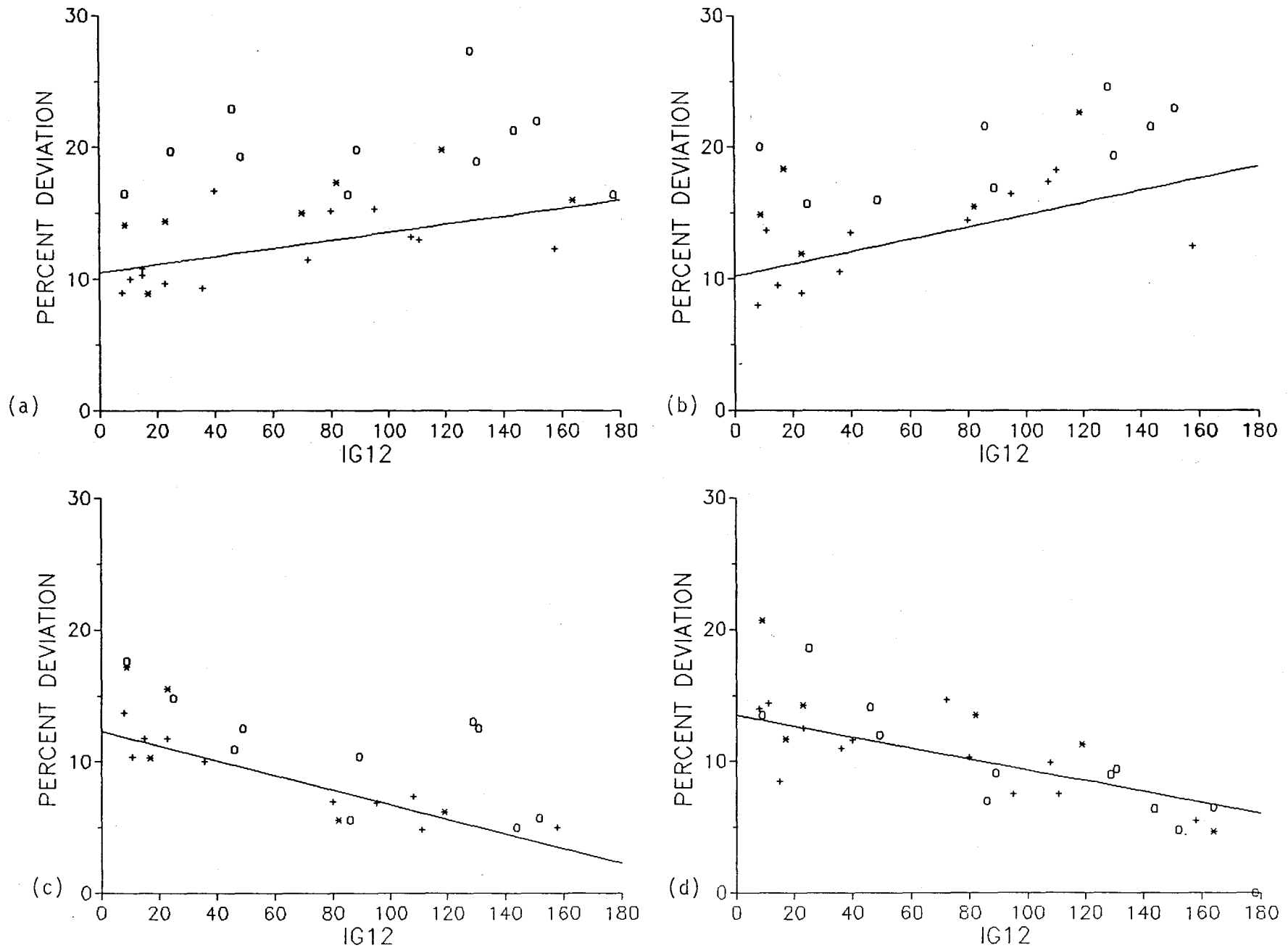


FIGURE 11. Regression line with IG12 for quiet variabilities (indicated by a +) in April for noon at (a) Tomsk, (b) Boulder, (c) Maui, and (d) Brisbane. Active variabilities are indicated by an\* (for AP range 15 to 19) and 0 (for  $AP \leq 19$ ).

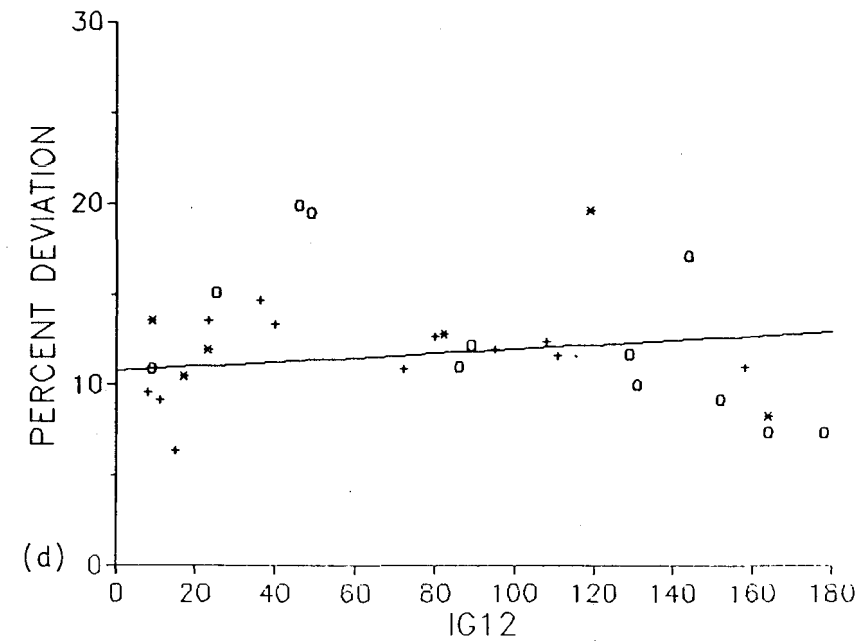
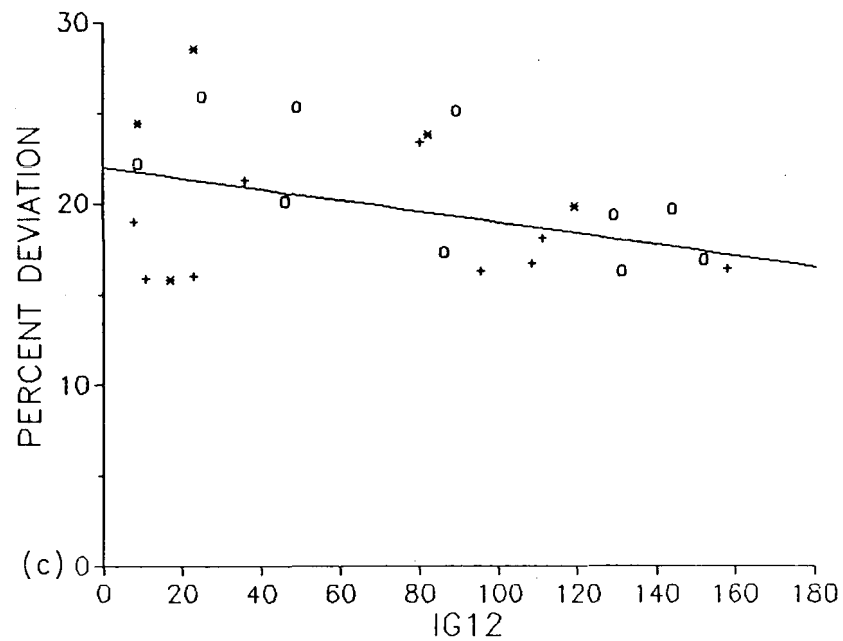
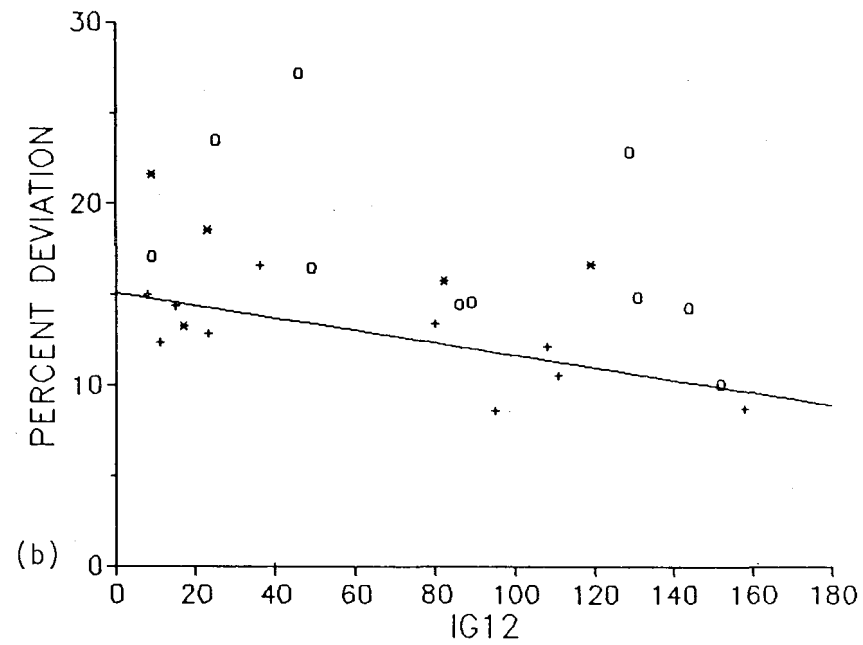
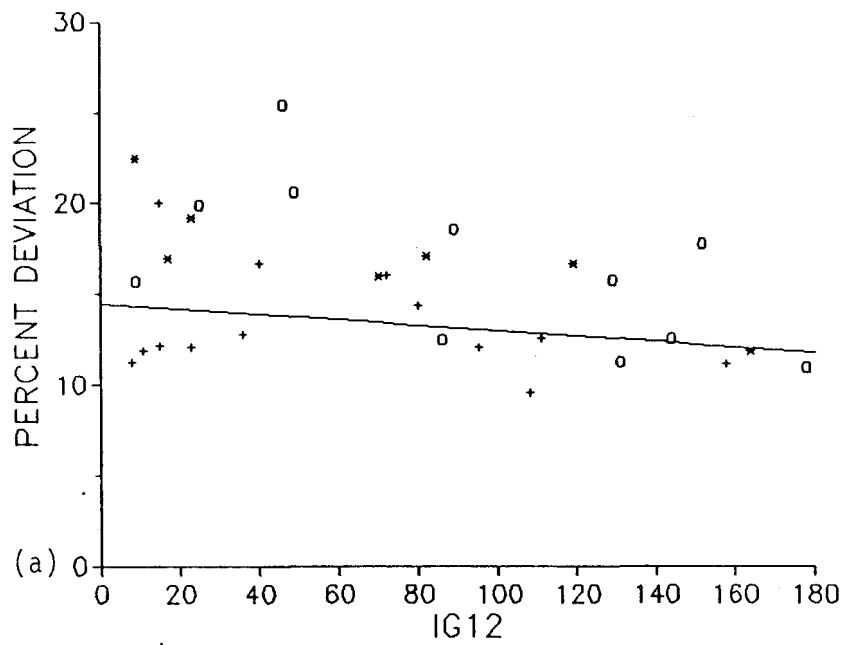


FIGURE 12. Regression line with IG12 for quiet variabilities (indicated by a +) in April for midnight at (a) Tomsk, (b) Boulder, (c) Maui, and (d) Brisbane. Active variabilities are indicated by an\* (for AP range 19 to 19) and O (for  $AP \leq 19$ ).

The distribution of the foF2 will limit this frequency as will the lower decile of the 3000 km transmission factor (M(3000)F2). In magnetically active periods, it may be better to use the lower decile factor. During quiet magnetic periods, the difference between the lower decile and standard deviation characterizations of the distribution are not significant, and either characterization will yield similar frequencies projected to propagate 90 percent of time.

For prediction purposes, the tables presented in Section 3.3 and Appendix C, can easily be incorporated into a computerized format to enhance the prediction of F2 layer parameters. Given a monthly median foF2, these tables could then be used to describe the distribution of the daily foF2's around the median for high, medium and low solar activity as well as for active magnetic equinox periods.

Although this report summarizes the daily variation in foF2 for quiet periods and certain active magnetic periods, extreme variations in foF2 may occur during magnetic storms. Because of the complicated nature of the interactions between foF2 and magnetic activity, a description of this phenomenon requires more detailed study.

## 6. REFERENCES

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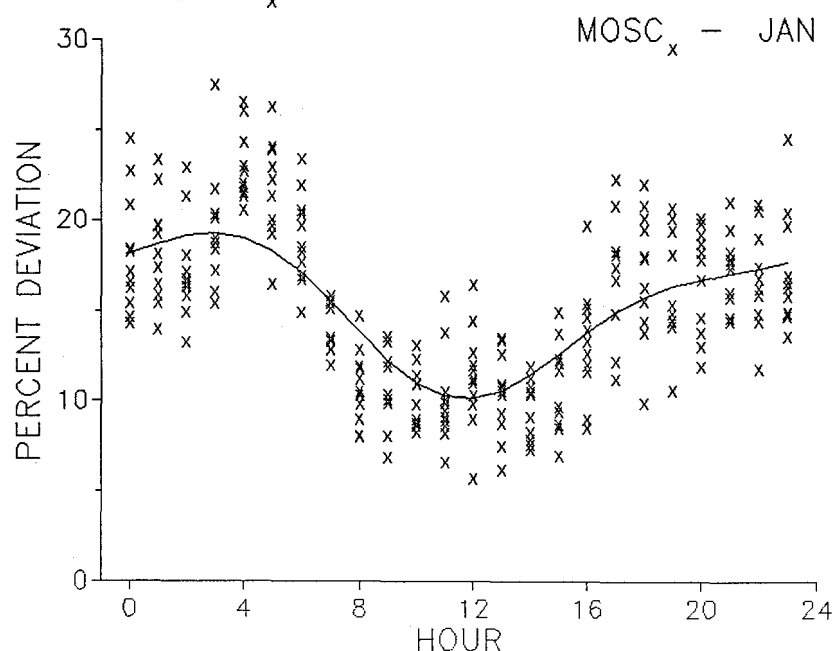
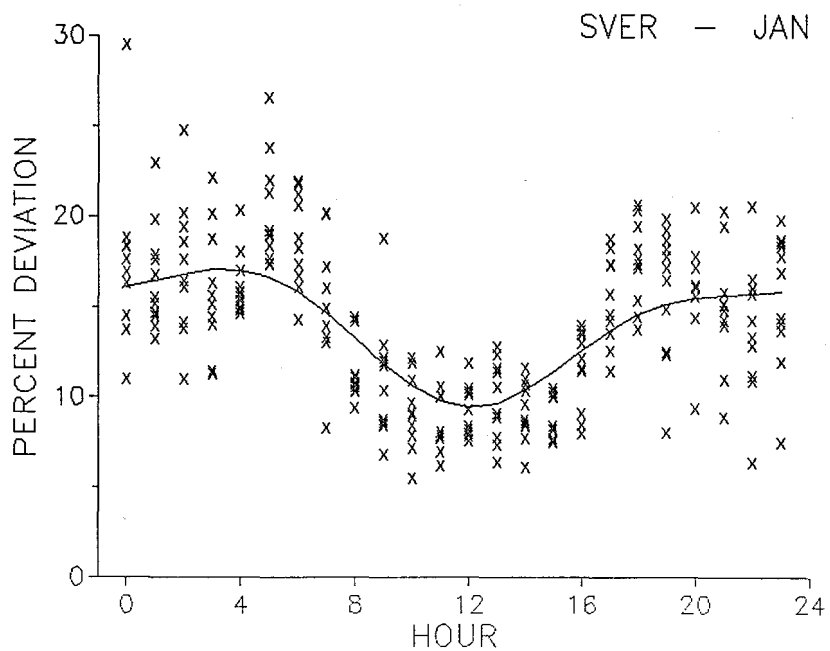
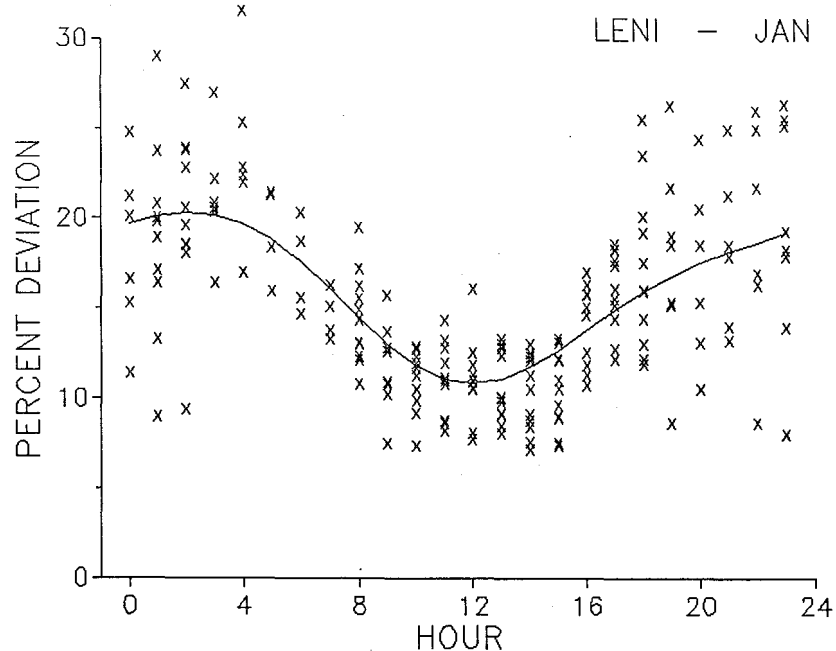
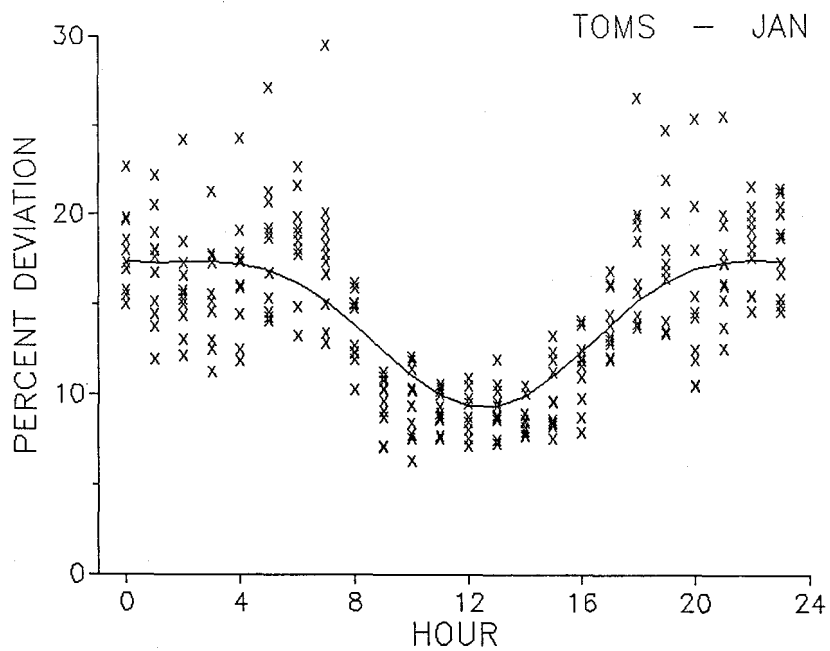
APPENDIX A

PERCENT DEVIATION PLOTS FOR ALL STATIONS DURING  
 QUIET MAGNETIC, AND LOW AND HIGH SOLAR PERIODS  
 FOR WINTER, SPRING, SUMMER, AND FALL SEASONS

LOW SOLAR	WINTER	SPRING	SUMMER	FALL
TOMSK, LENINGRAD SVERDLOVSK, MOSCOW	42	47	52	57
WASHINGTON, BOULDER KHABAROVSK, ALMA ATA	43	48	53	58
TASHKENT, ASHKABAD MAUI, HUANCAYO	44	49	54	59
VANIMO, CONCEPCION TOWNSVILLE, NORFOLK	45	50	55	60
BRISBANE, CANBERRA MUNDARING, HOBART	46	51	56	61
HIGH SOLAR	WINTER	SPRING	SUMMER	FALL
TOMSK, LENINGRAD SVERDLOVSK, MOSCOW	62	67	72	77
WASHINGTON, BOULDER KHABAROVSK, ALMA ATA	63	68	73	78
TASHKENT, ASHKABAD MAUI, HUANCAYO	64	69	74	79
VANIMO, CONCEPCION TOWNSVILLE, NORFOLK	65	70	75	80
BRISBANE, CANBERRA MUNDARING, HOBART	66	71	76	81

# QUIET MAGNETIC

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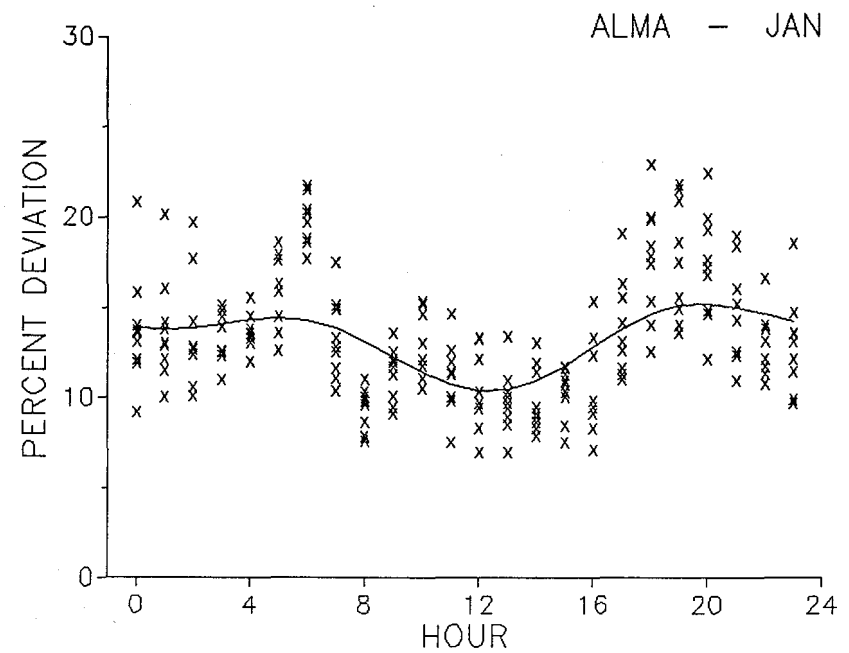
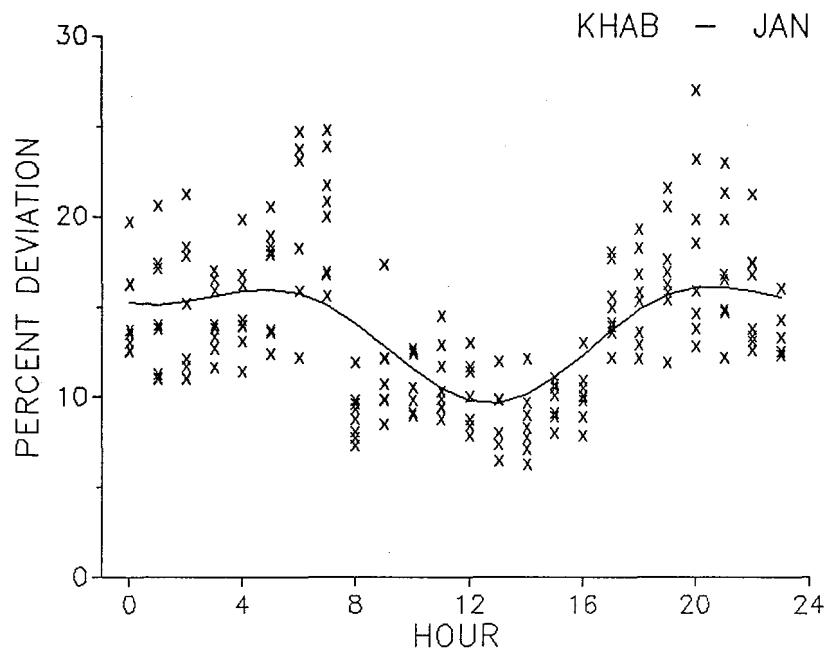
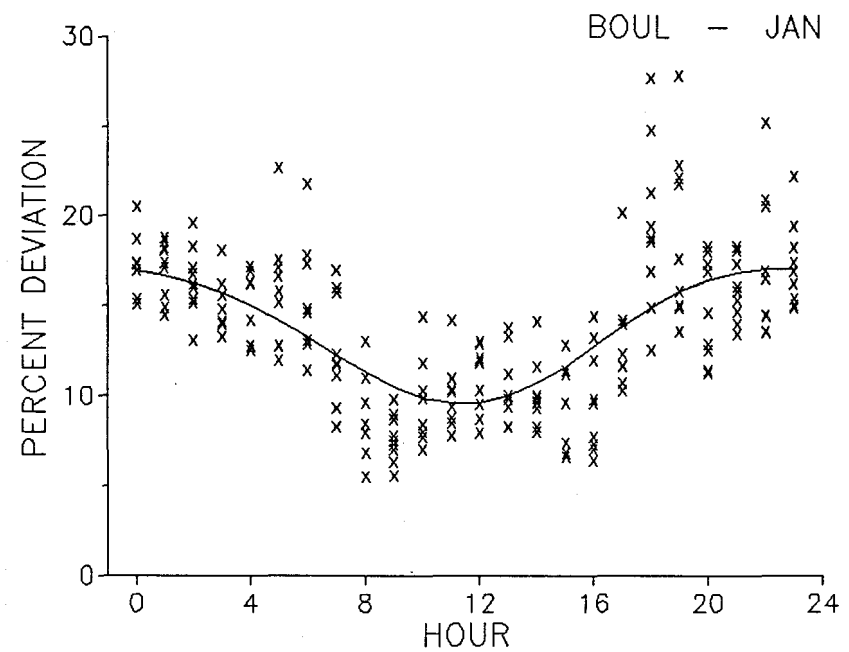
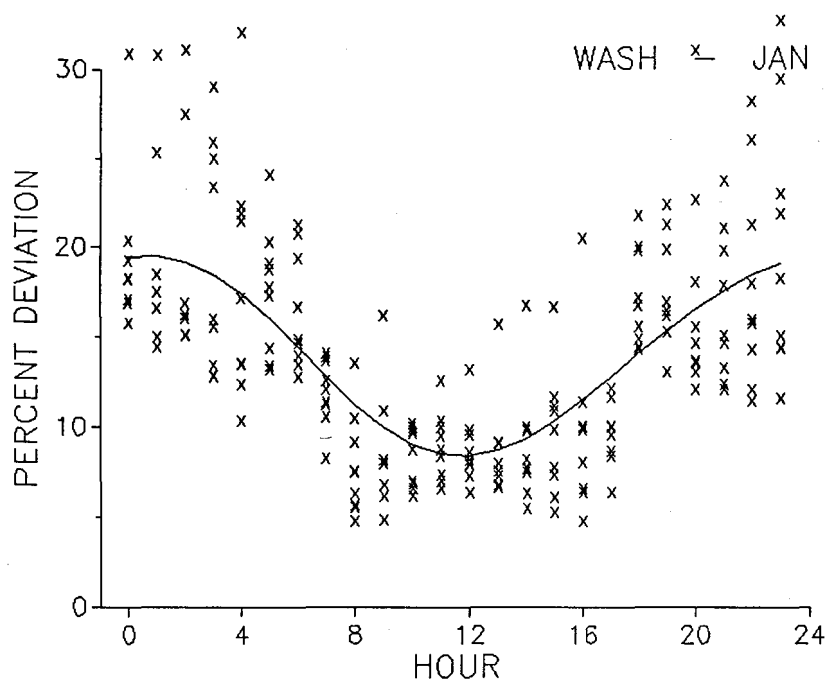




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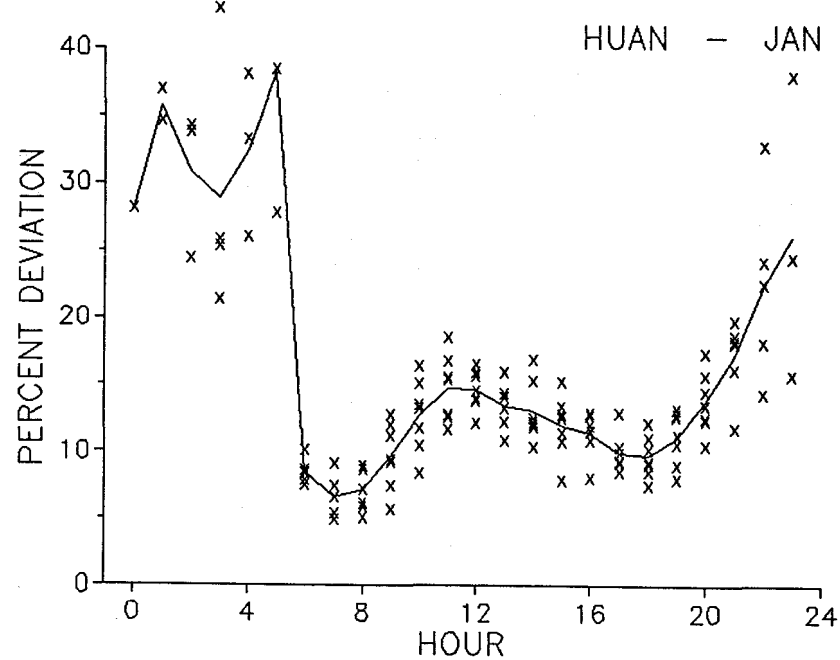
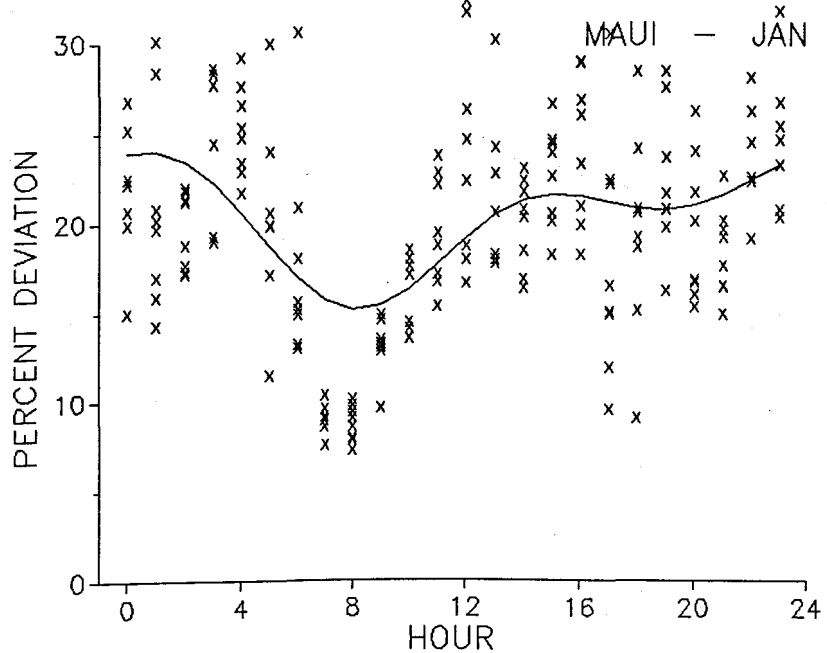
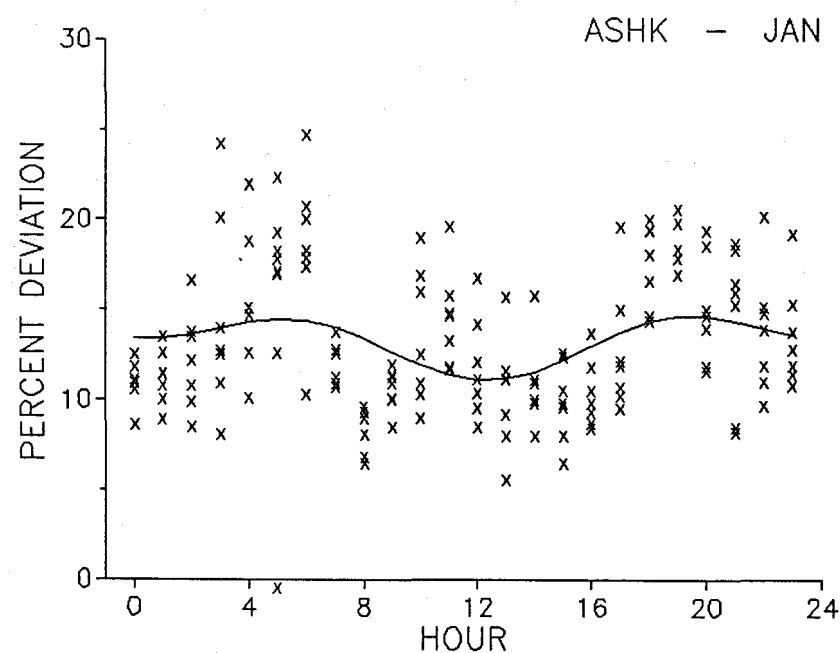
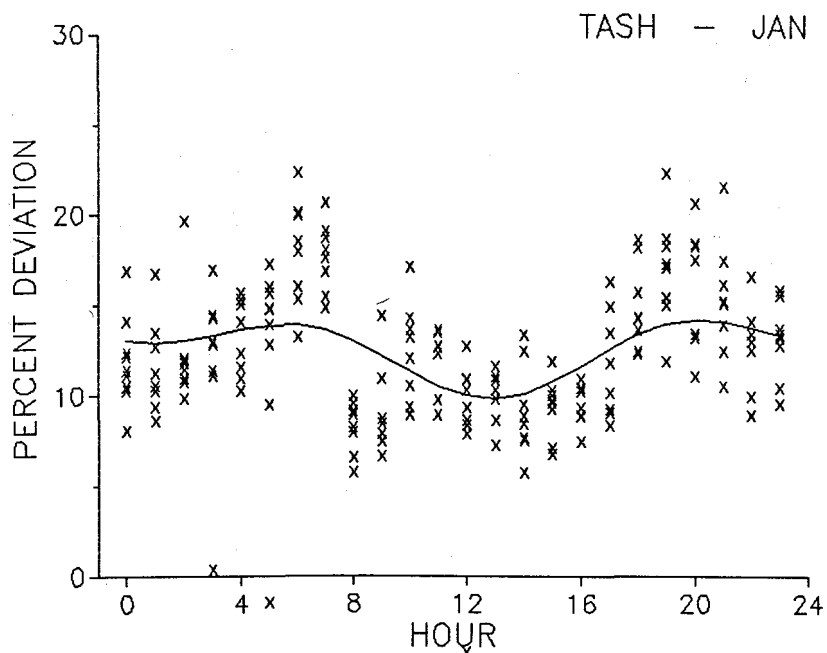
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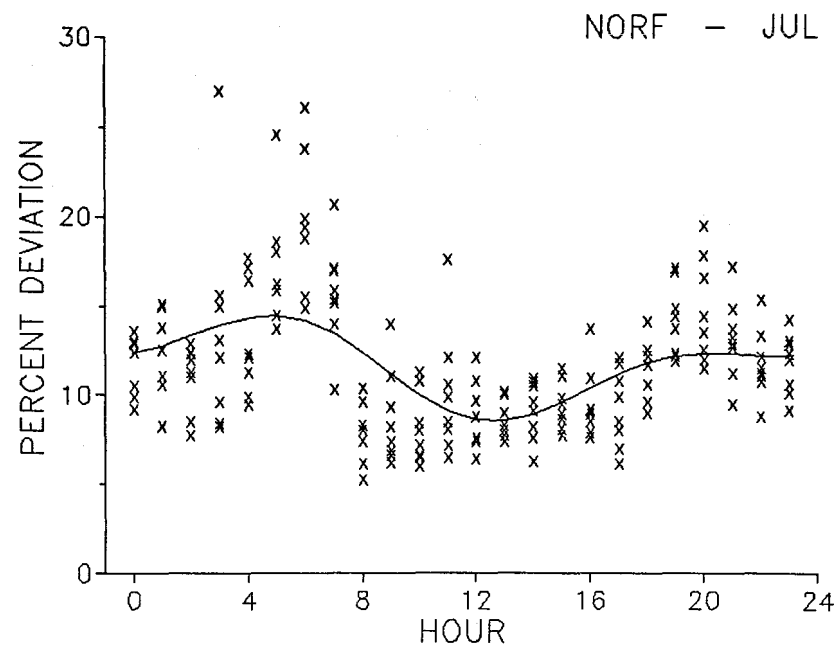
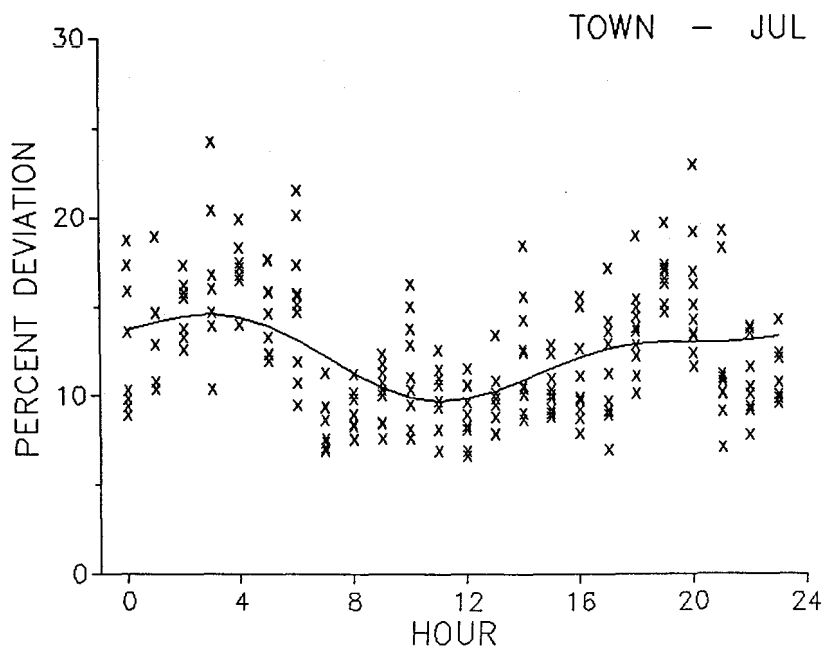
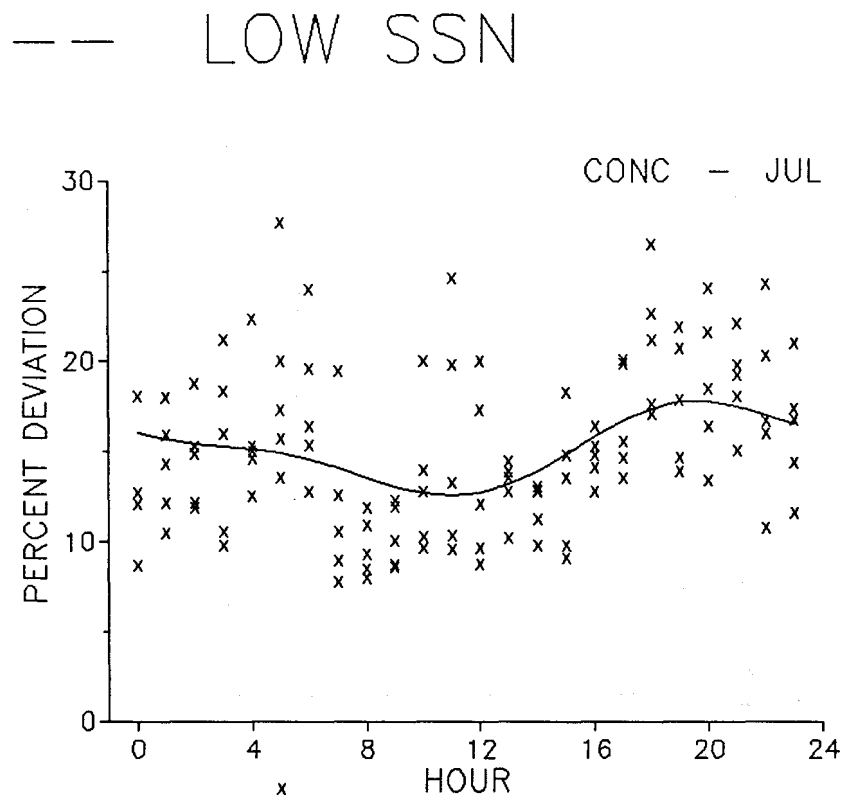
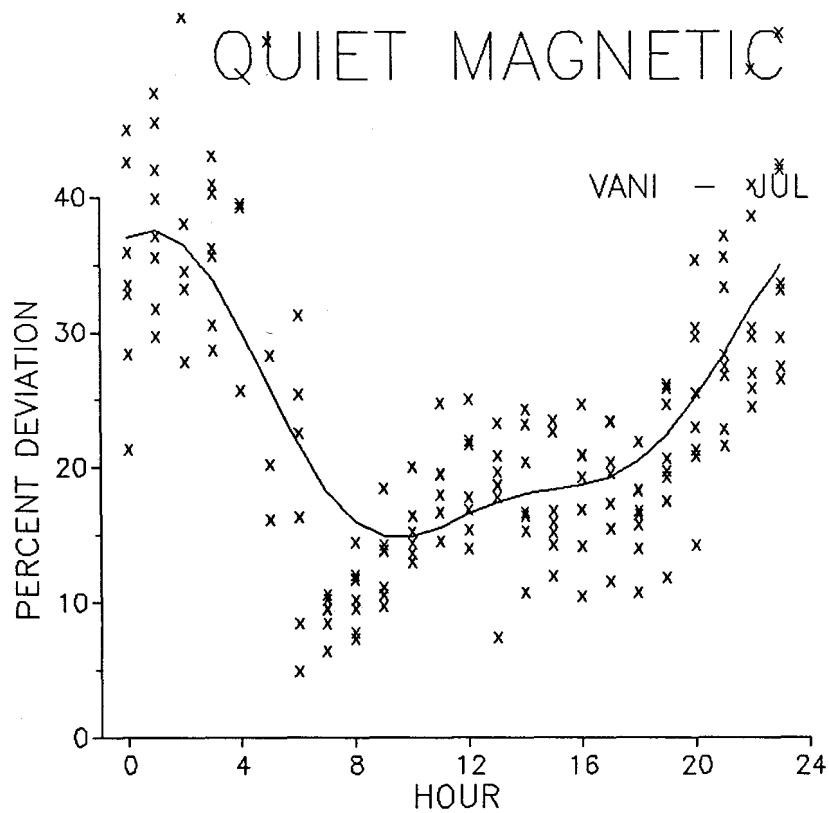


QUIET MAGNETIC

— — LOW SSN

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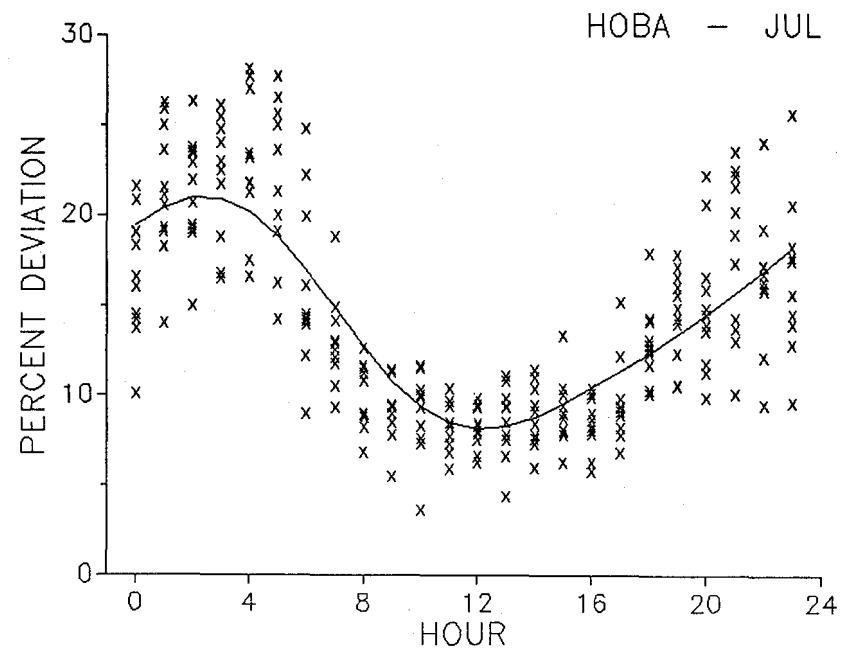
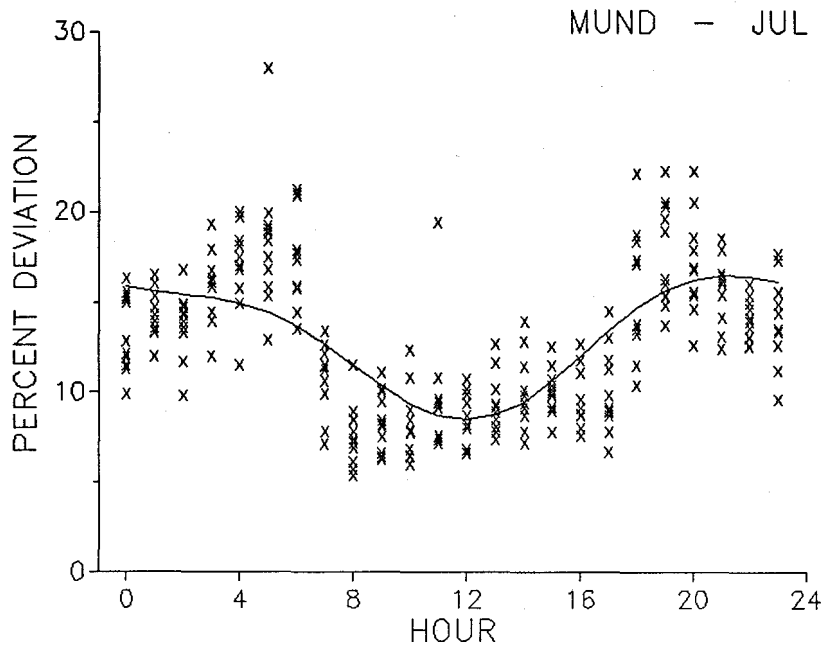
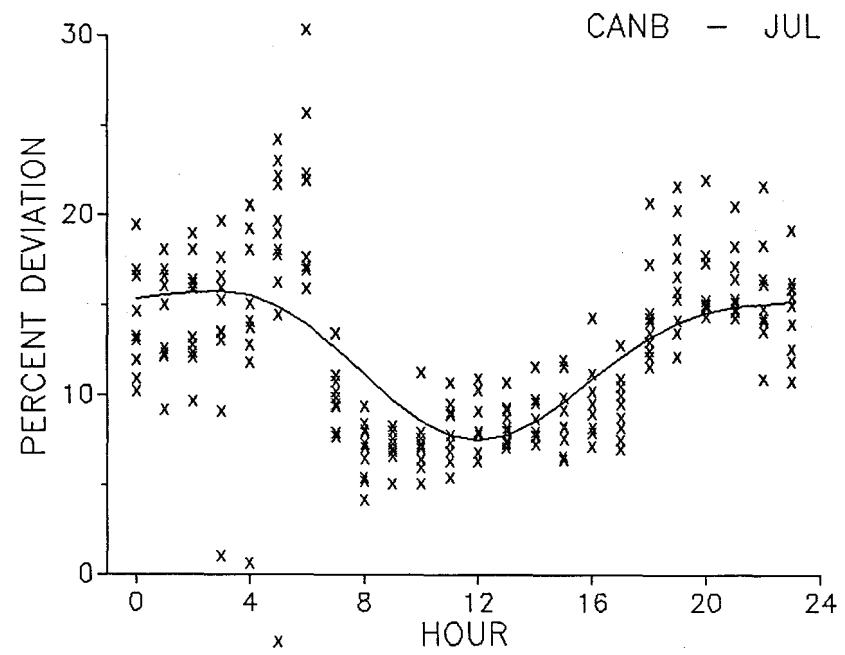
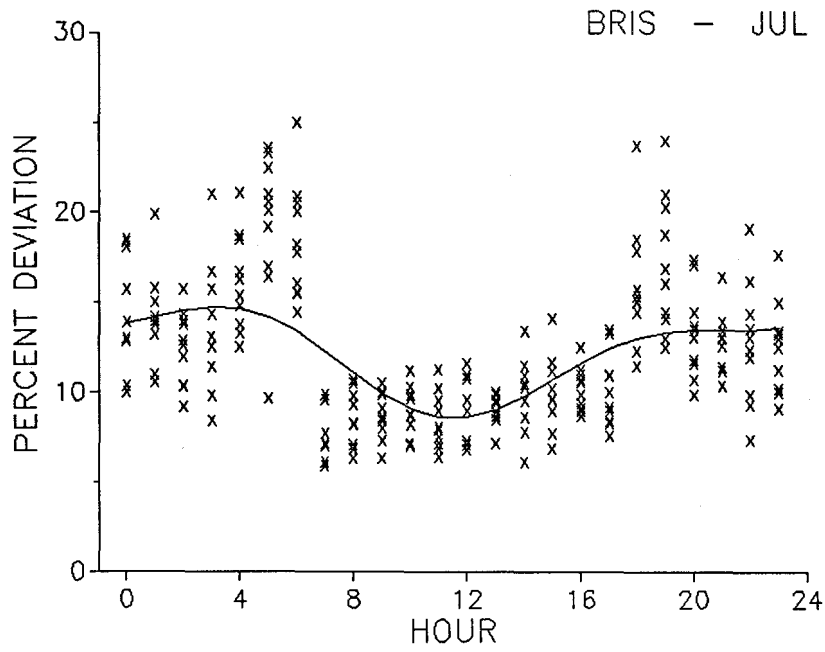




QUIET MAGNETIC

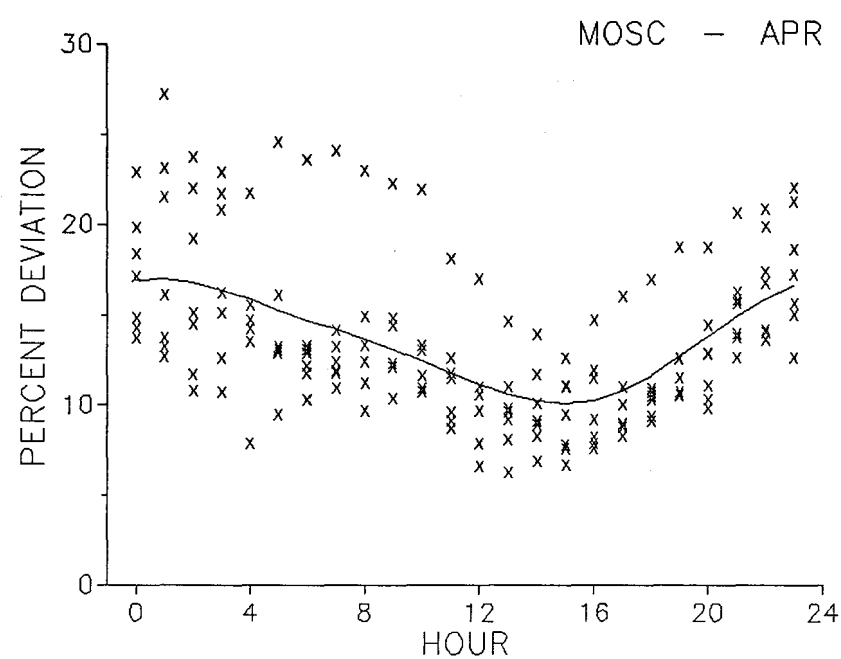
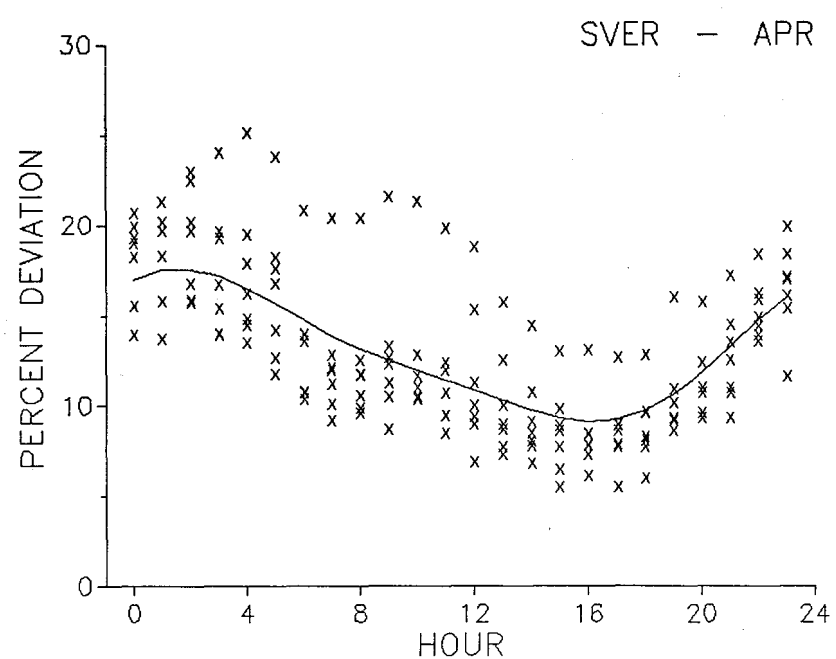
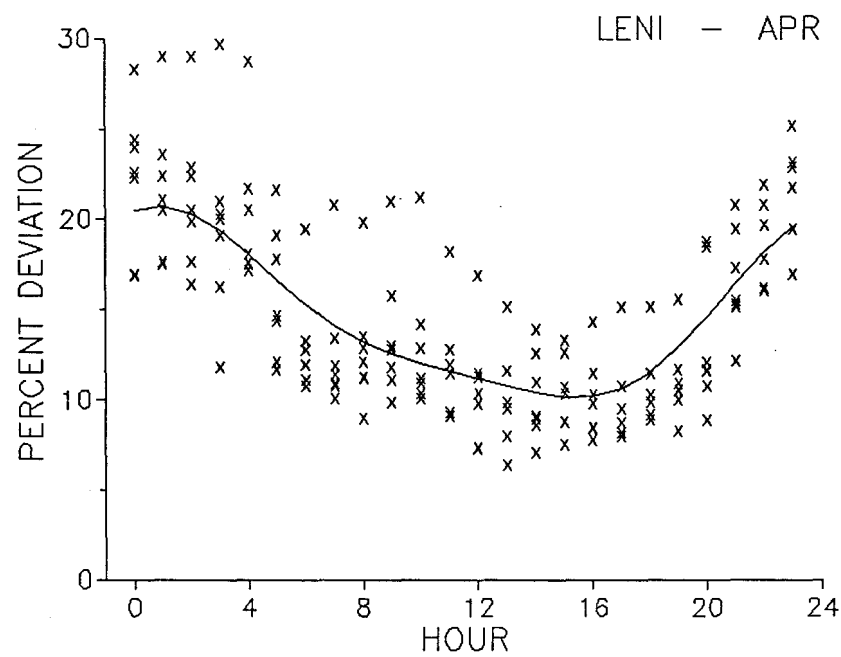
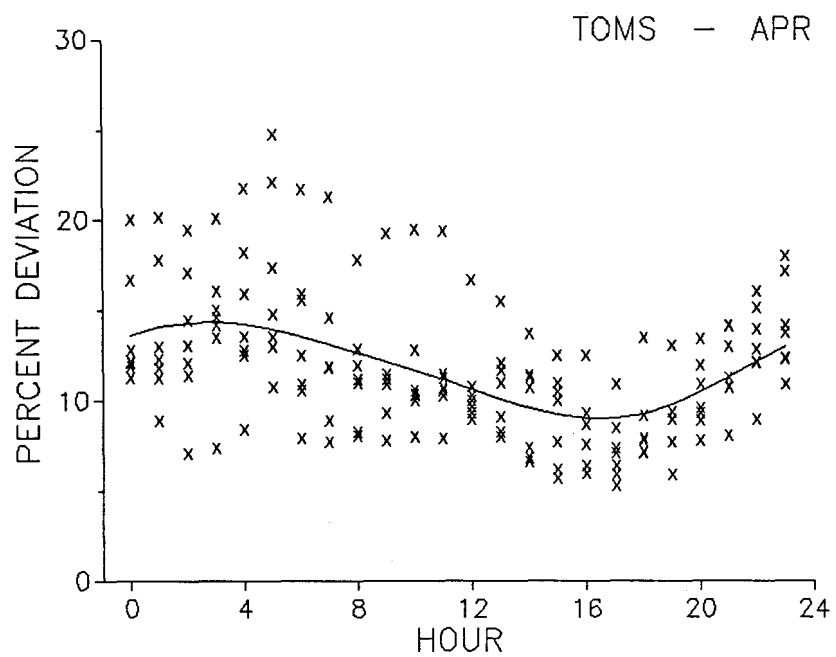
— —

LOW SSN



# QUIET MAGNETIC

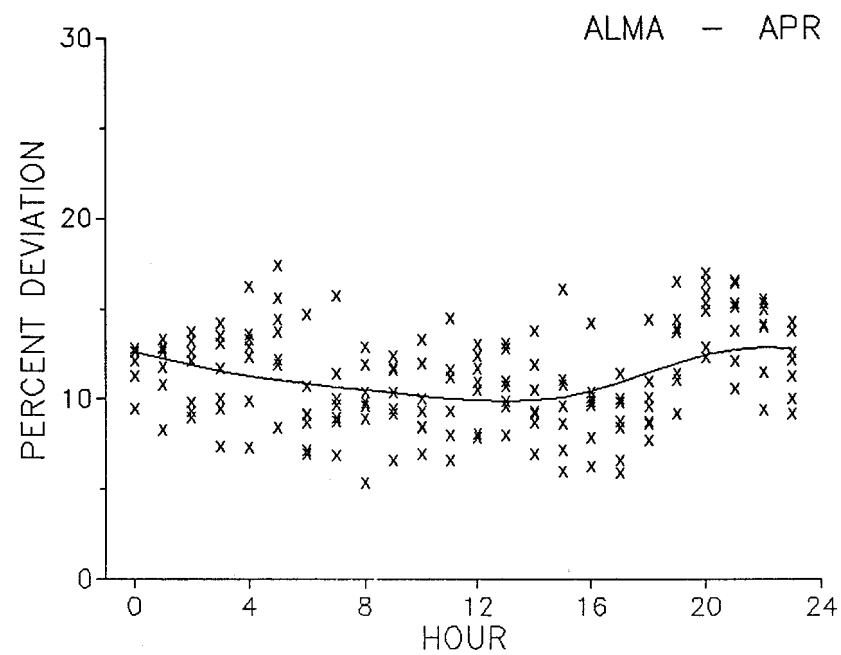
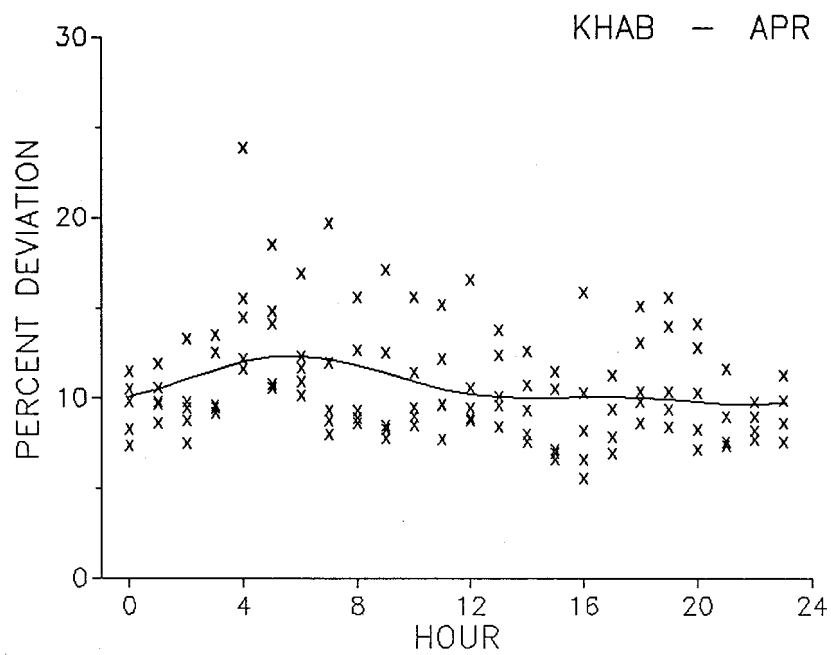
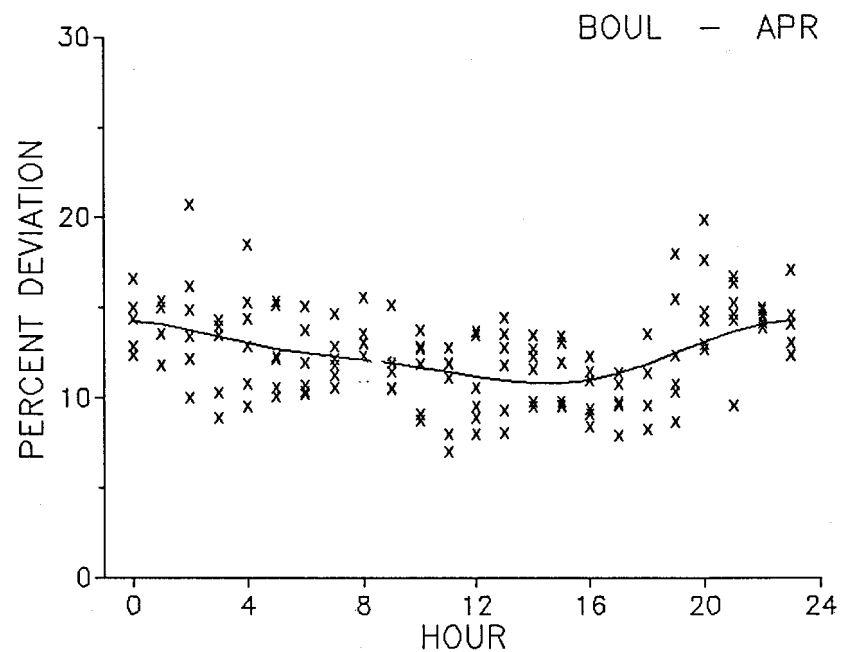
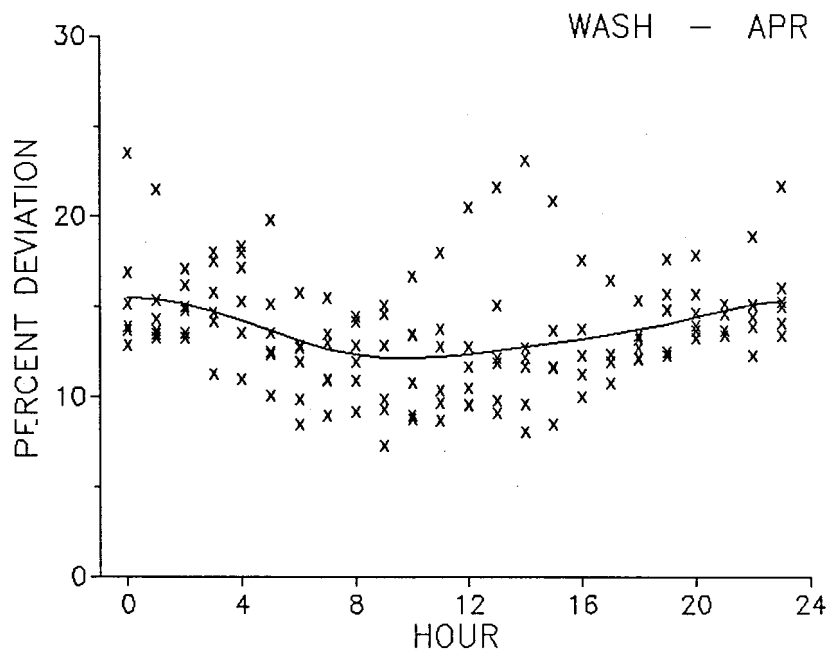
# — — LOW SSN



# QUIET MAGNETIC

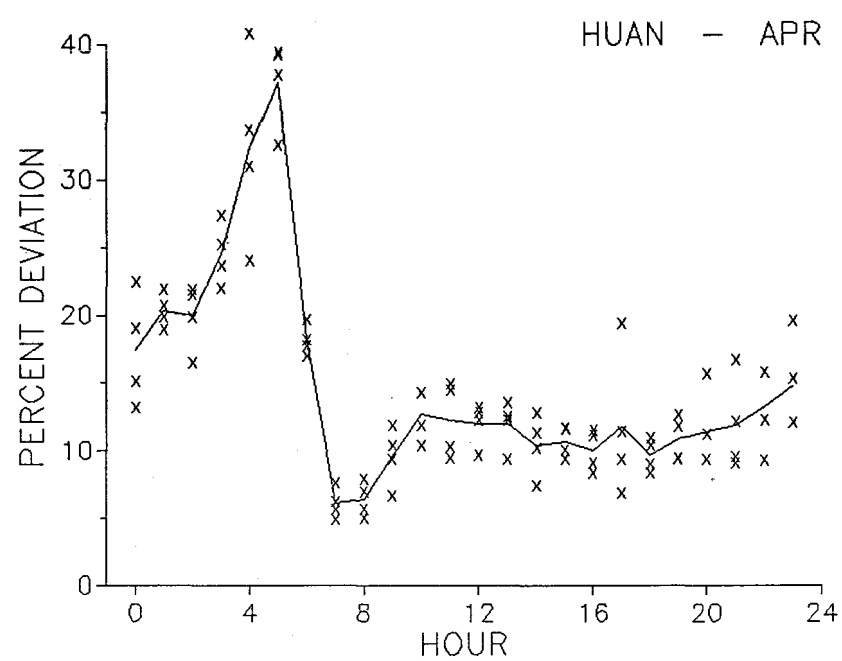
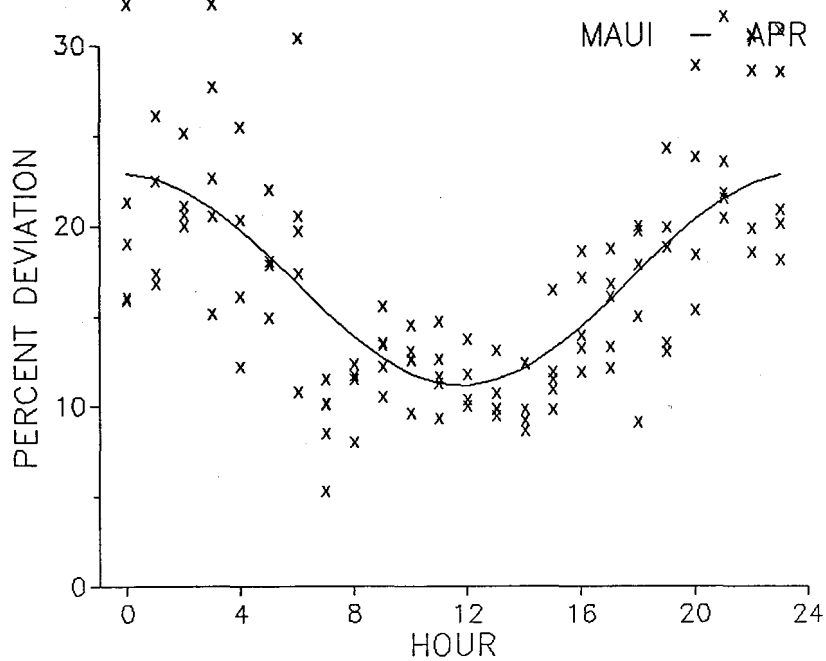
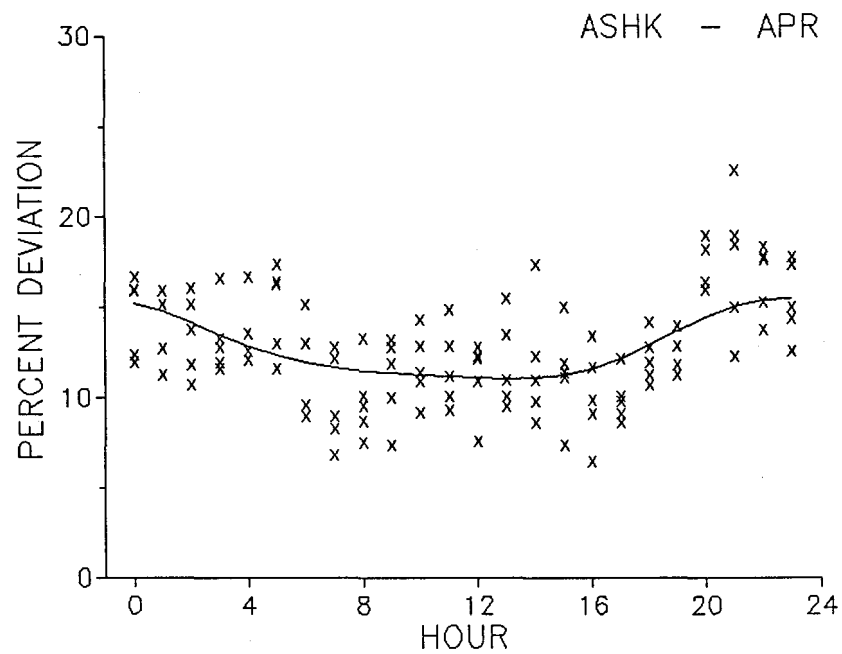
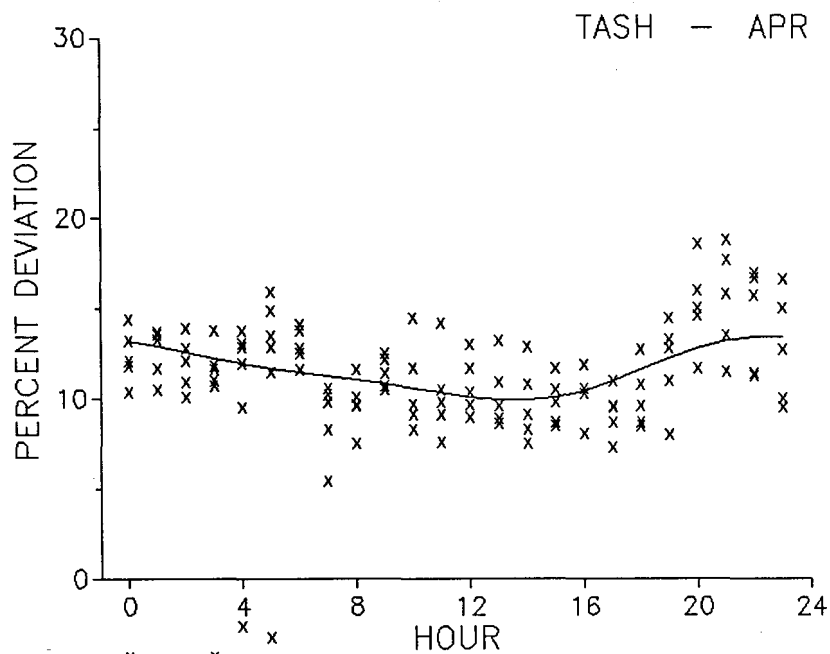
# — — LOW SSN

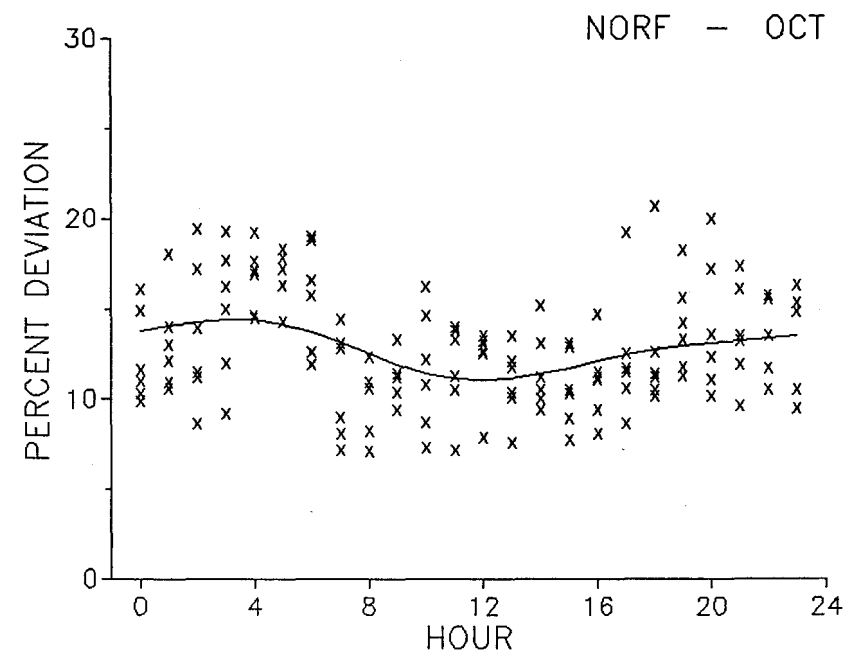
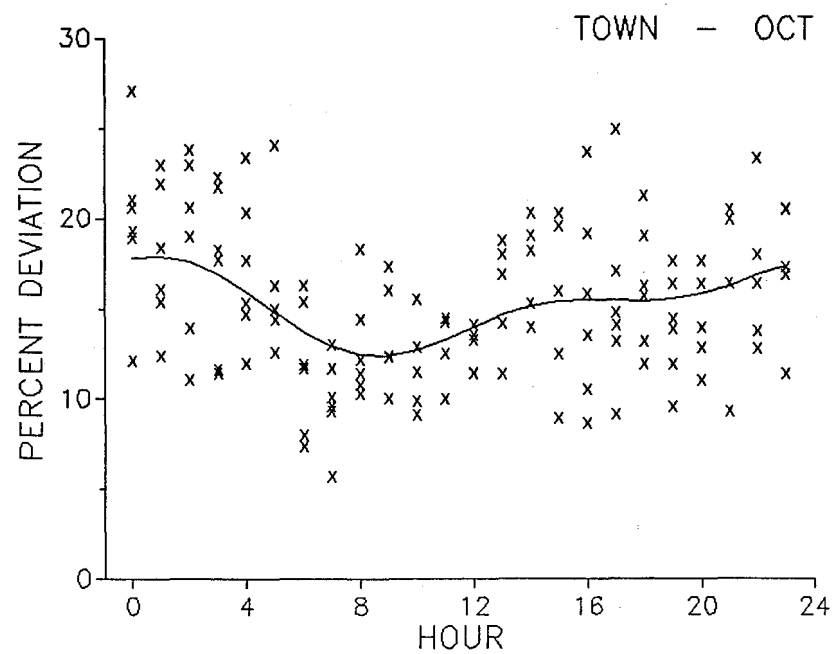
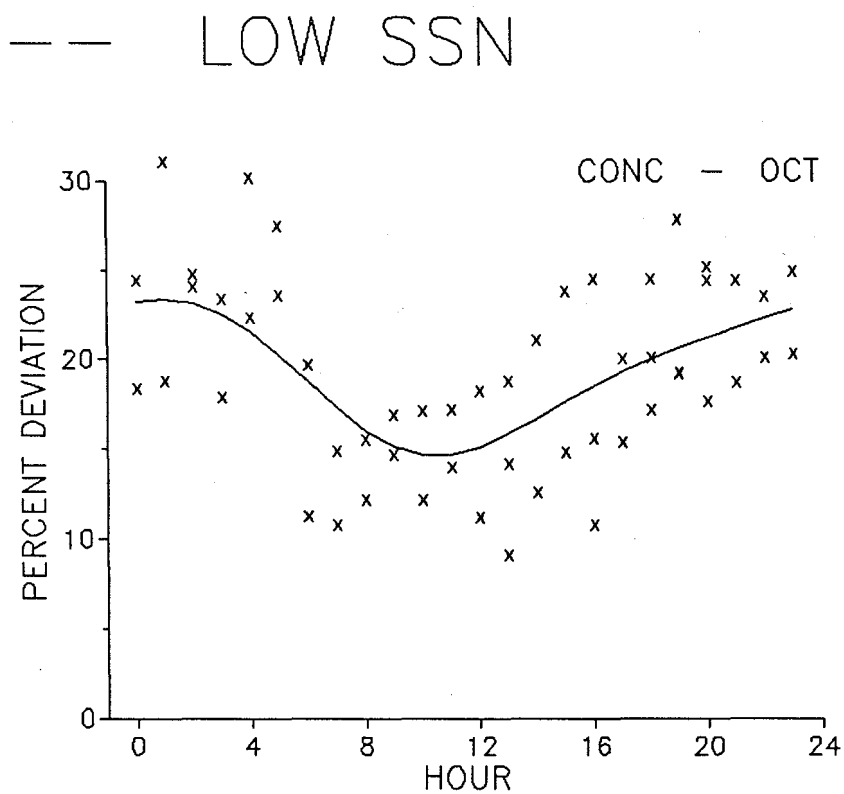
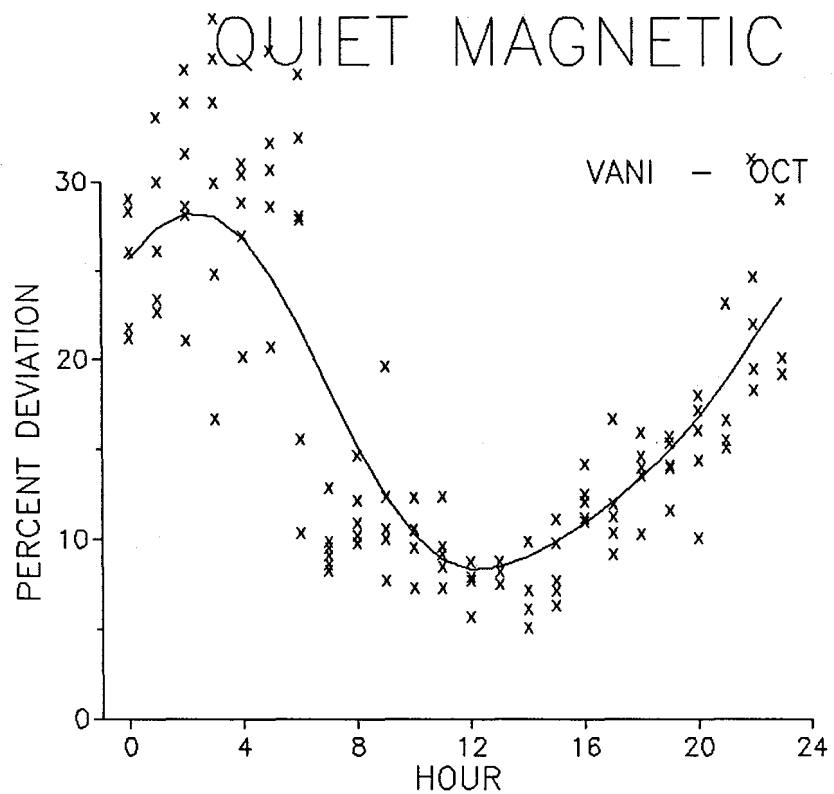
48



QUIET MAGNETIC

— — LOW SSN

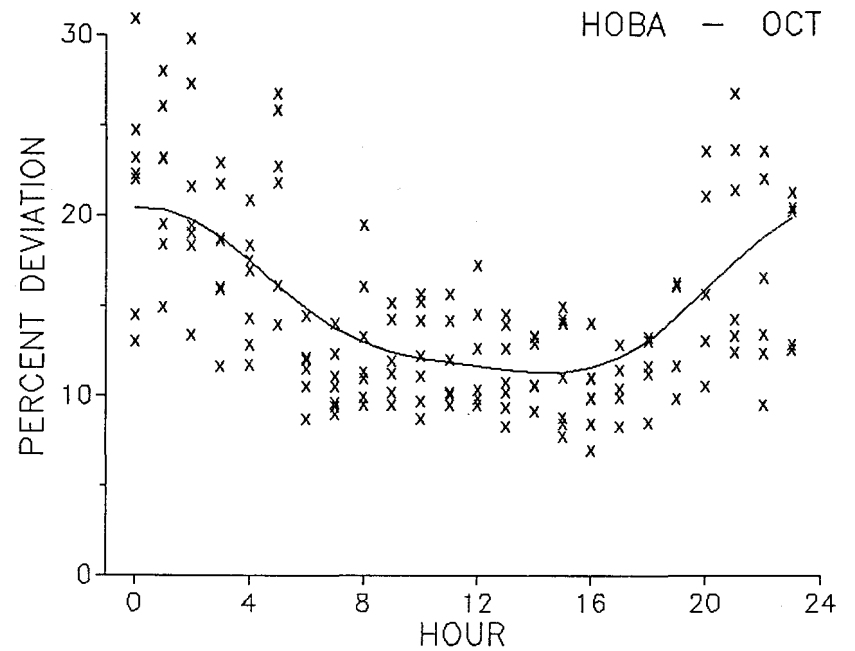
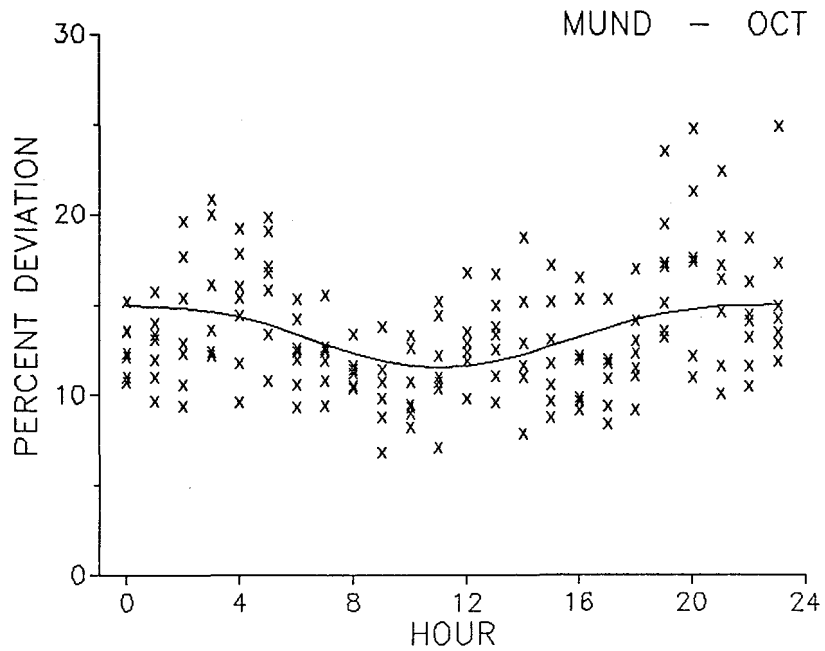
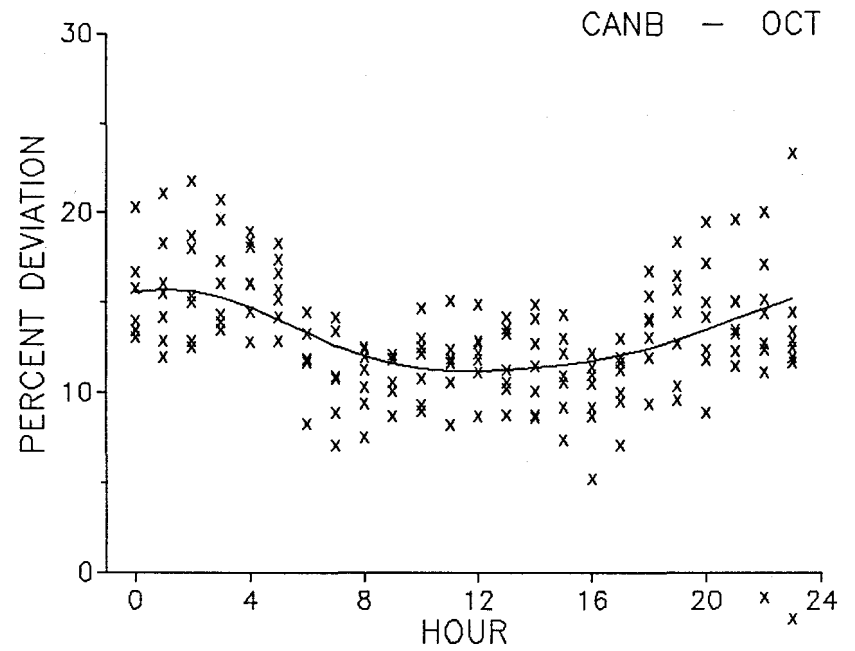
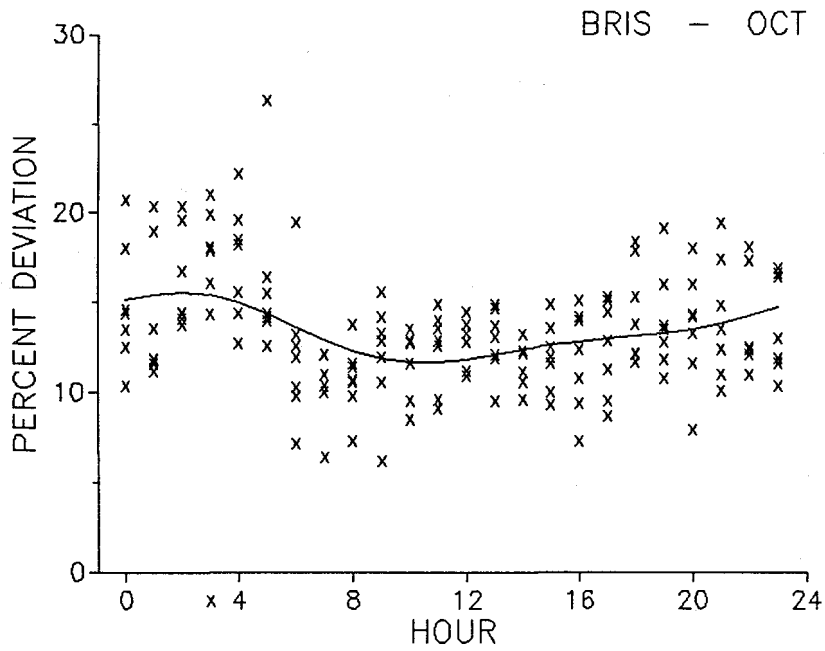






QUIET MAGNETIC

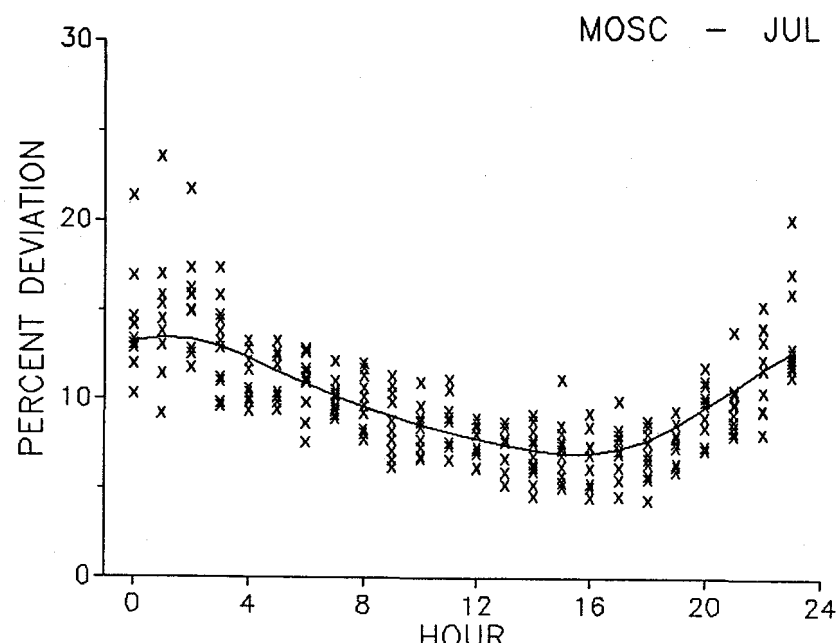
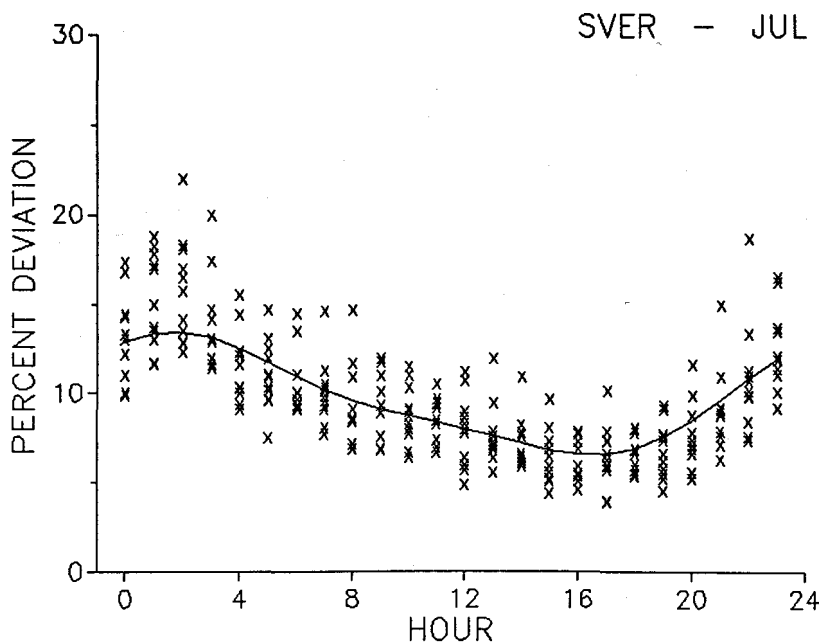
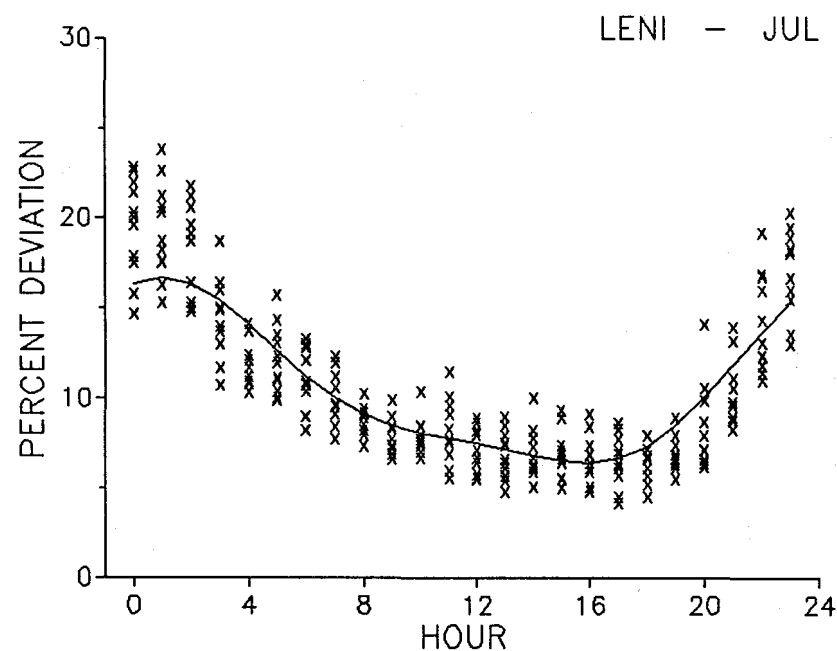
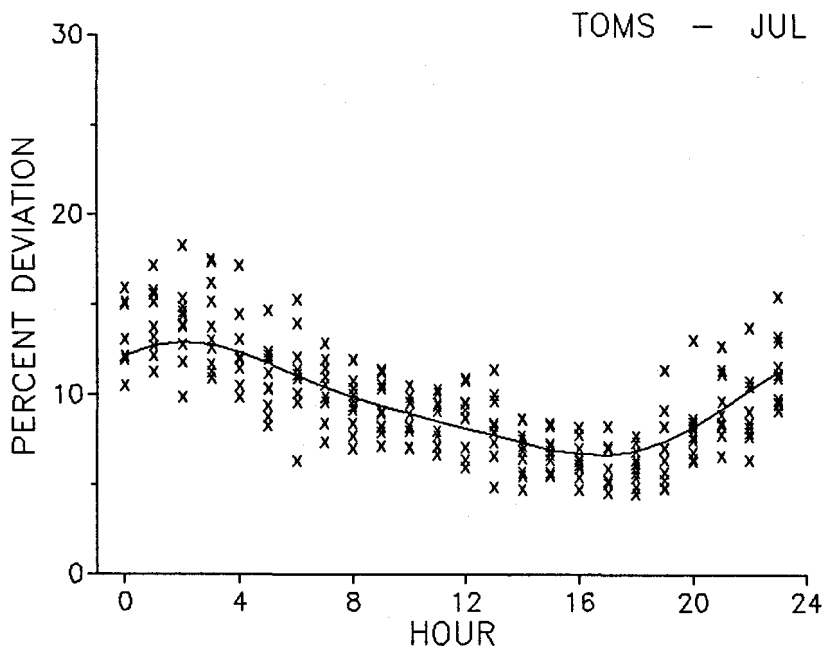
— — LOW SSN



QUIET MAGNETIC

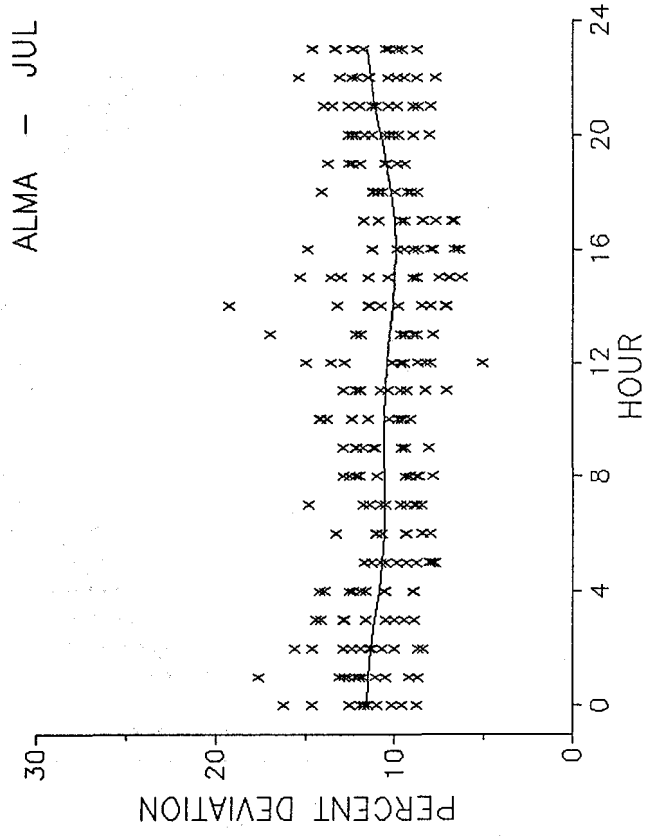
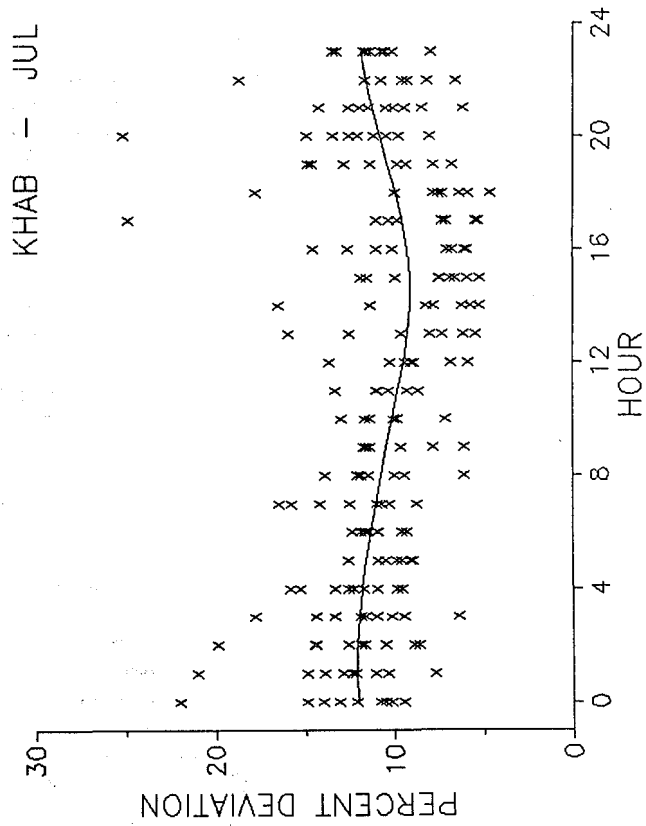
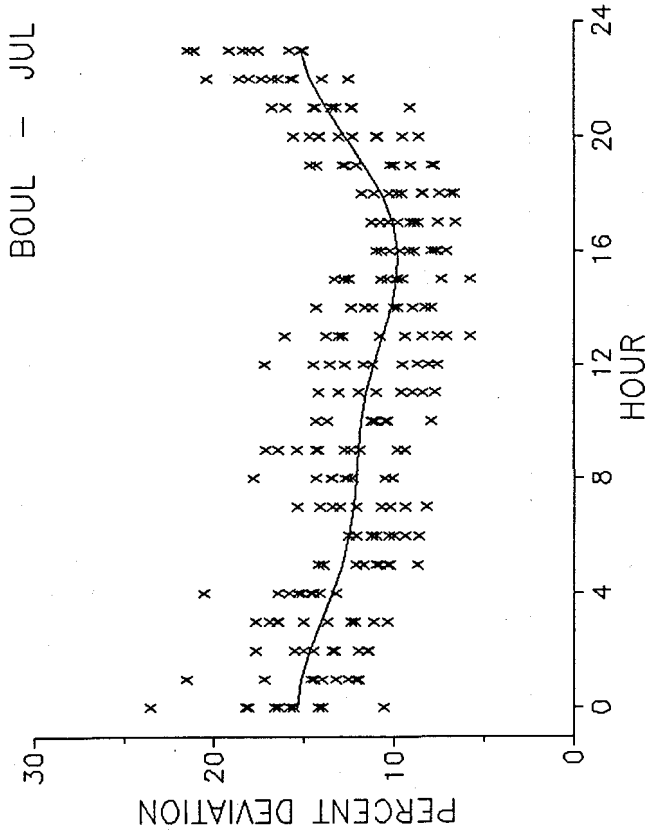
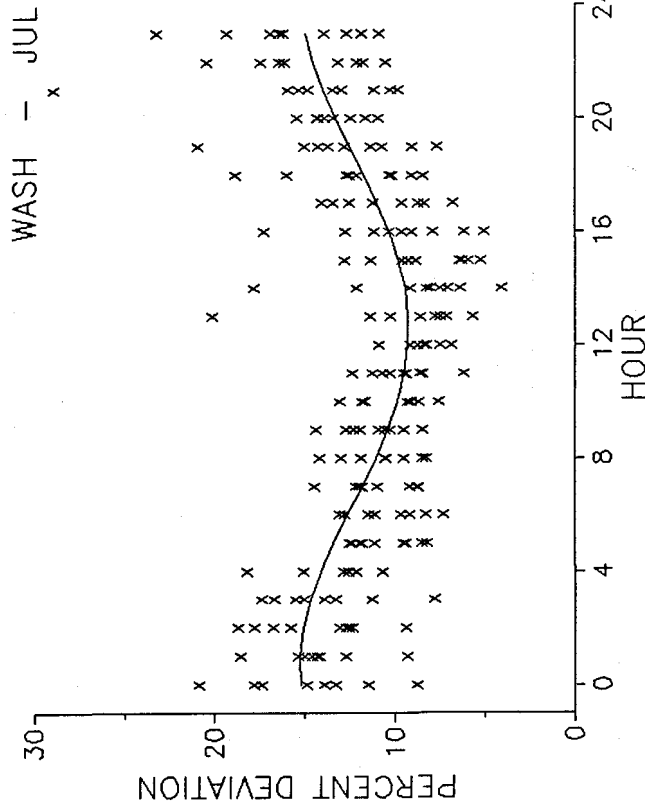
— — LOW SSN

52



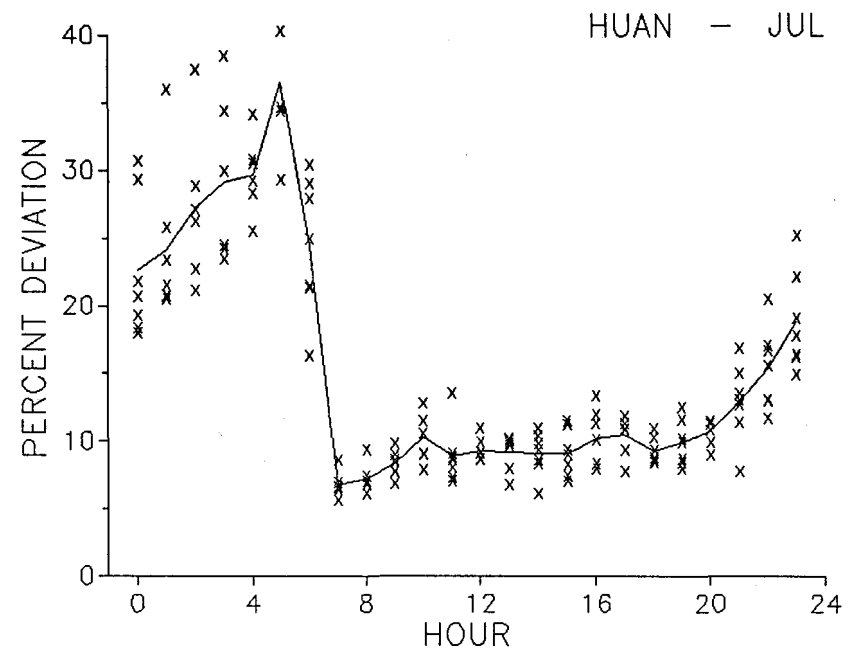
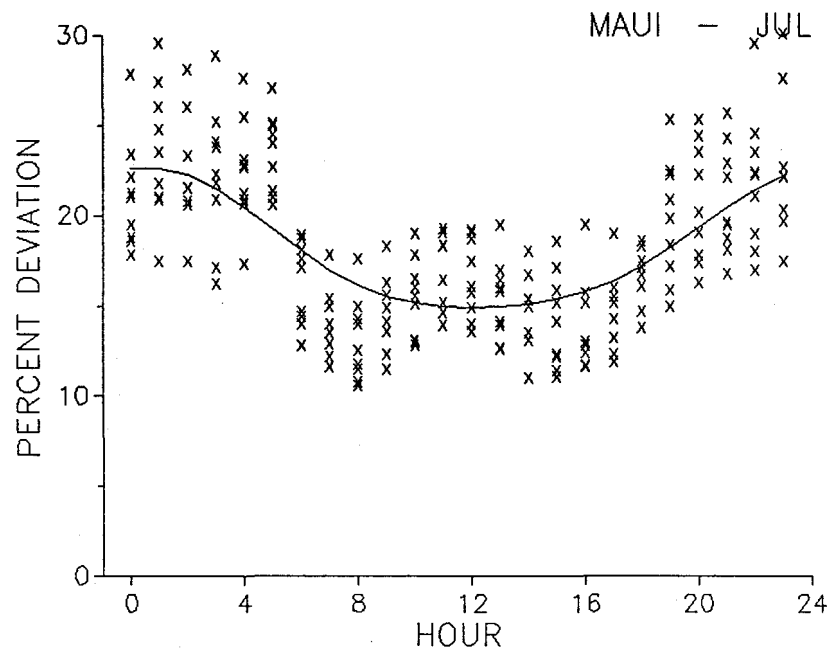
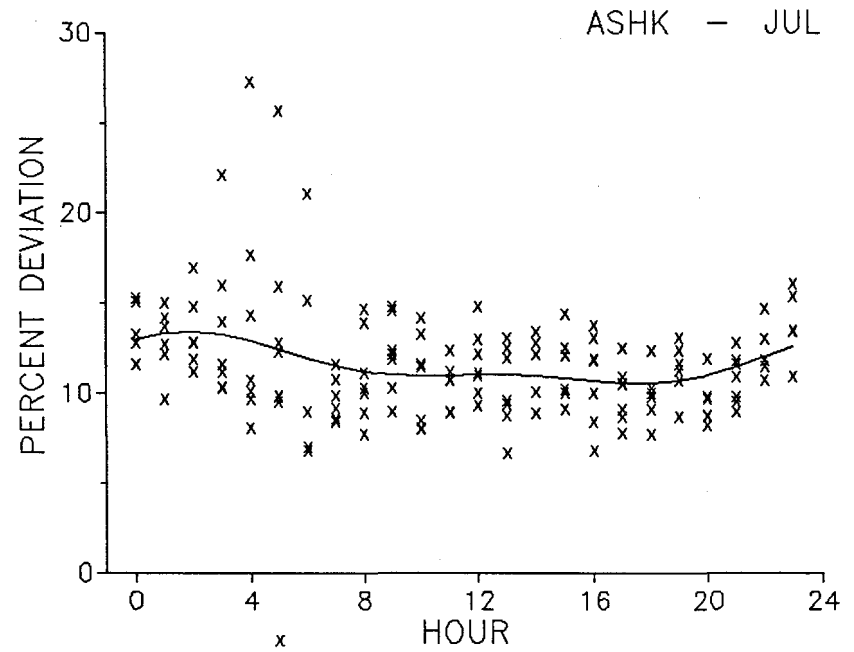
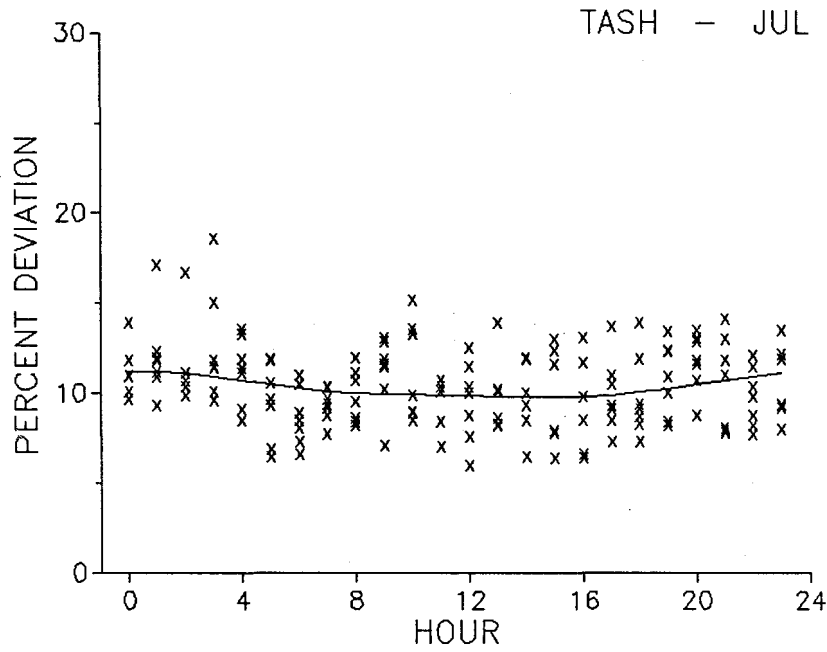
# QUIET MAGNETIC

# --- LOW SSN



QUIET MAGNETIC

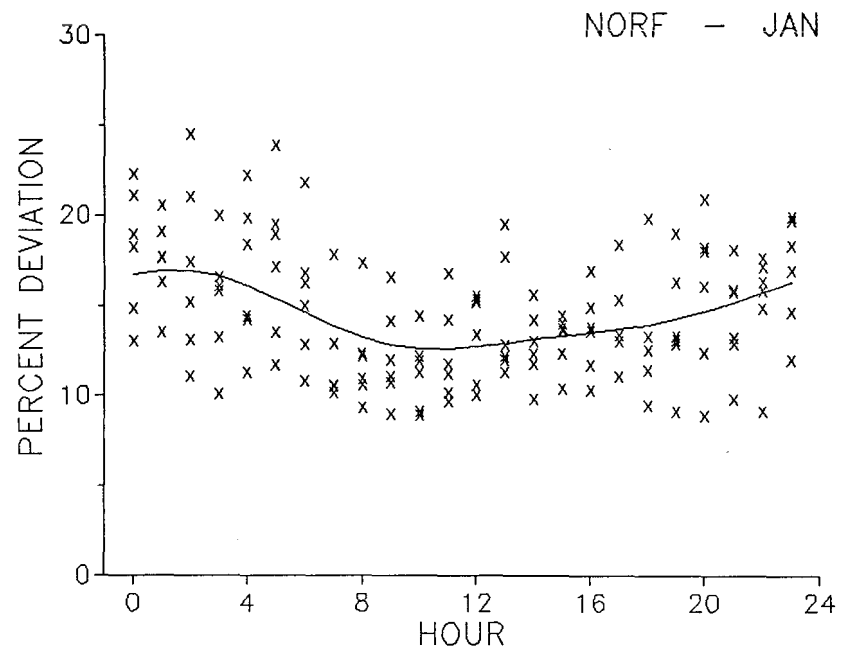
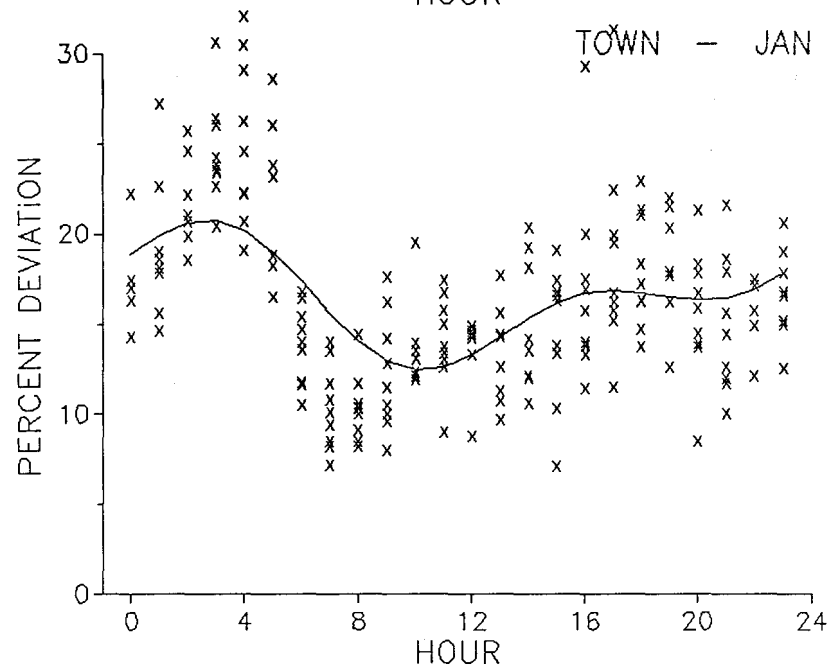
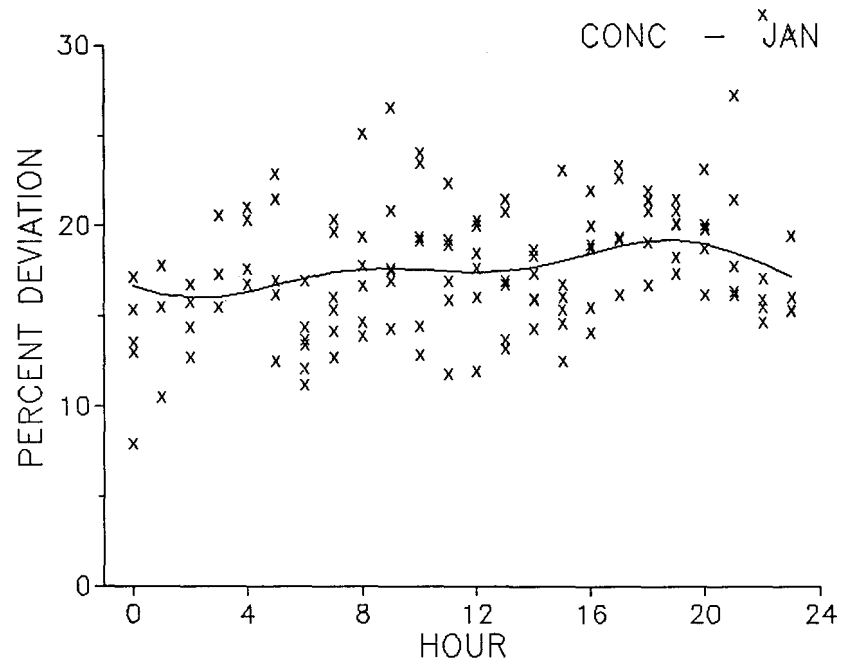
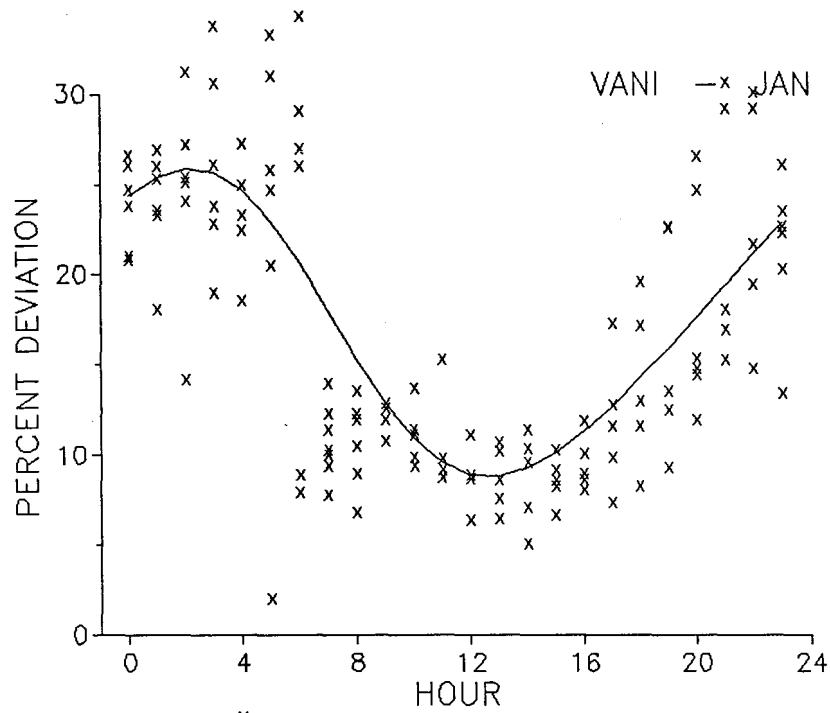
— — LOW SSN



# QUIET MAGNETIC

# — — LOW SSN

55

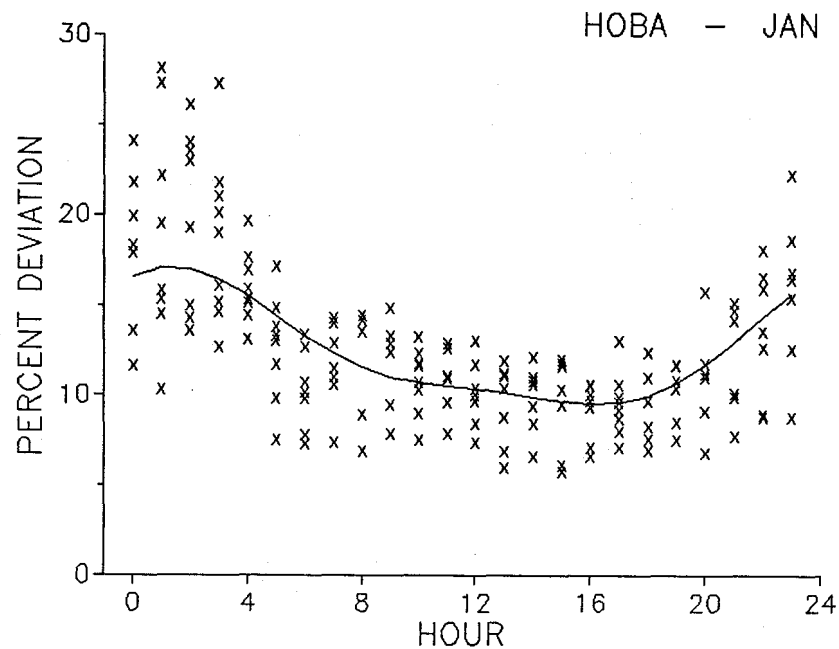
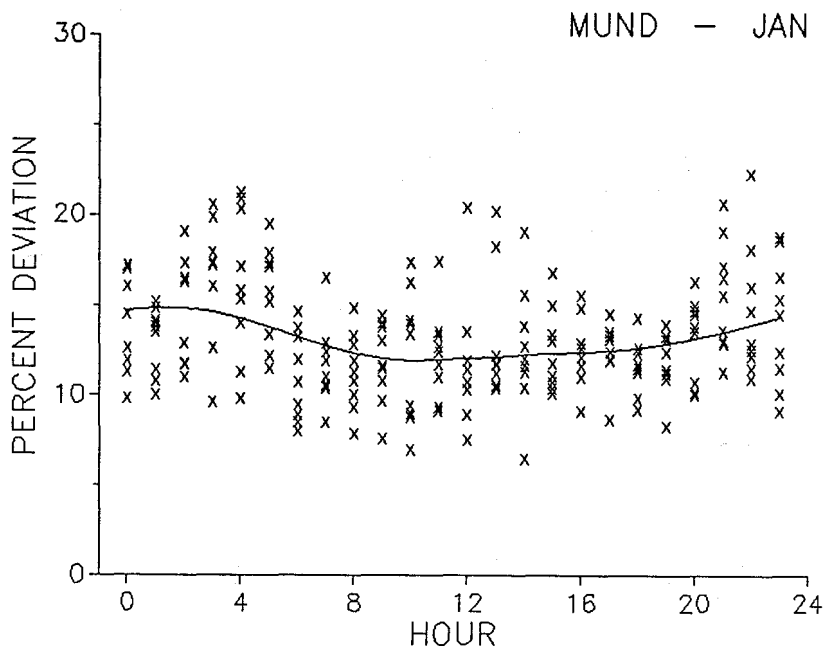
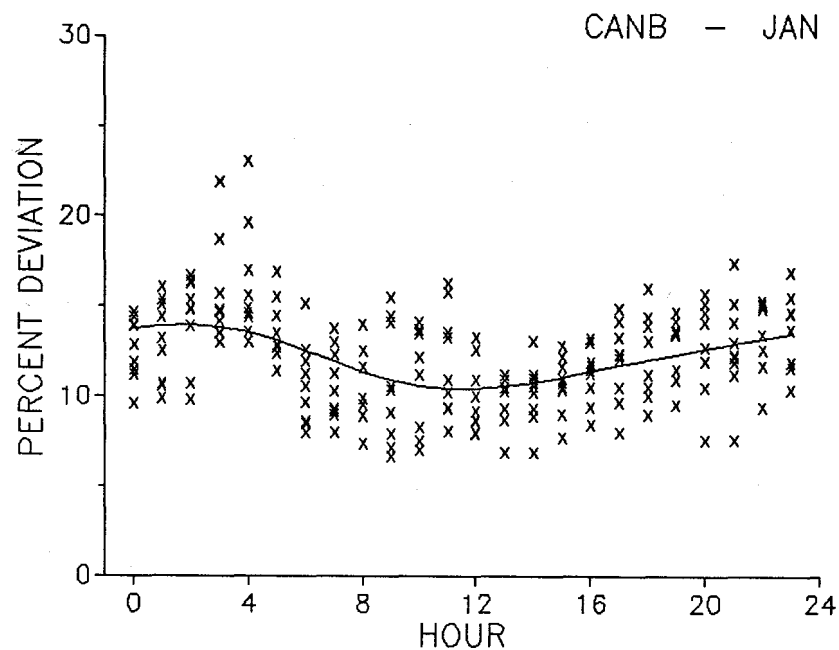
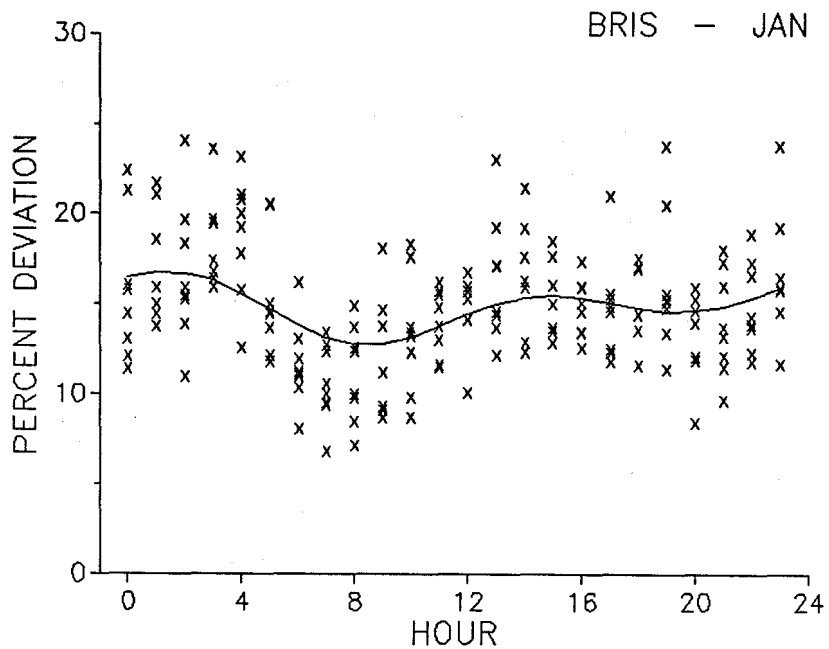


# QUIET MAGNETIC

# LOW SSN

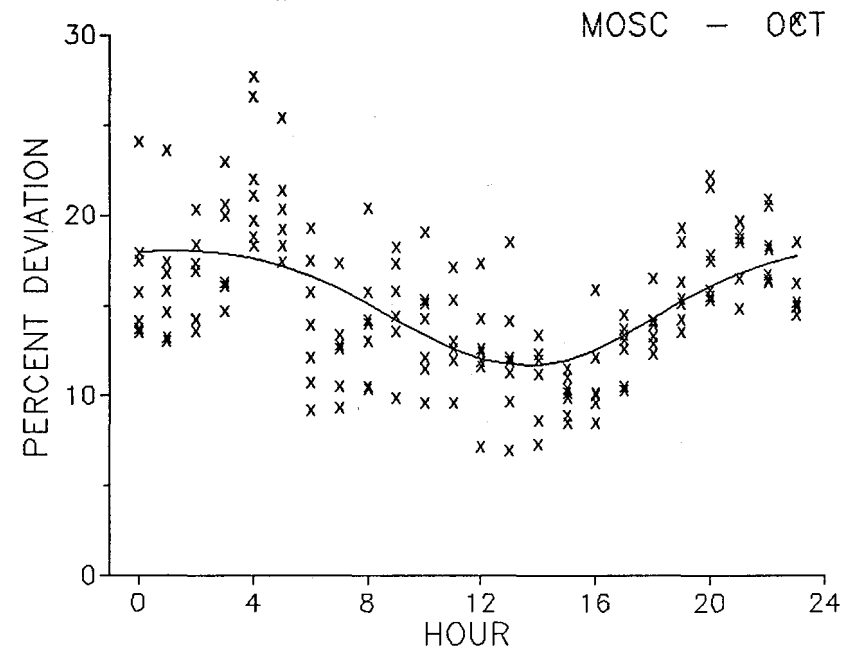
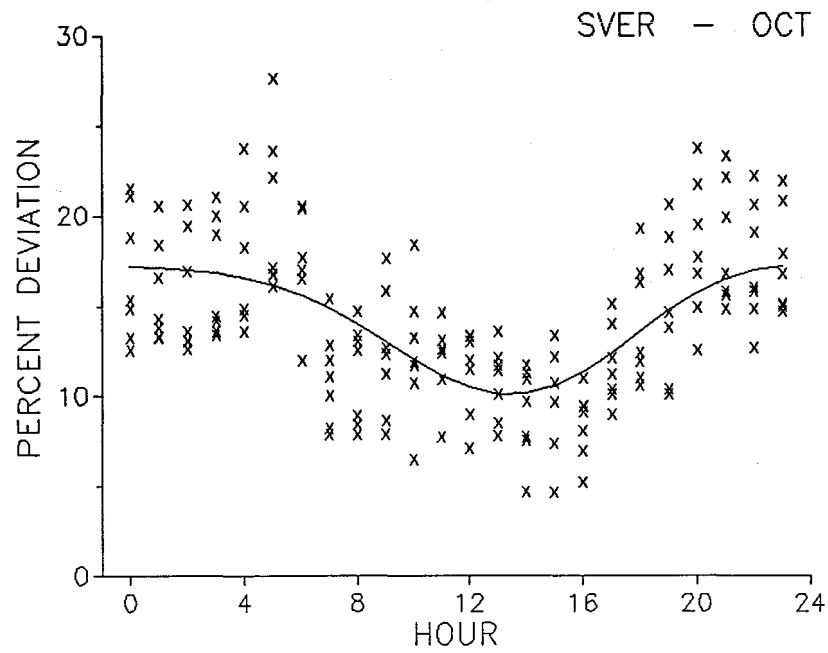
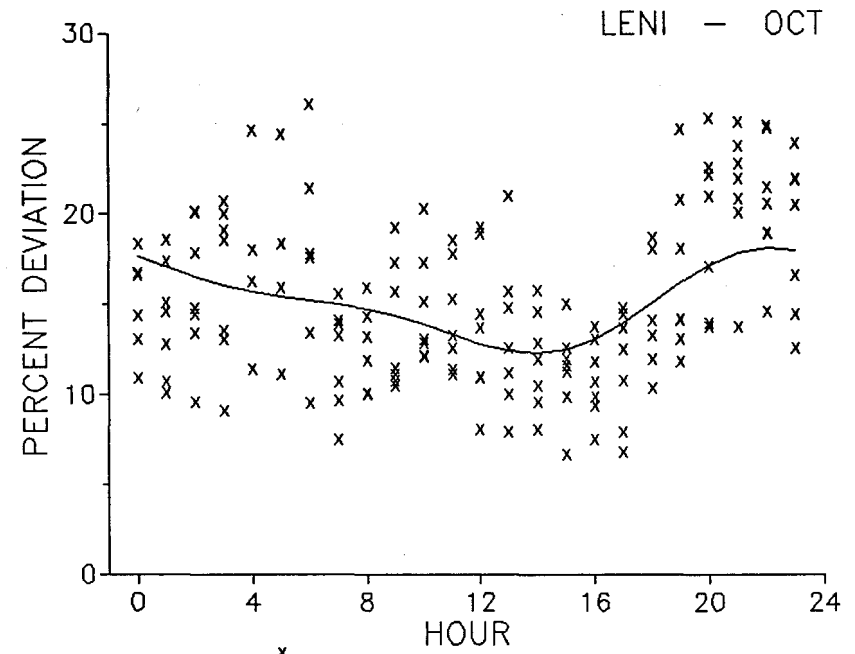
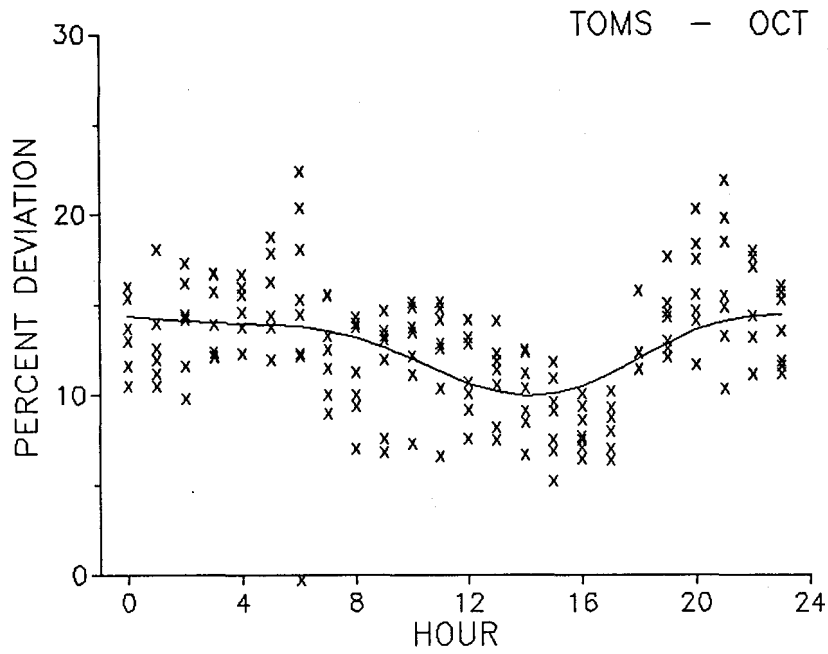
— —

56



QUIET MAGNETIC

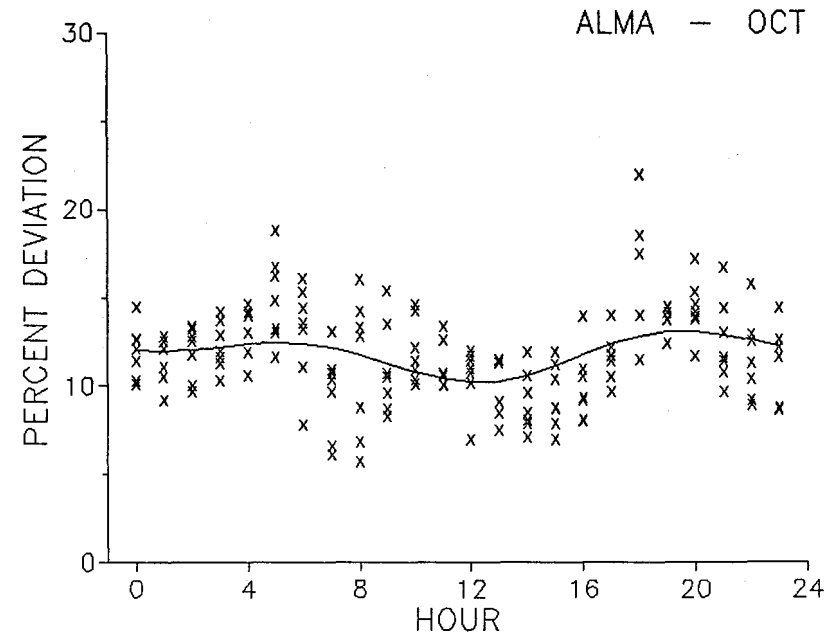
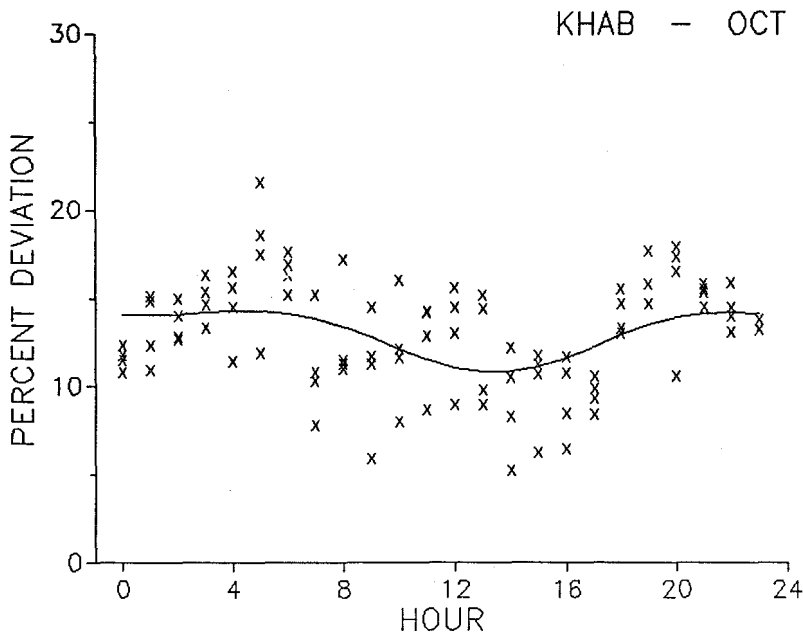
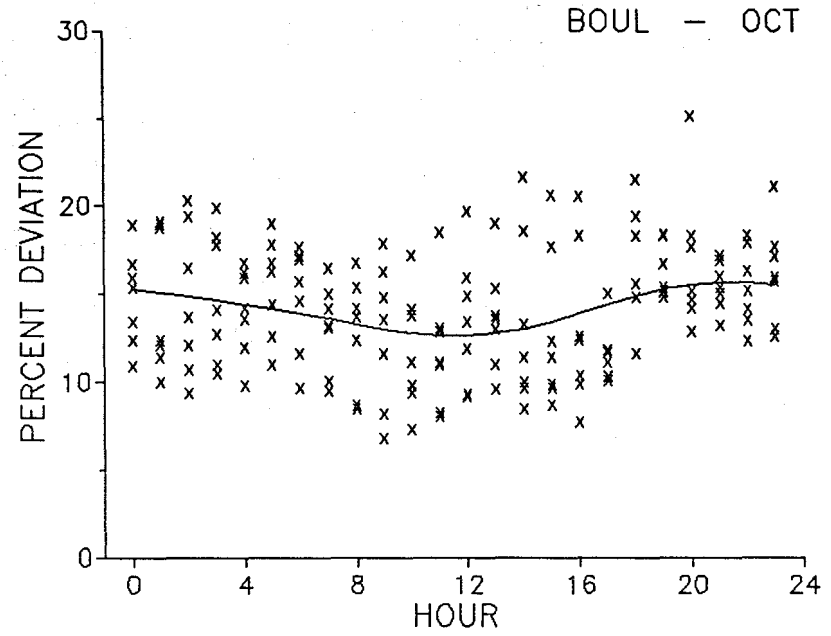
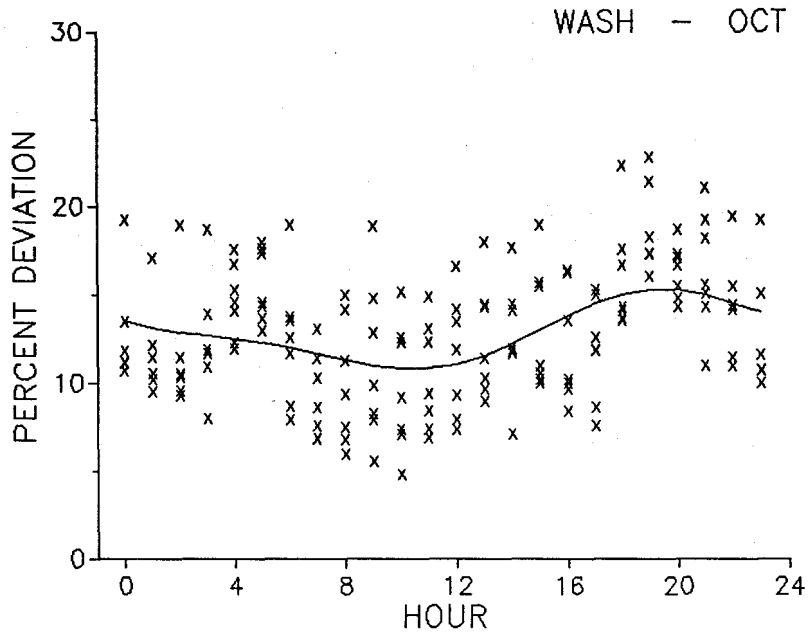
— — LOW SSN



QUIET MAGNETIC

— — LOW SSN

58

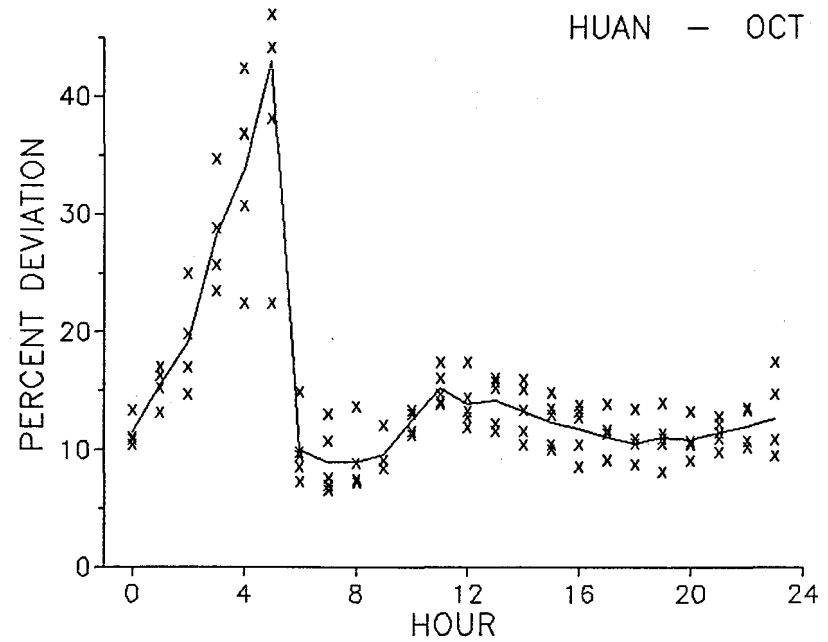
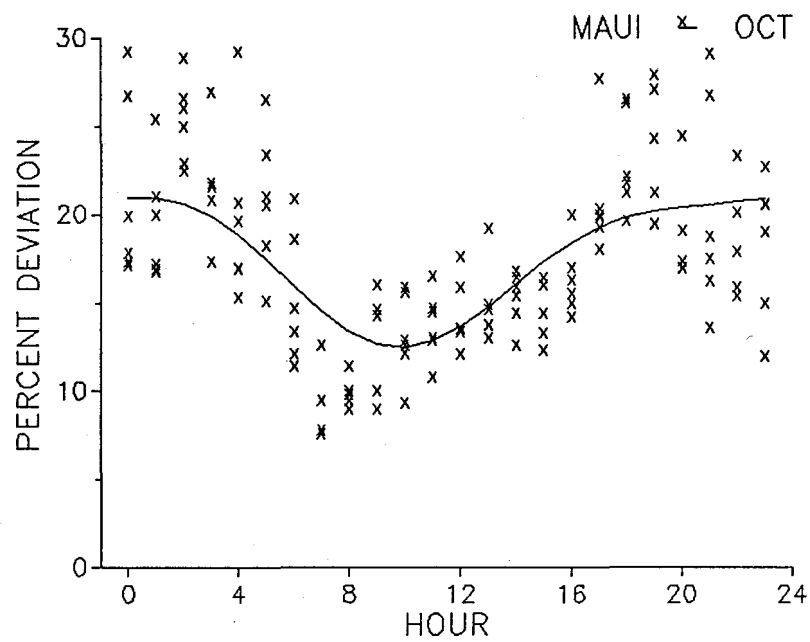
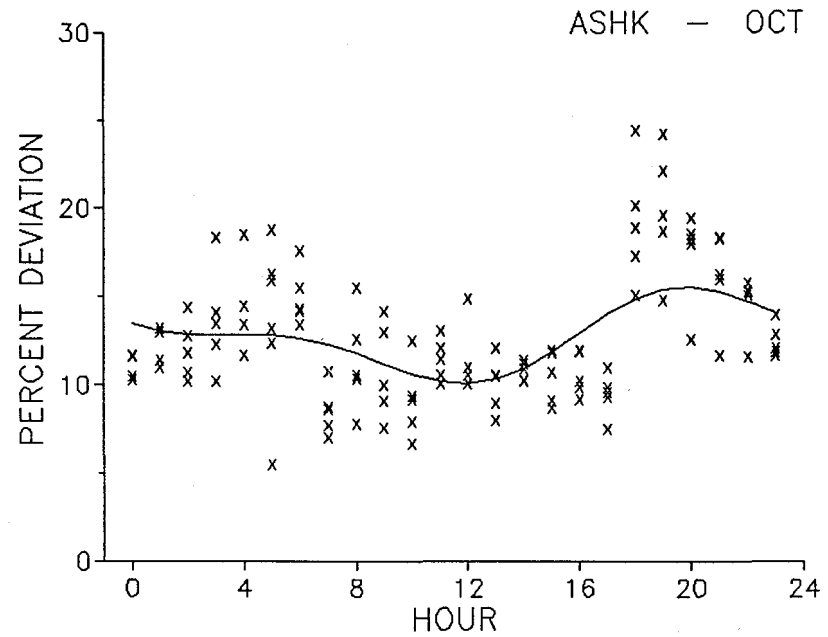
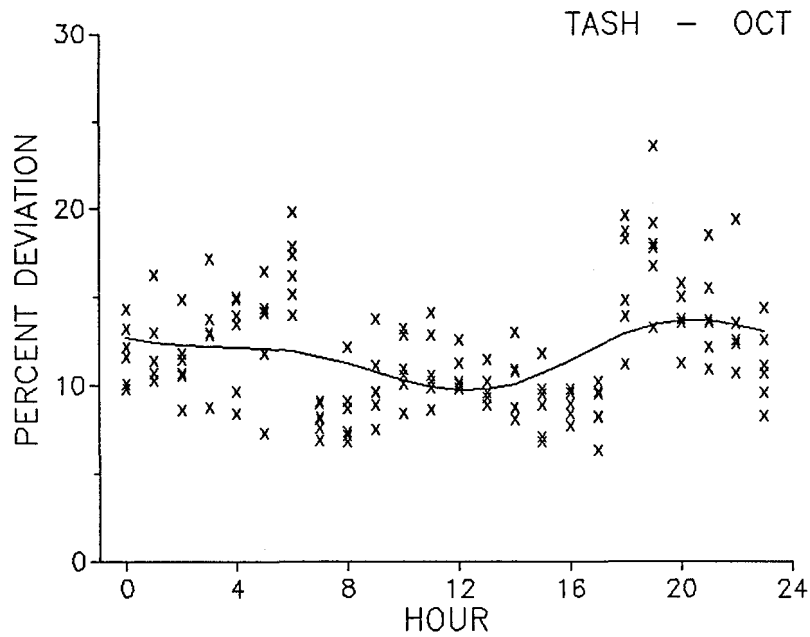




# QUIET MAGNETIC

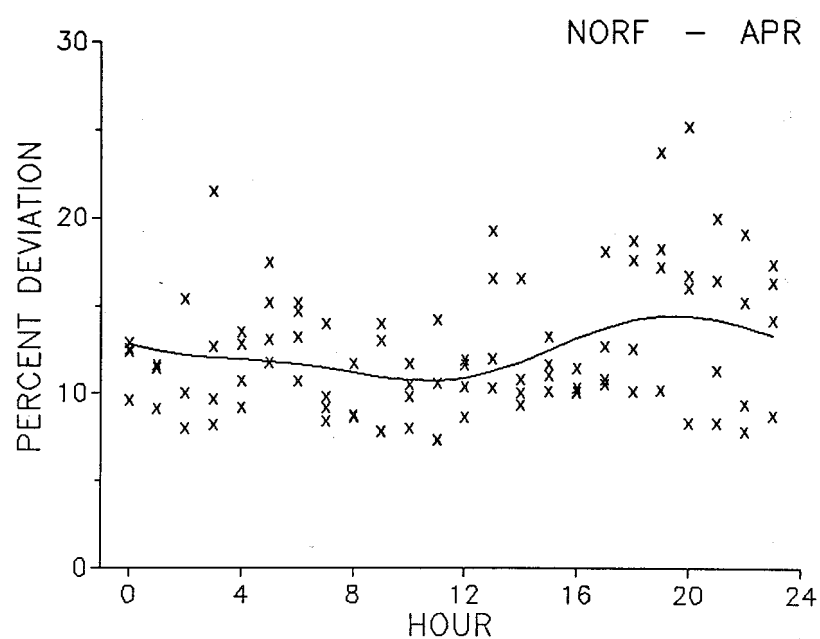
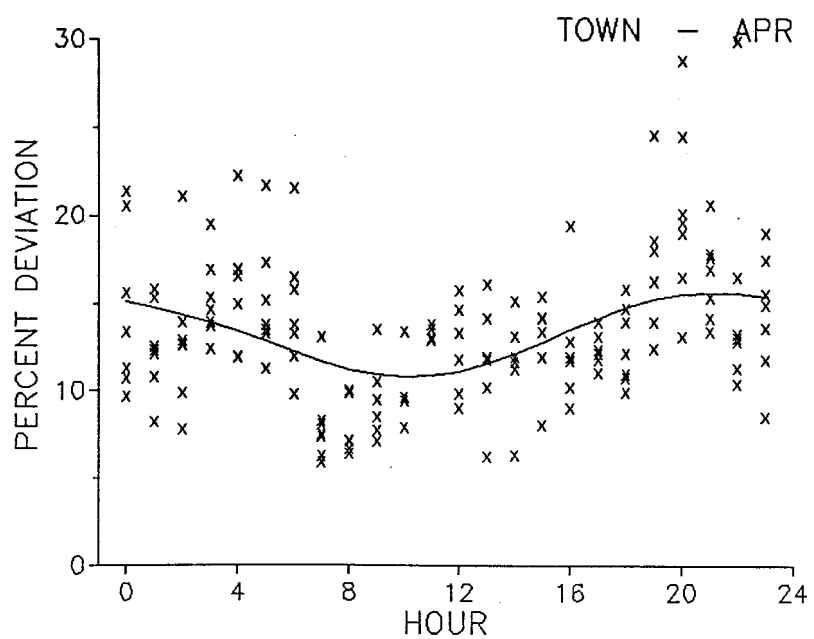
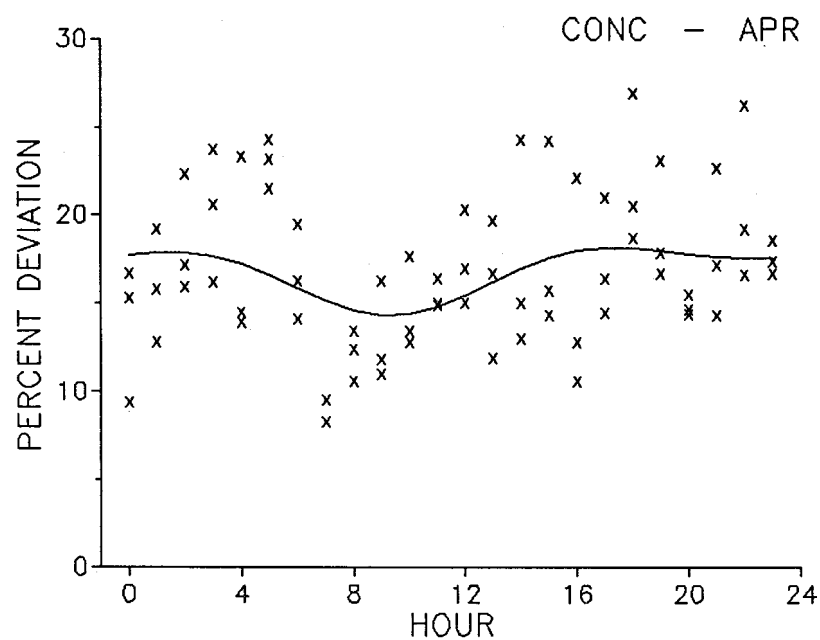
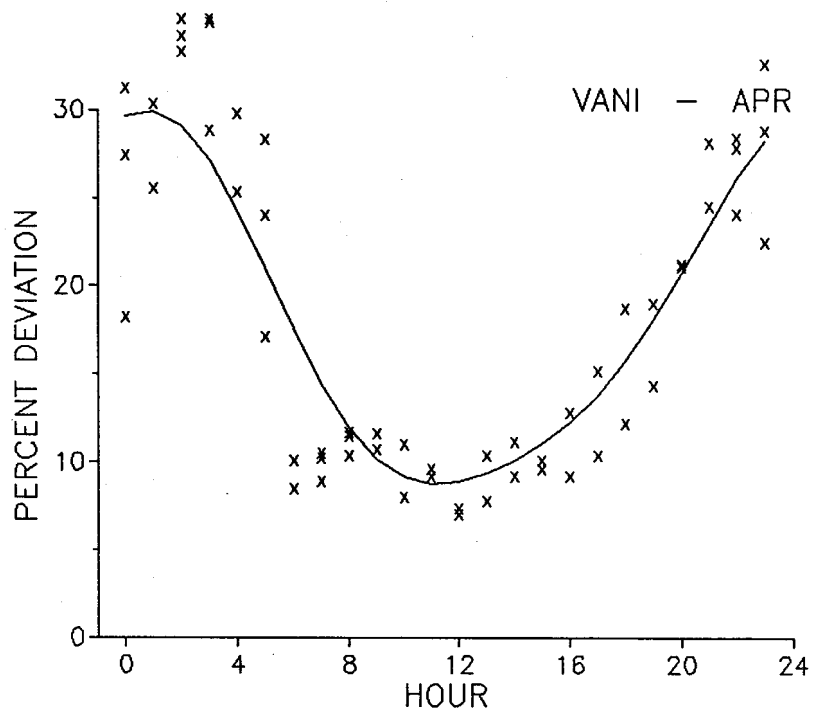
# — — LOW SSN

69



QUIET MAGNETIC

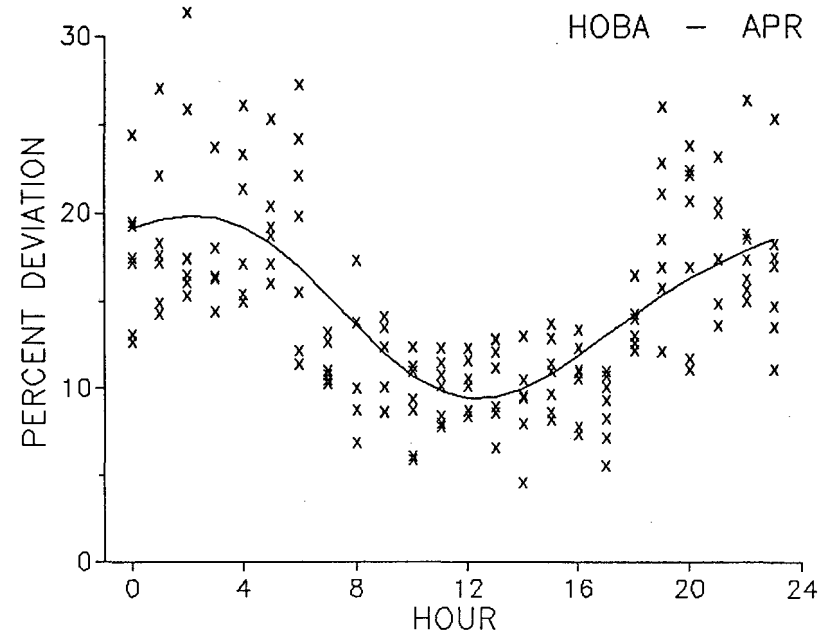
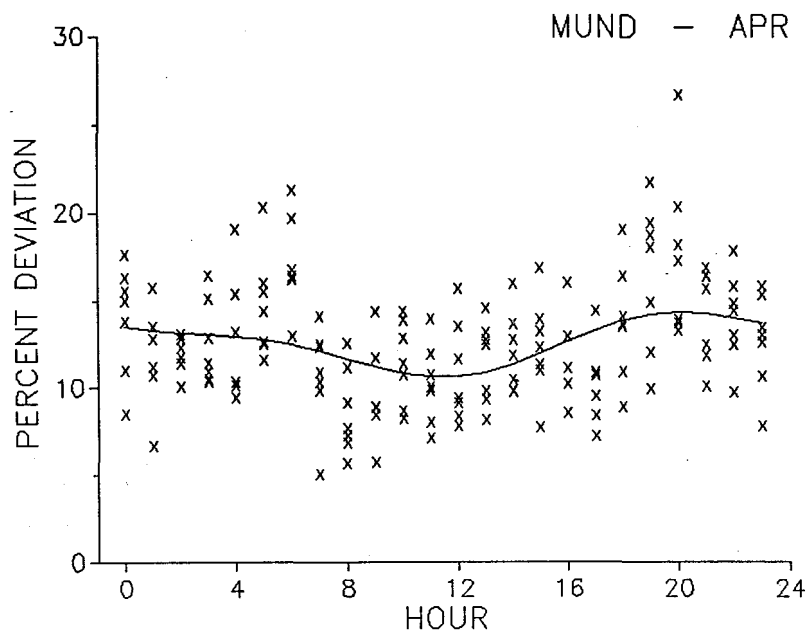
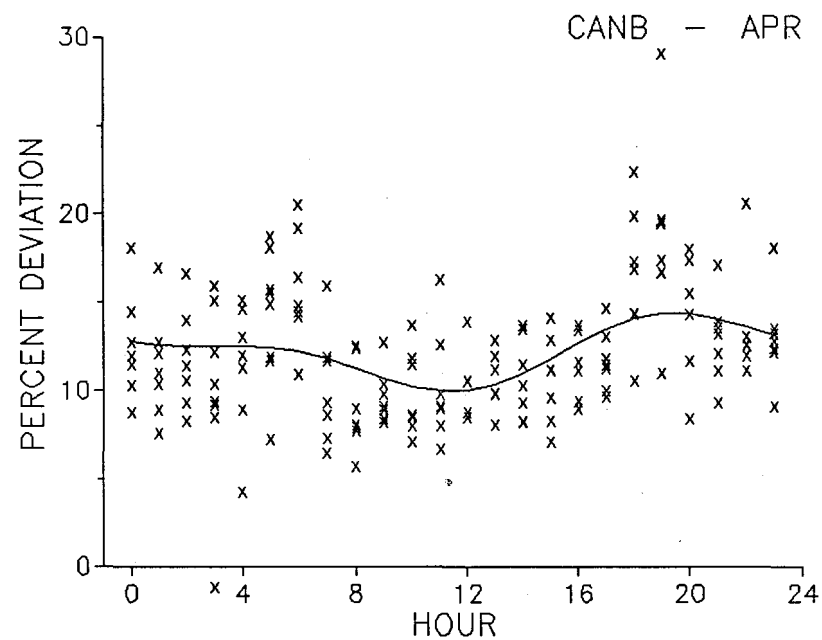
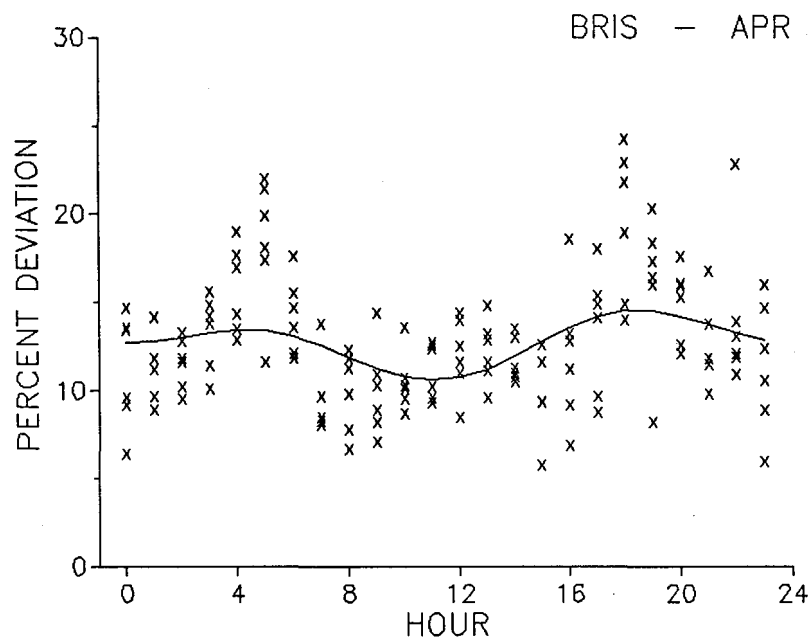
— — LOW SSN



QUIET MAGNETIC

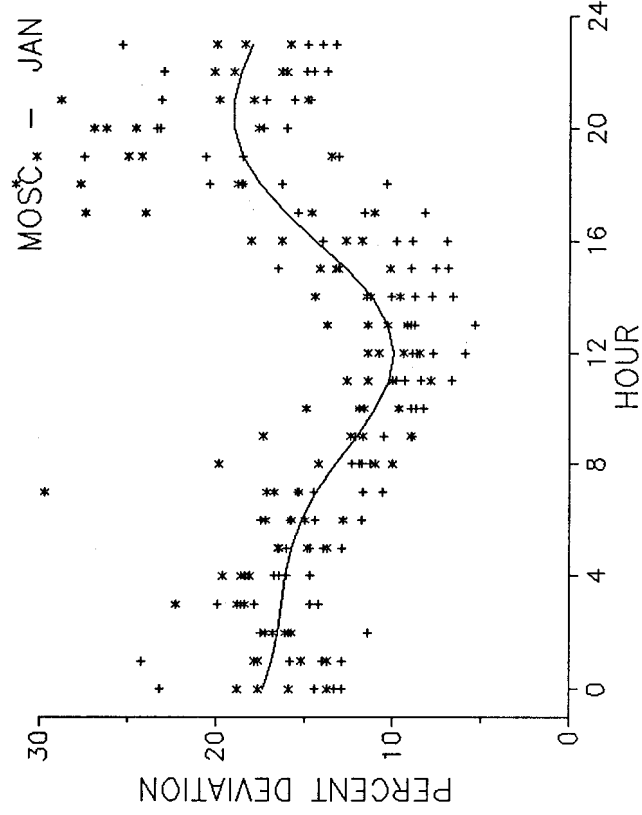
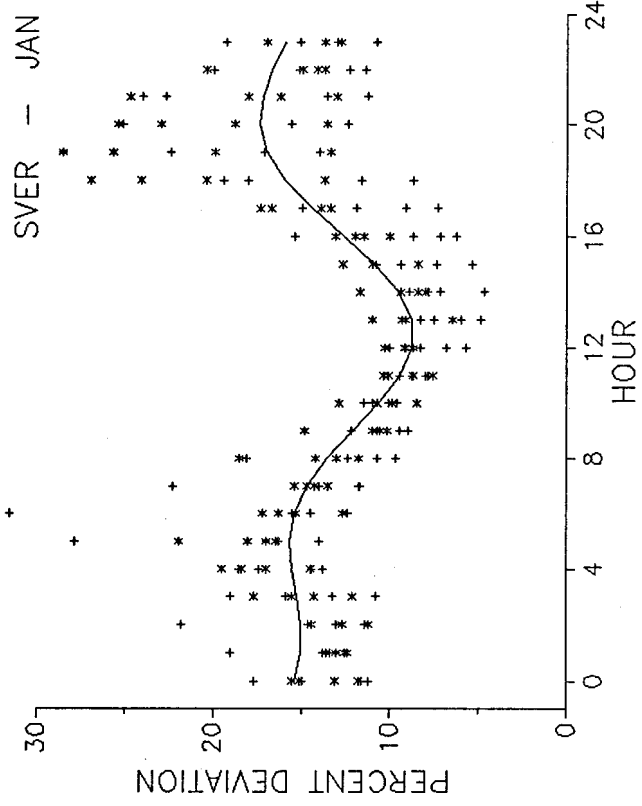
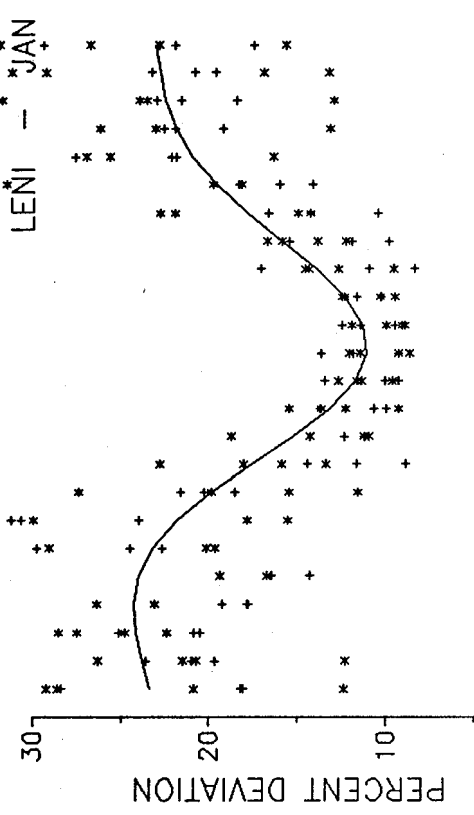
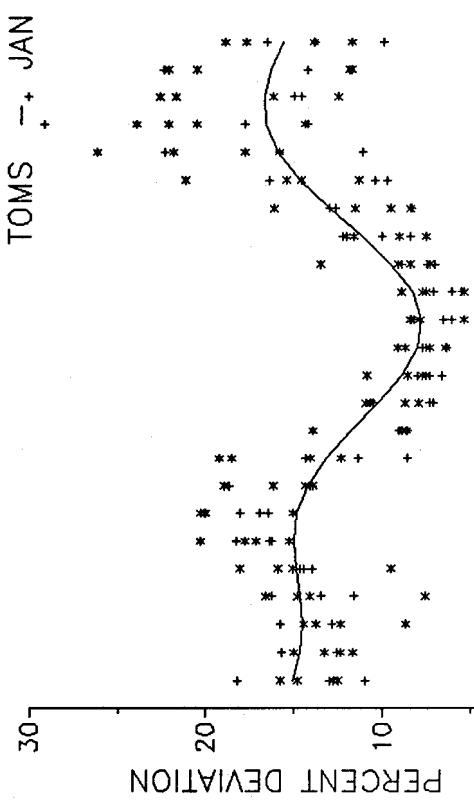
— — LOW SSN

19



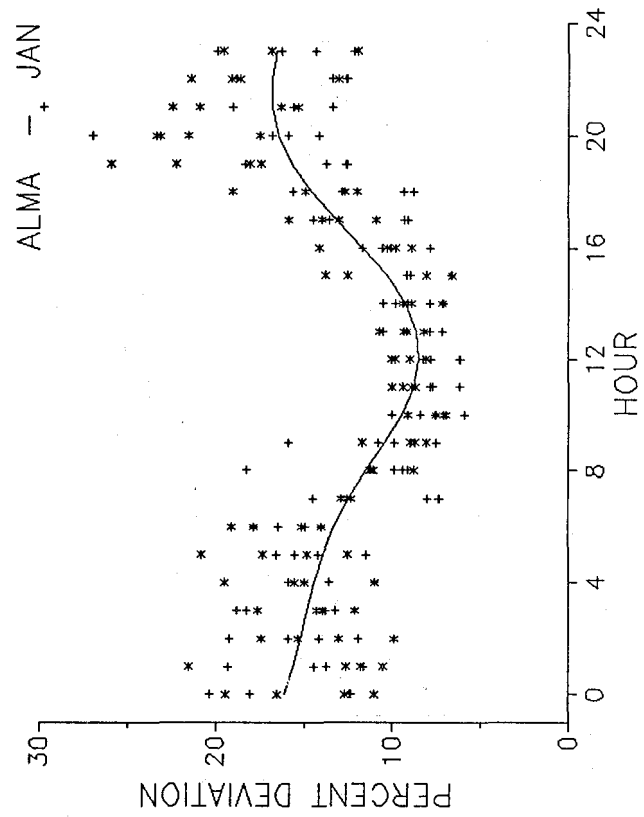
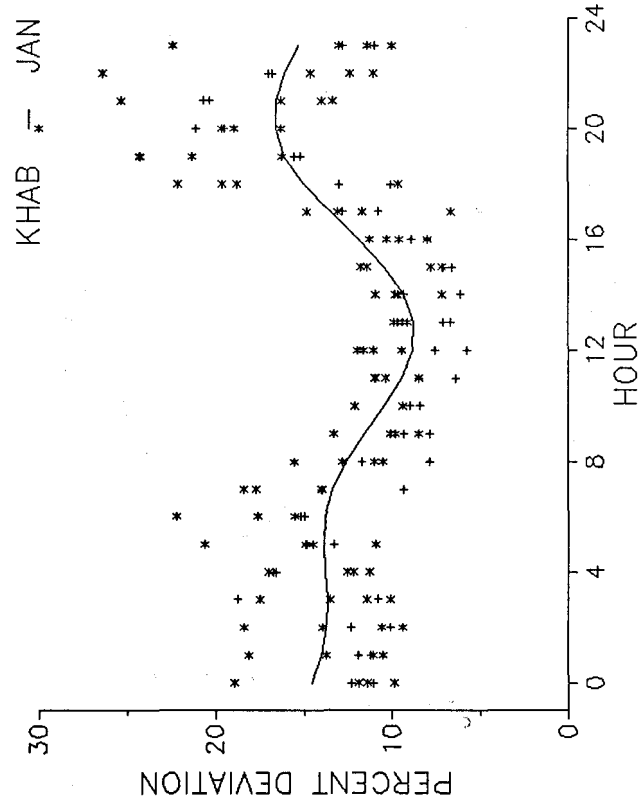
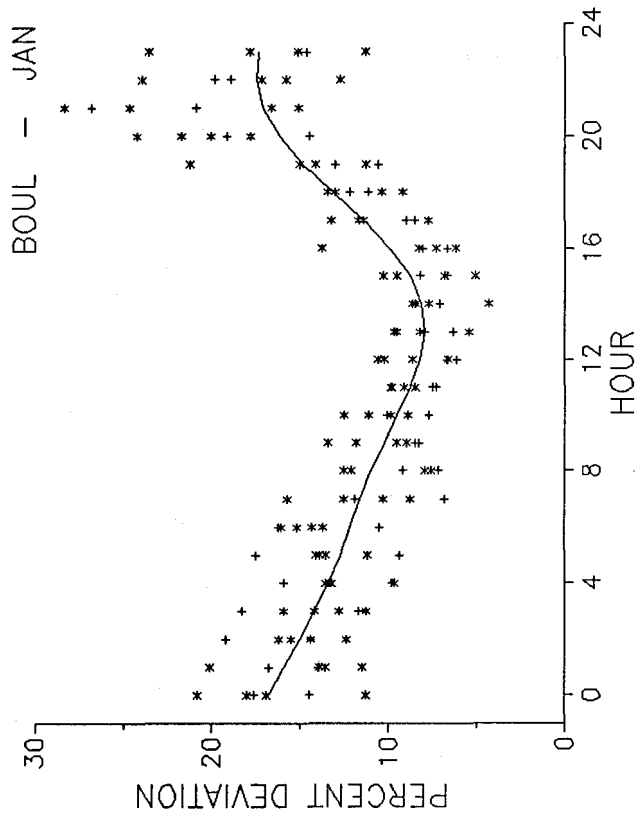
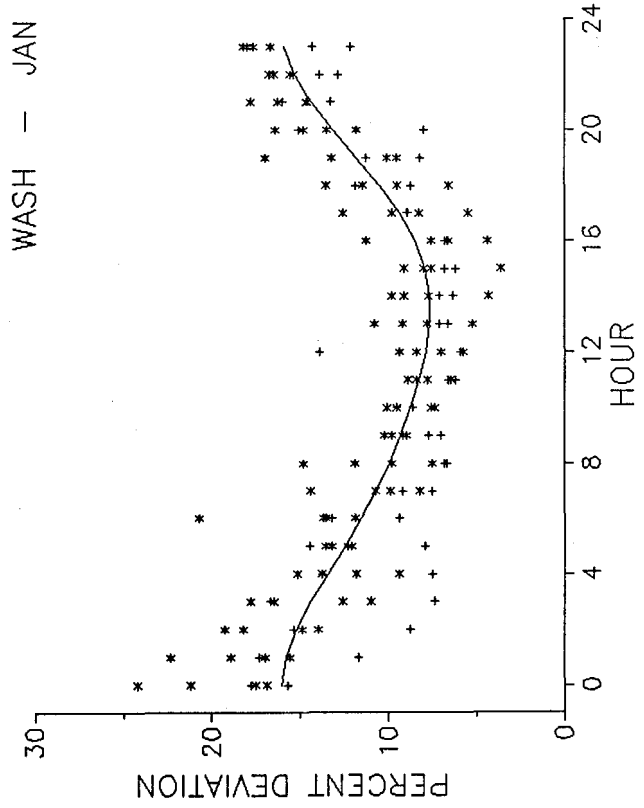
QUIET MAGNETIC

--- HIGH SSN



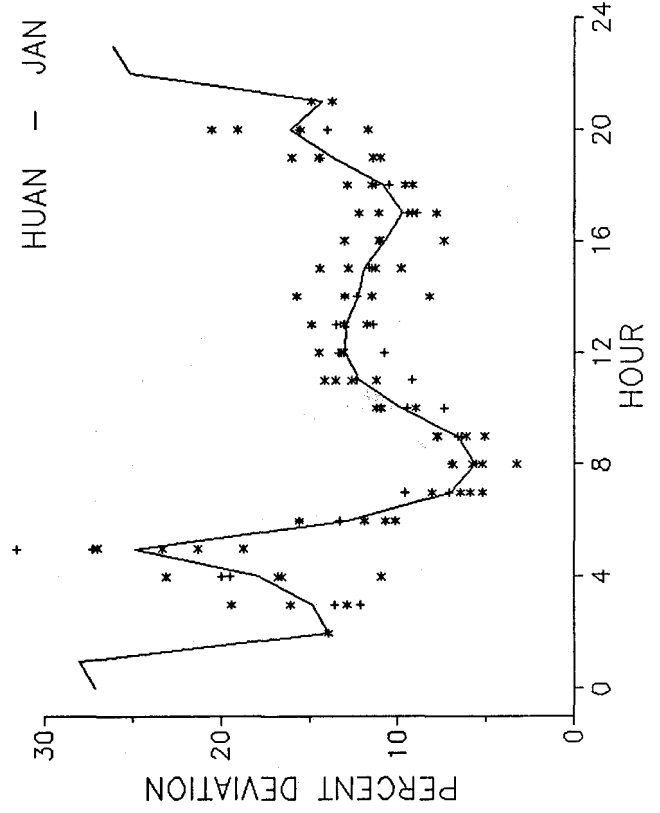
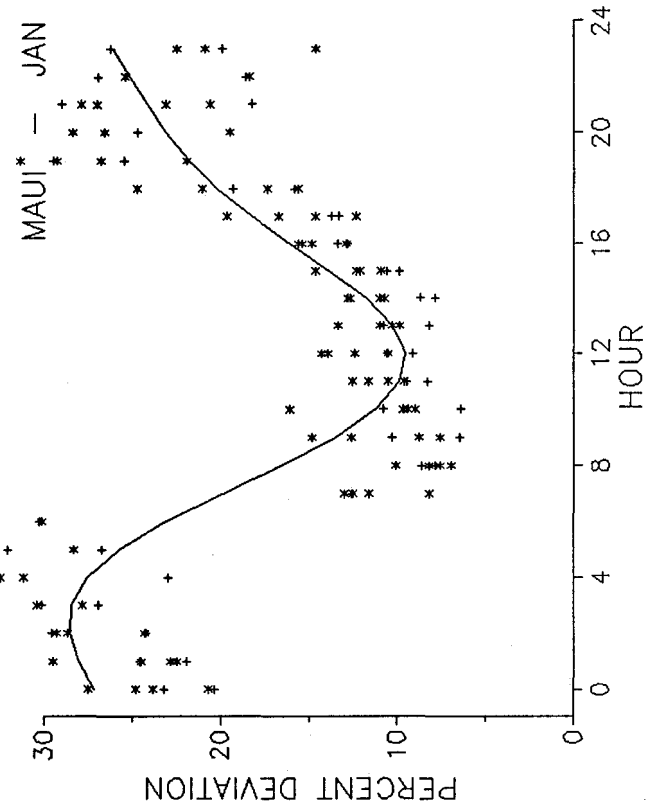
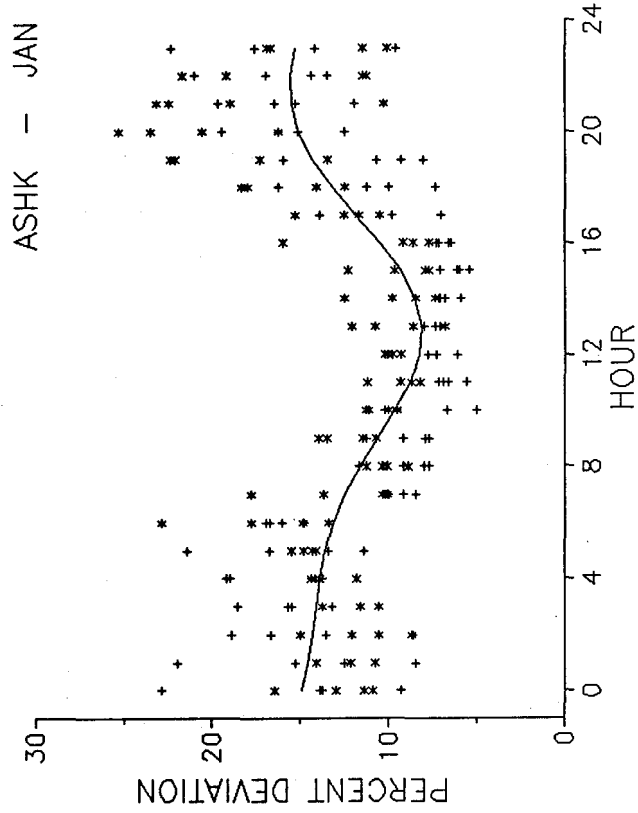
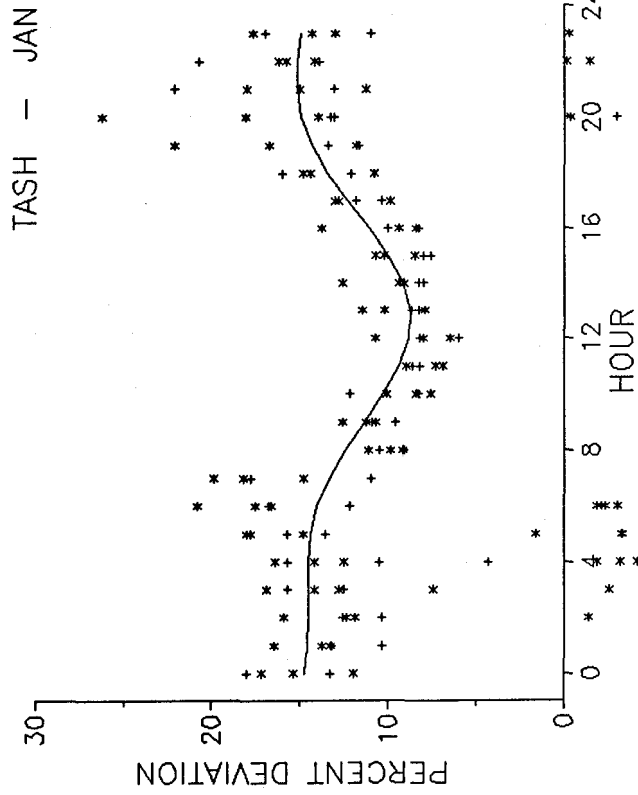
QUIET MAGNETIC

--- HIGH SSN



QUIET MAGNETIC

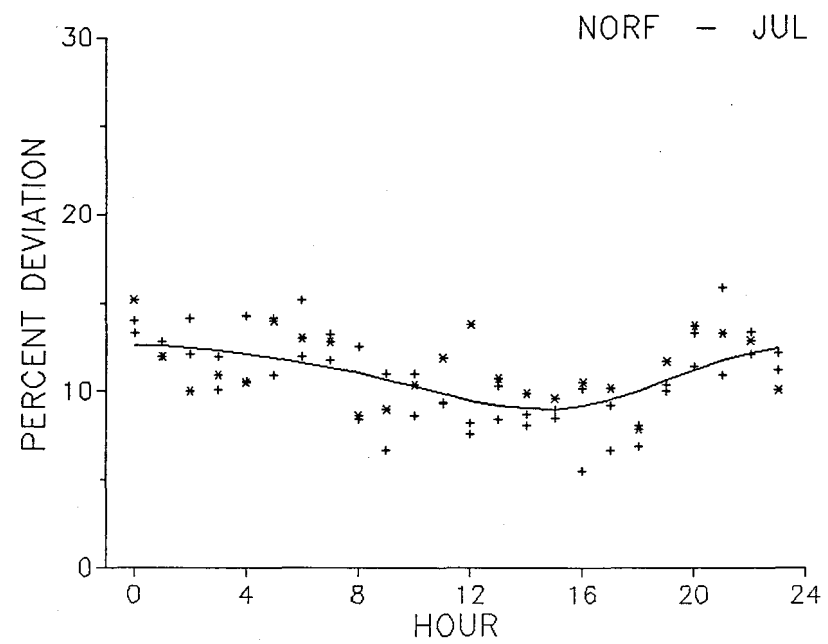
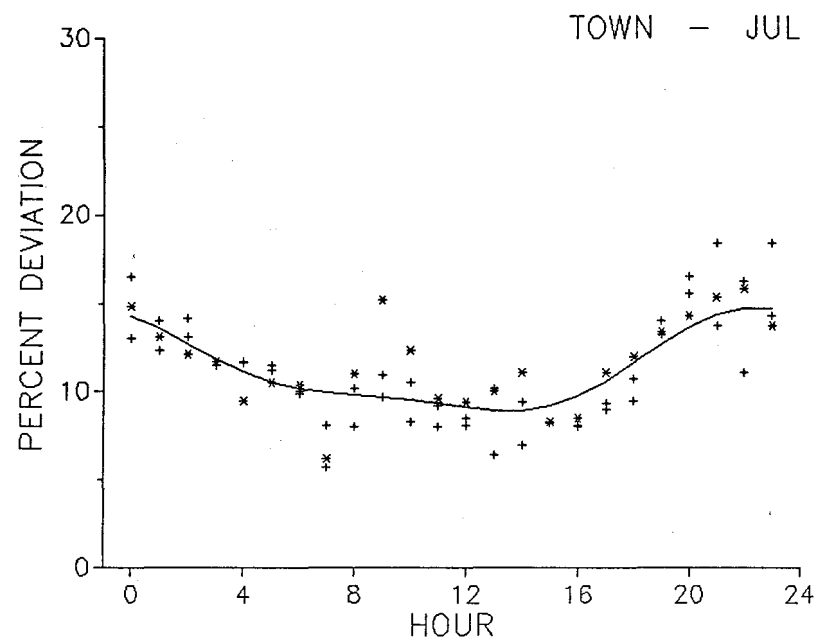
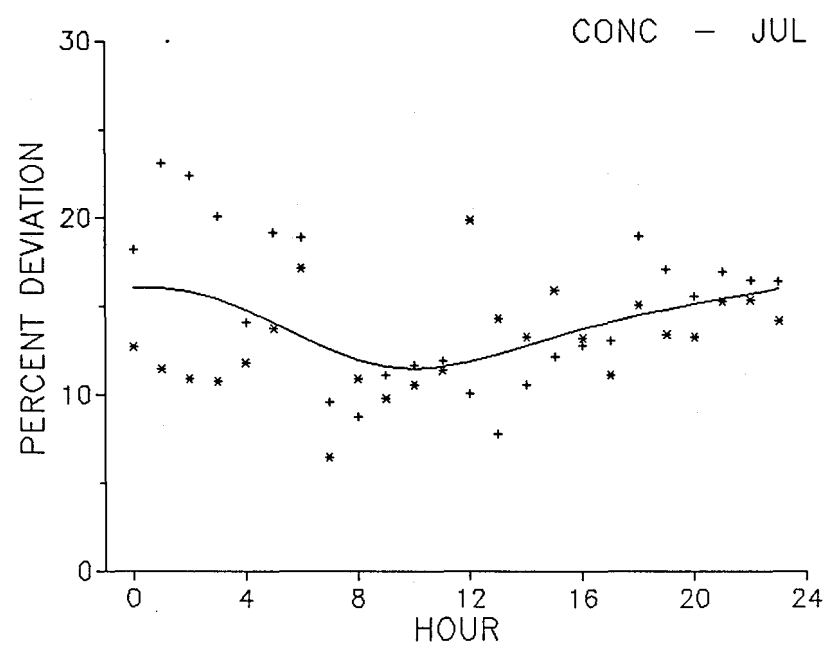
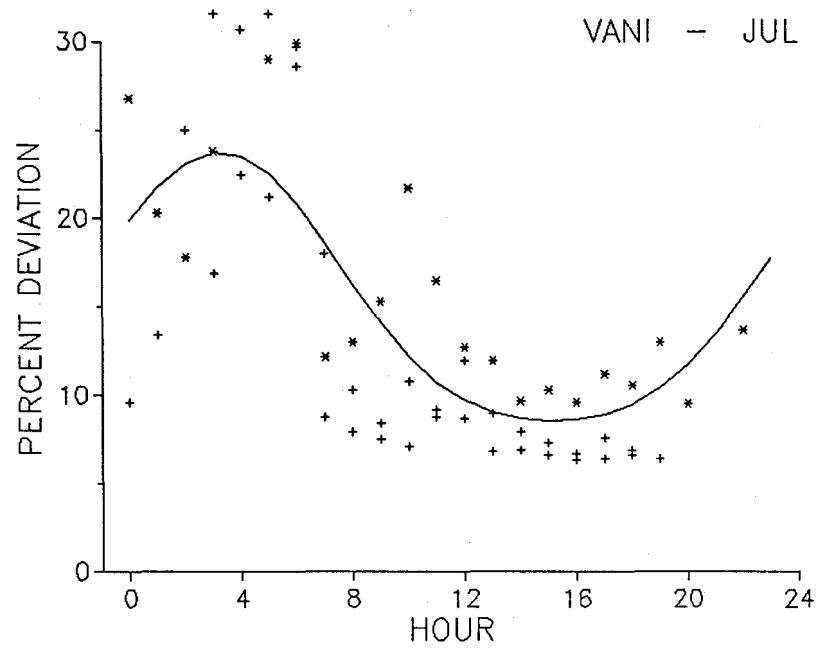
--- HIGH SSN



# QUIET MAGNETIC

# — — HIGH SSN

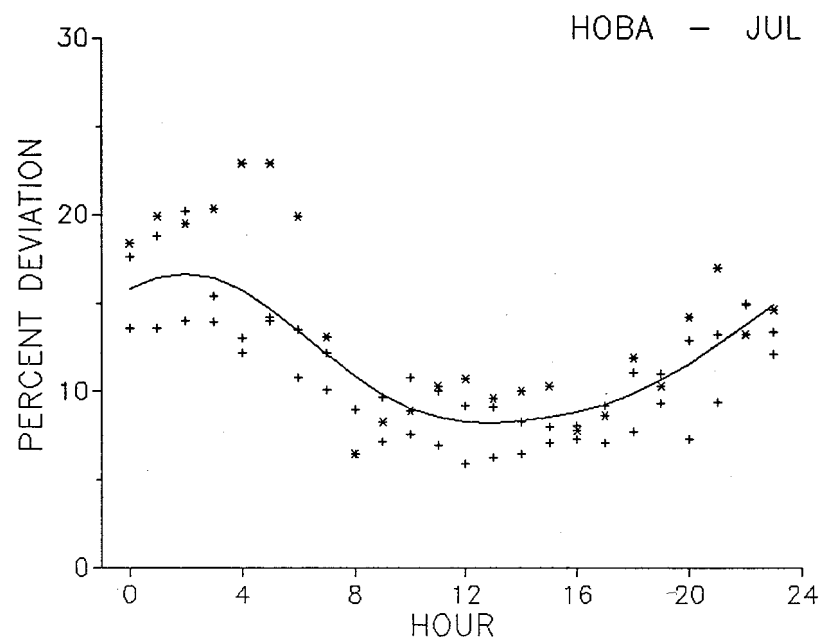
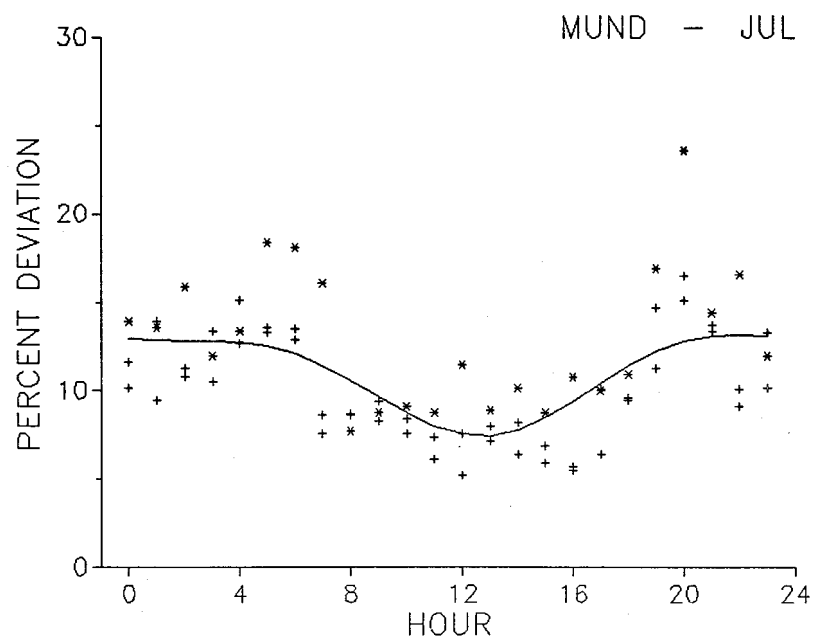
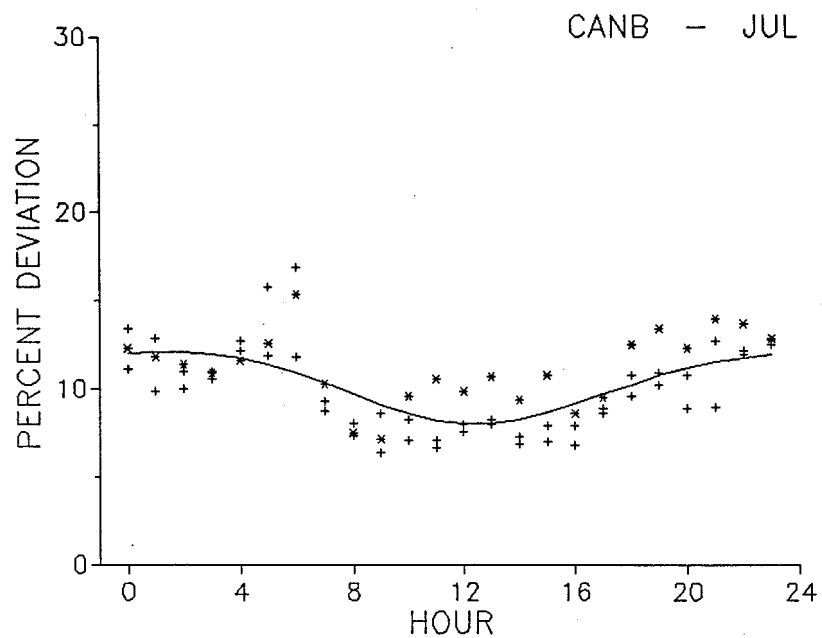
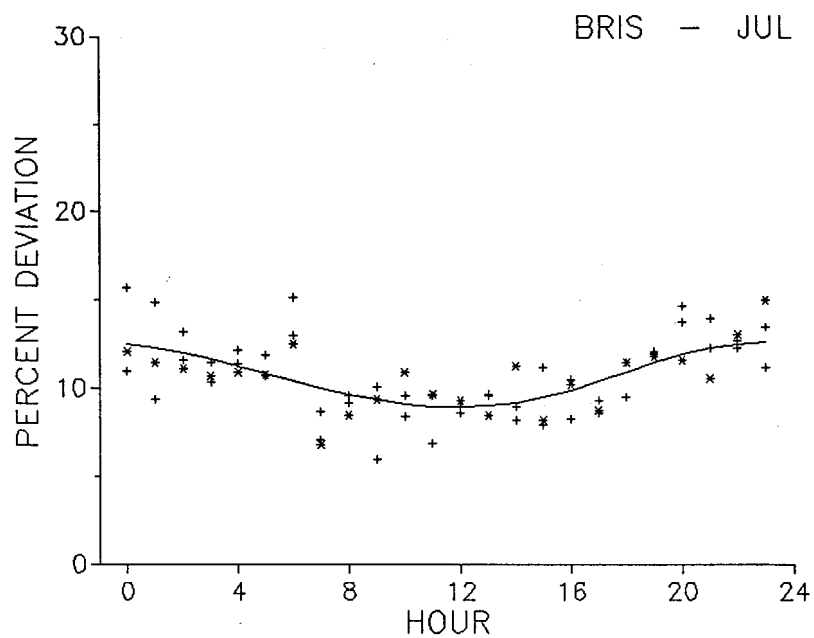
59



QUIET MAGNETIC

-- HIGH SSN

99

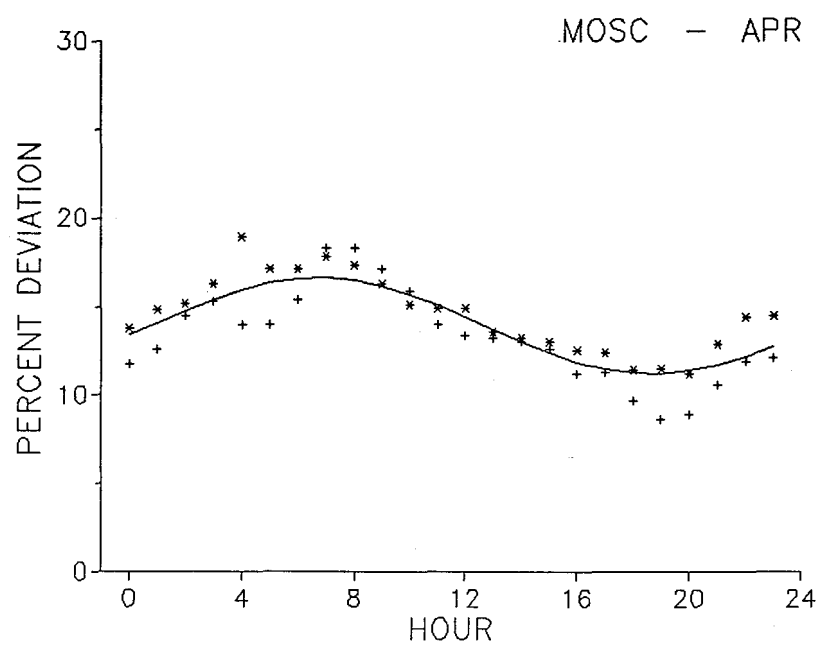
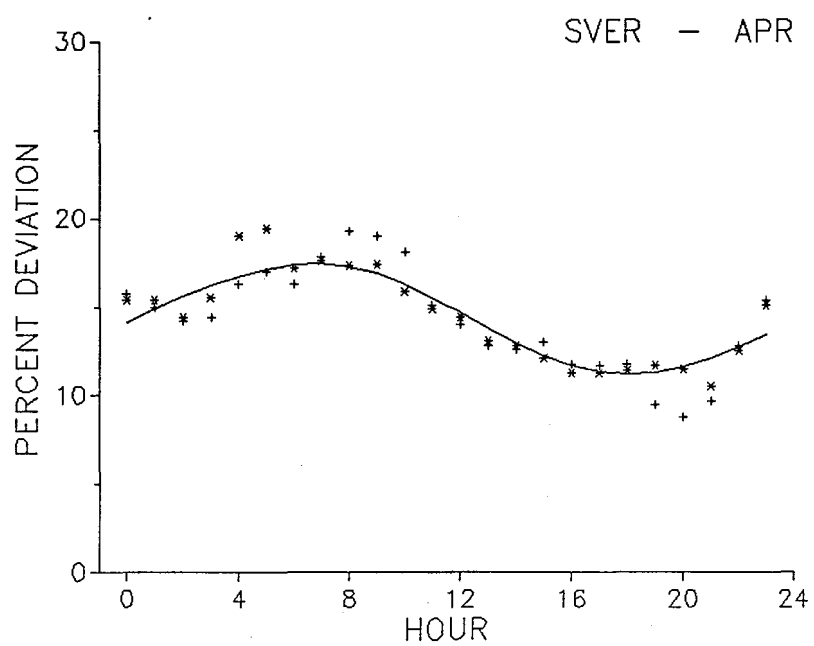
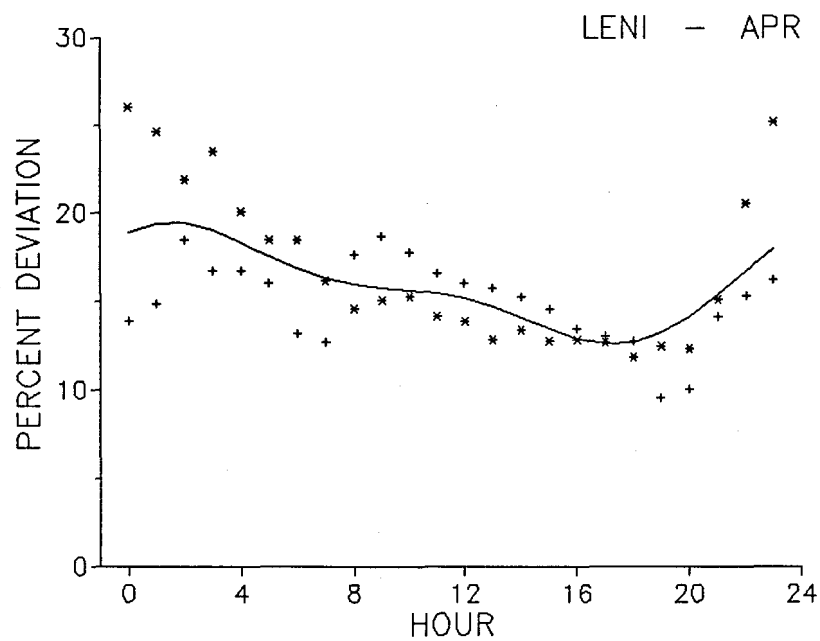
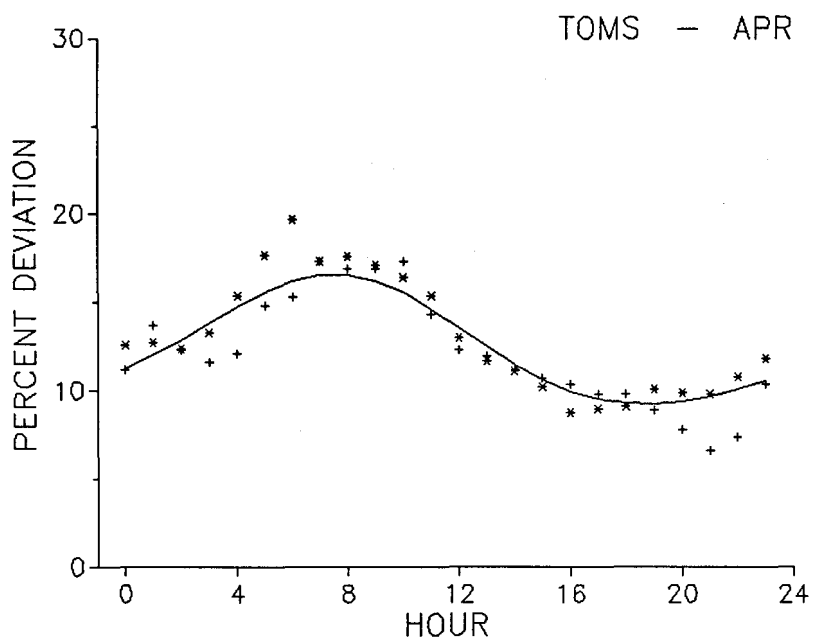




# QUIET MAGNETIC

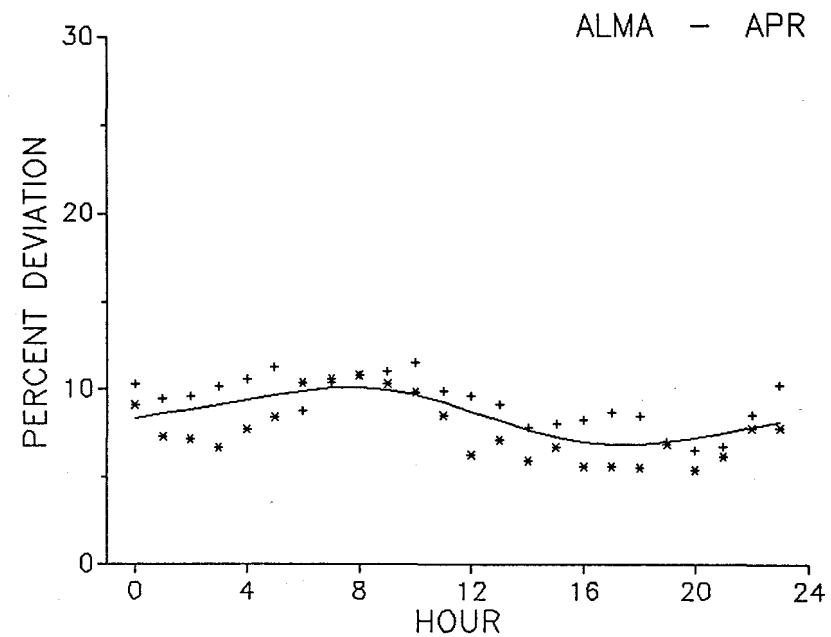
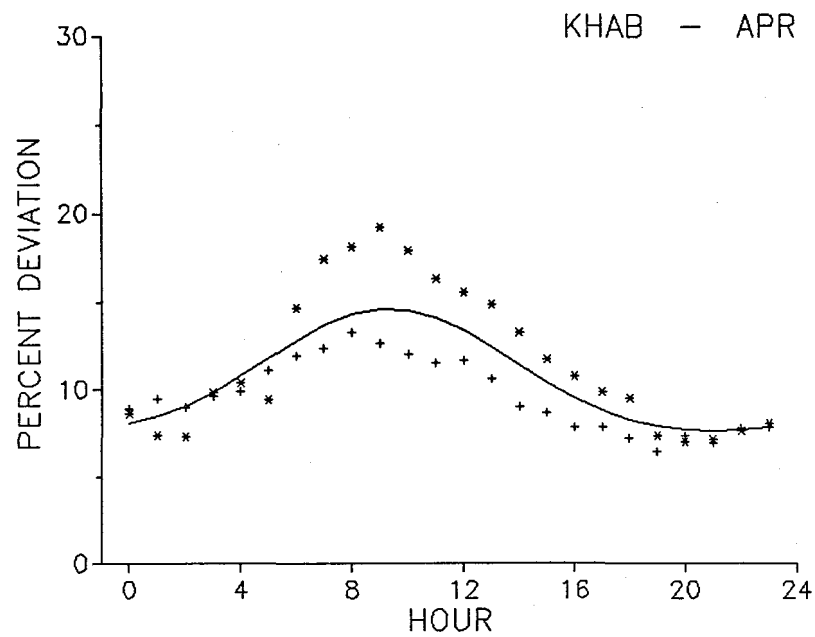
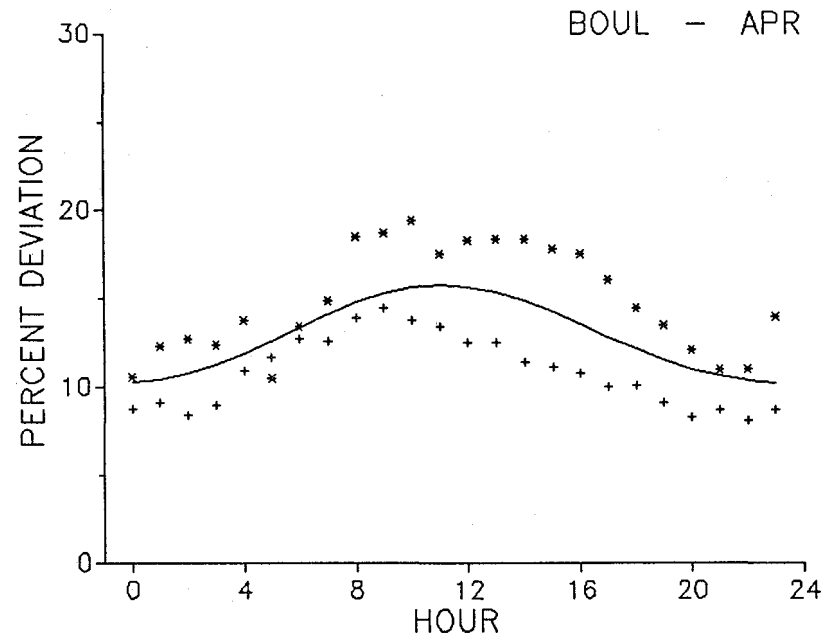
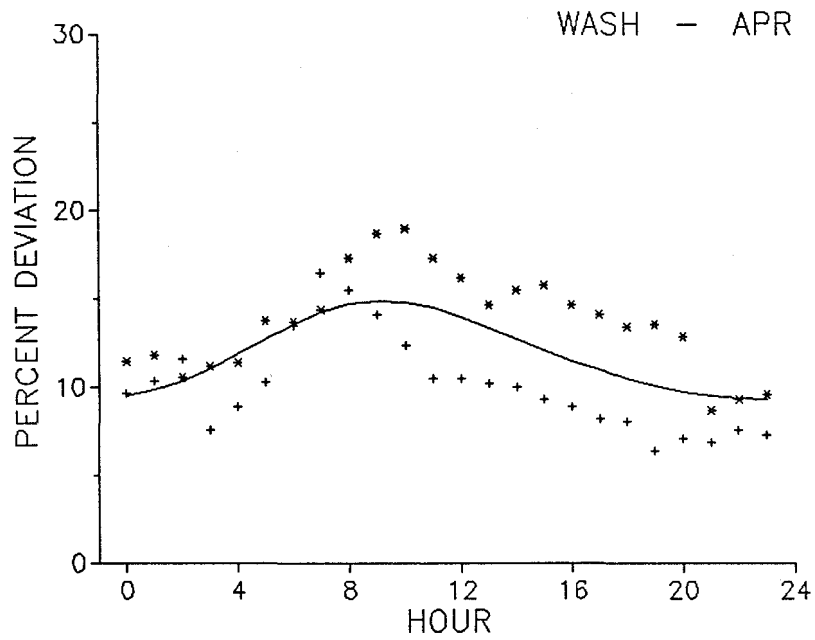
# — — HIGH SSN

67



QUIET MAGNETIC

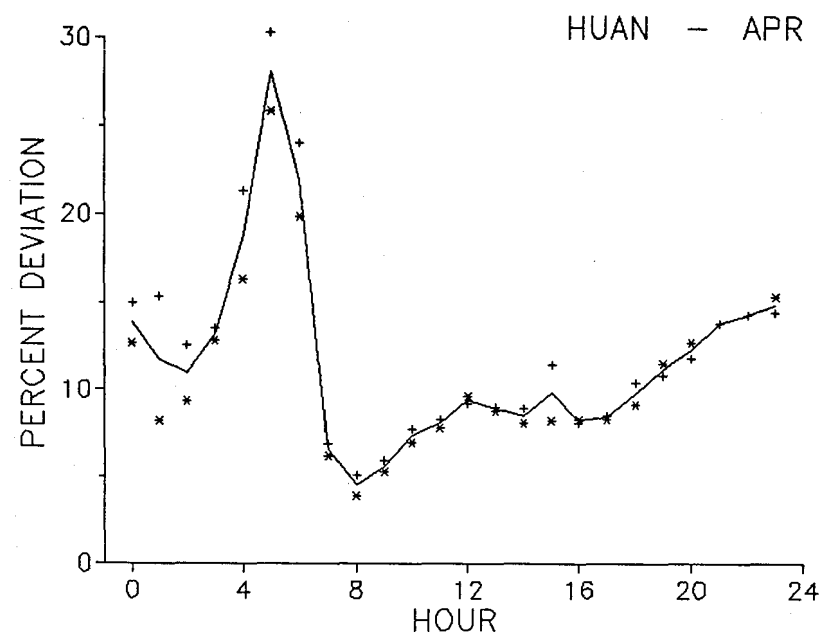
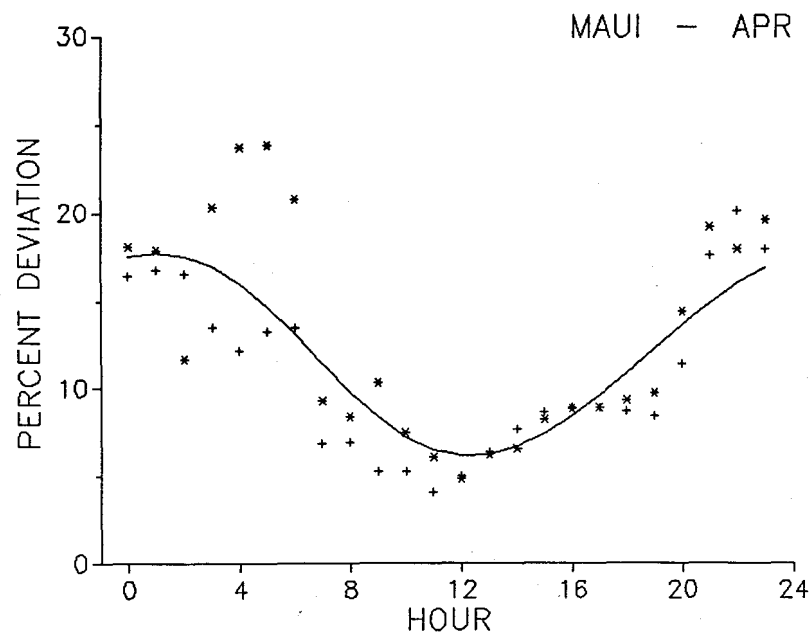
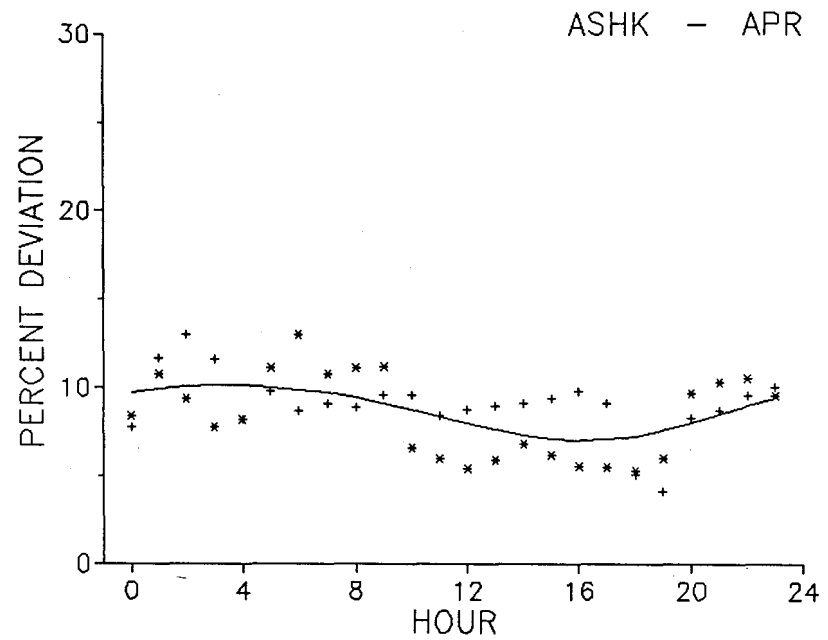
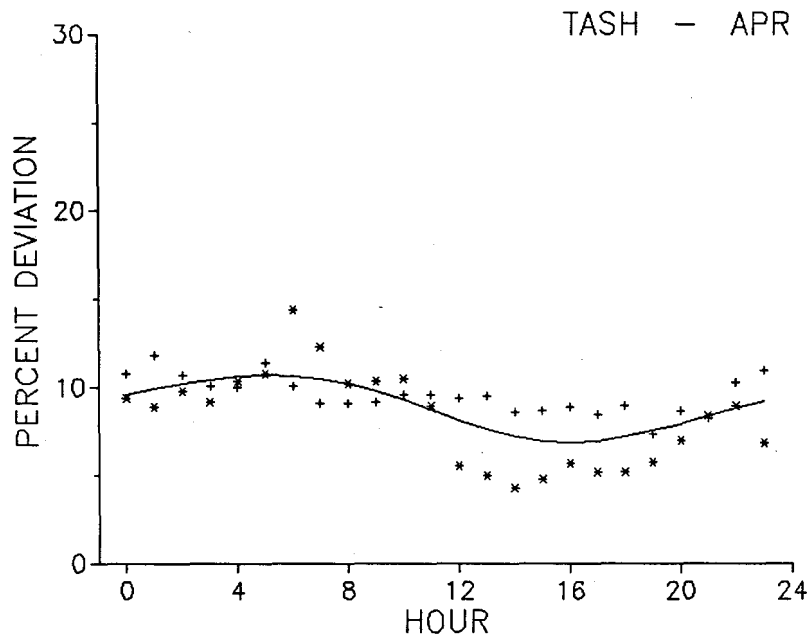
— — HIGH SSN



QUIET MAGNETIC

— — HIGH SSN

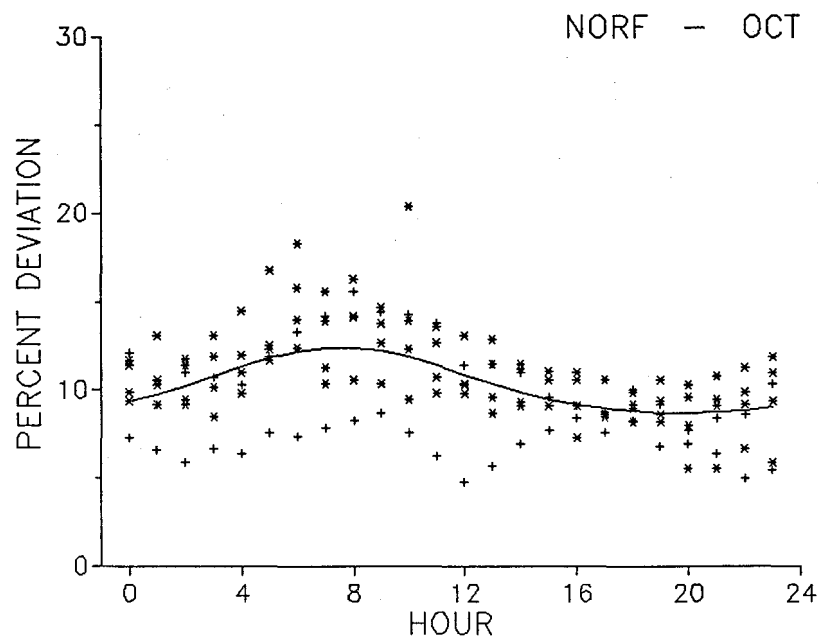
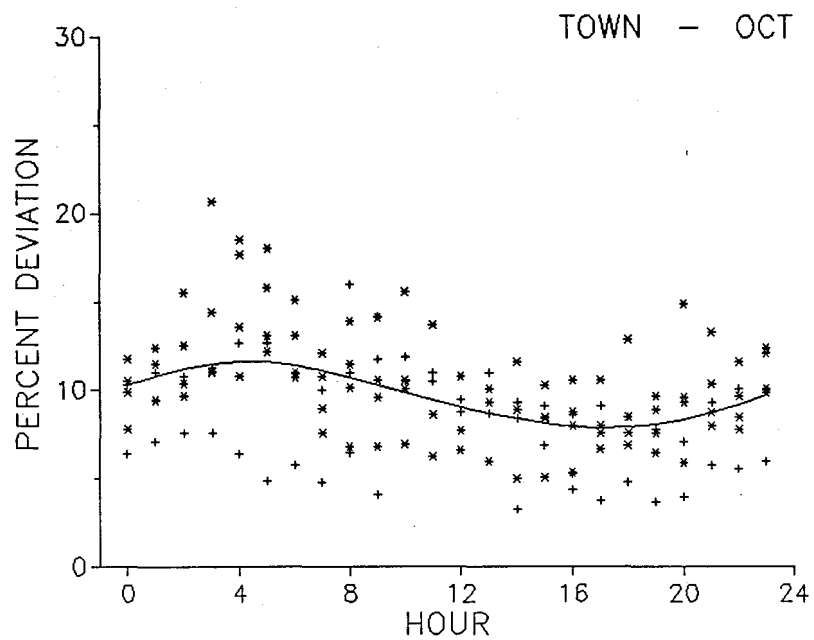
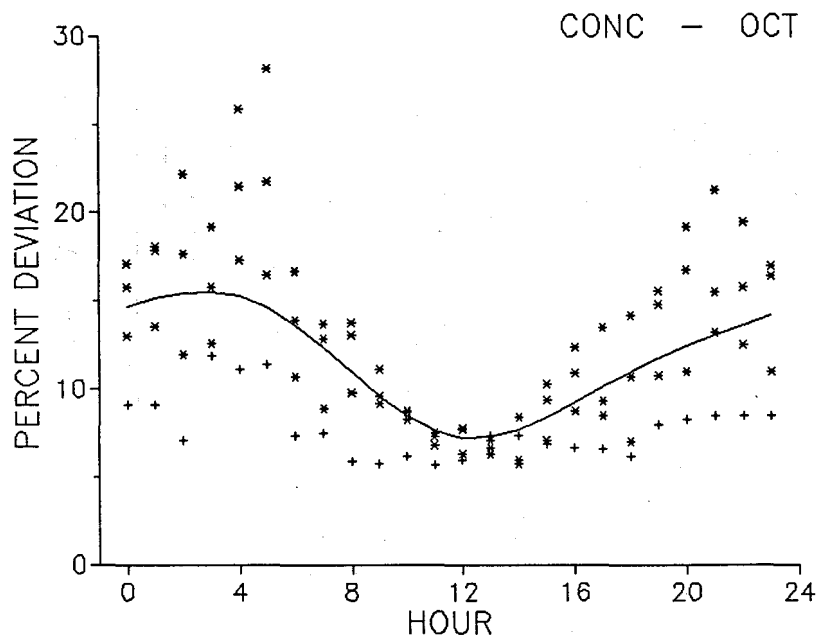
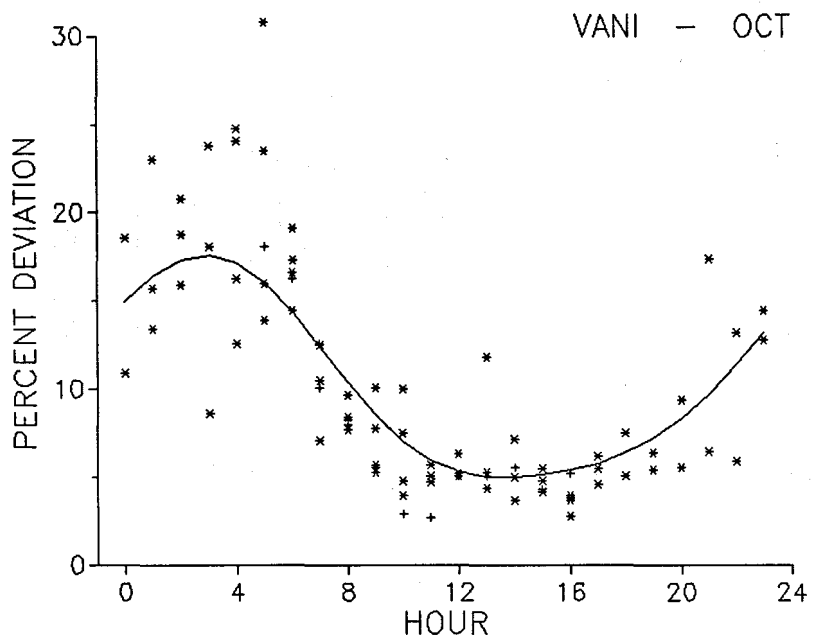
69



QUIET MAGNETIC

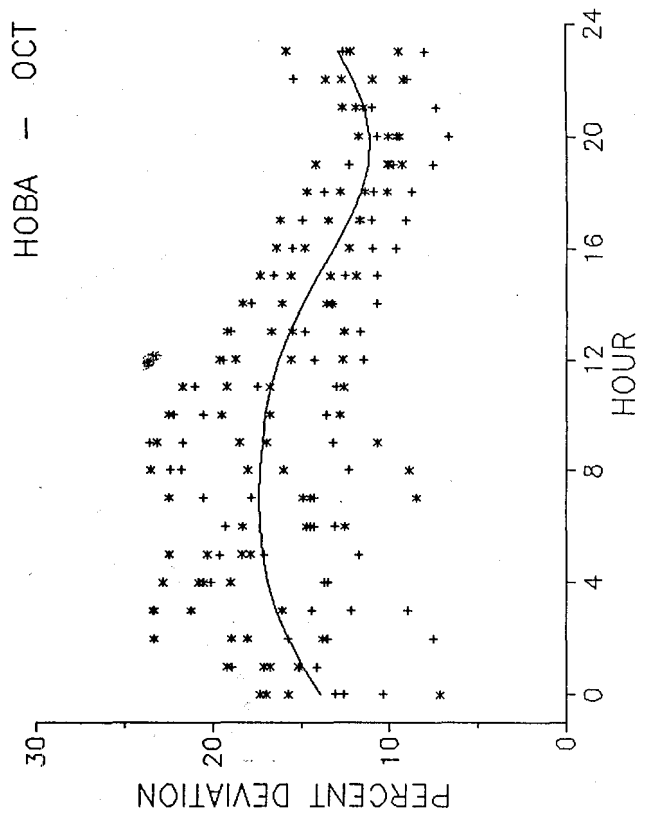
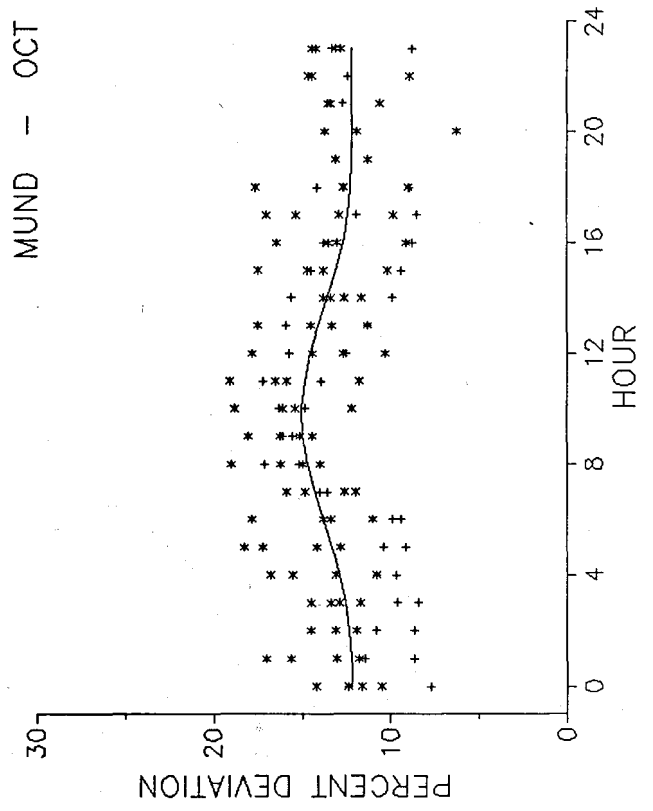
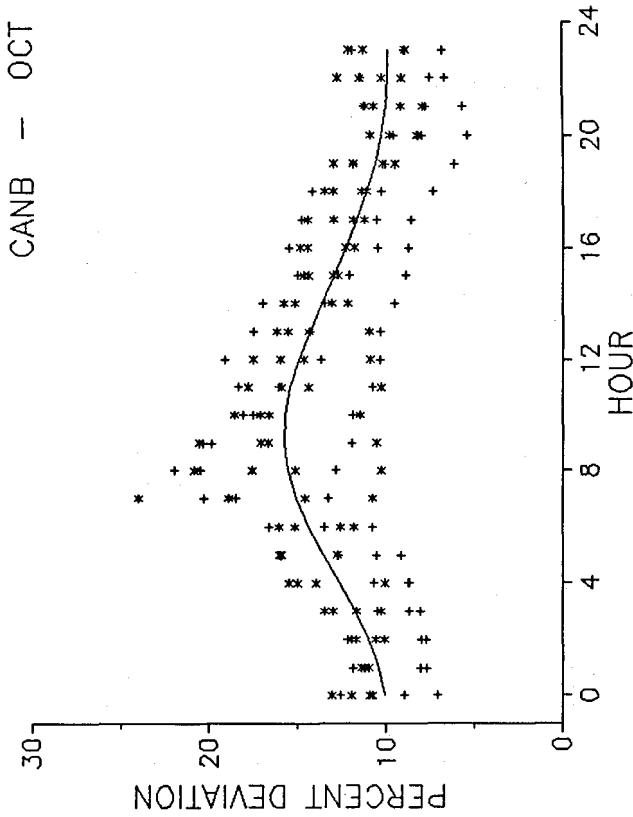
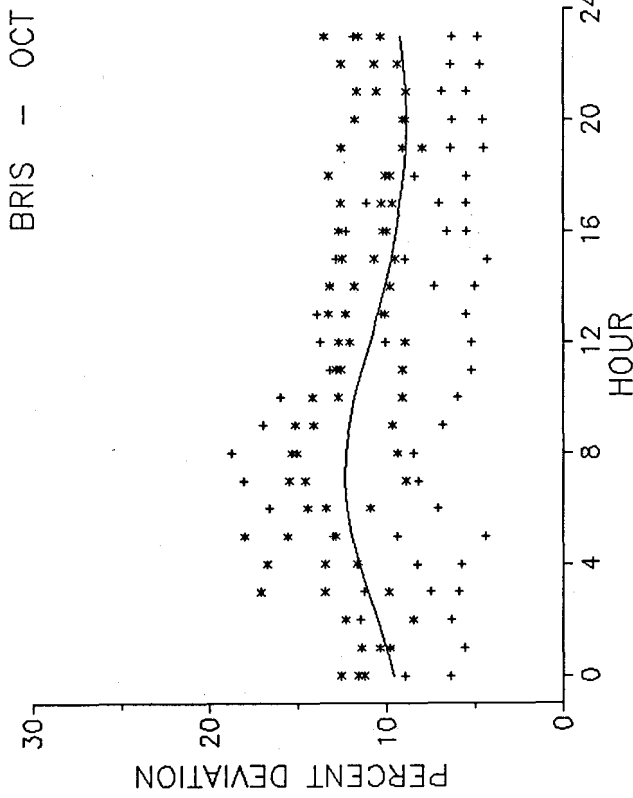
--- HIGH SSN

70



QUIET MAGNETIC

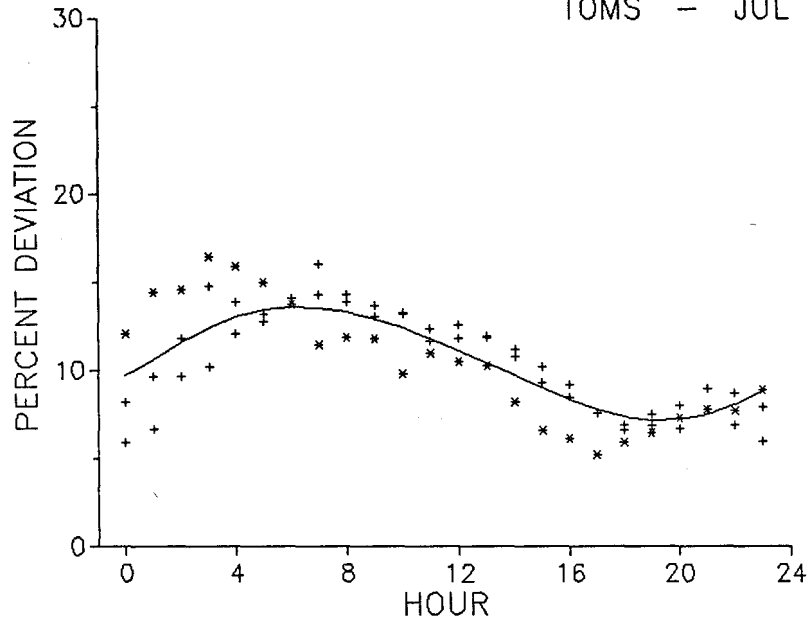
-- HIGH SSN



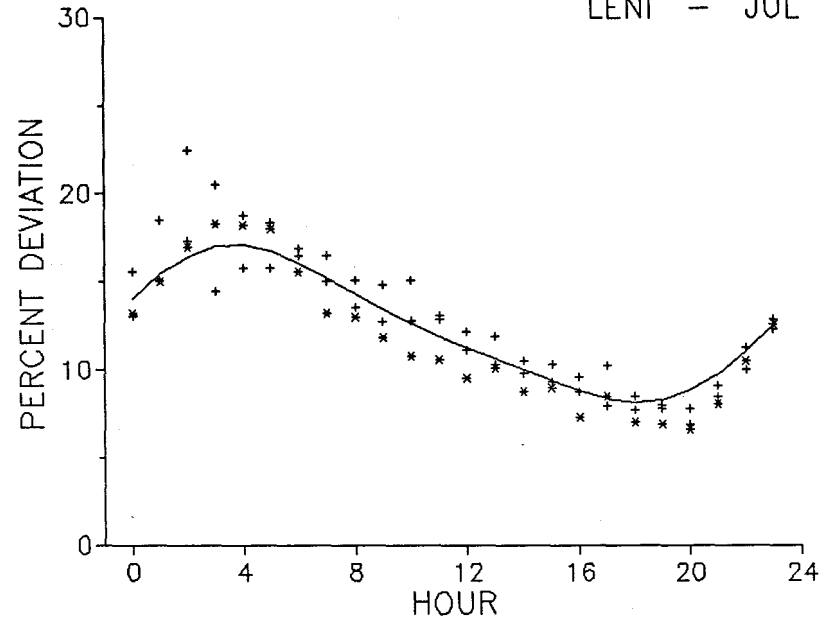
QUIET MAGNETIC

— — HIGH SSN

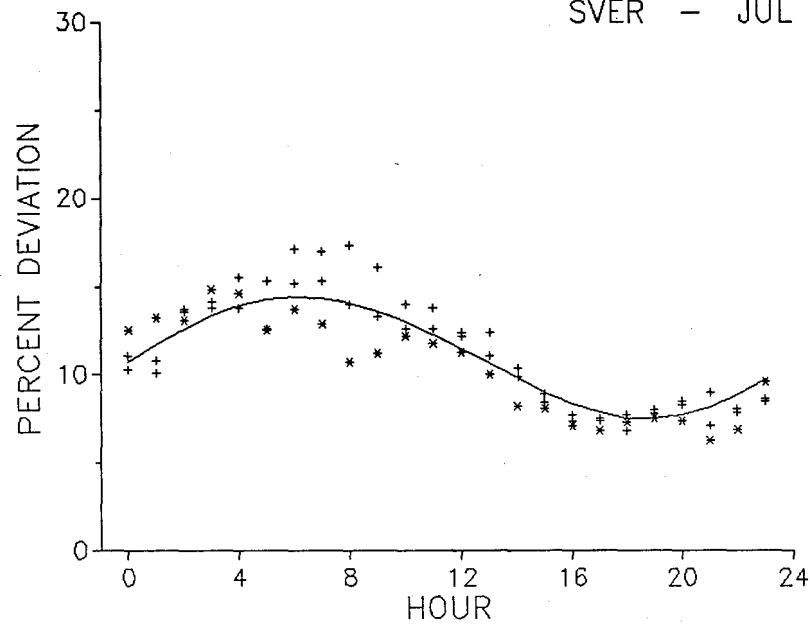
TOMS - JUL



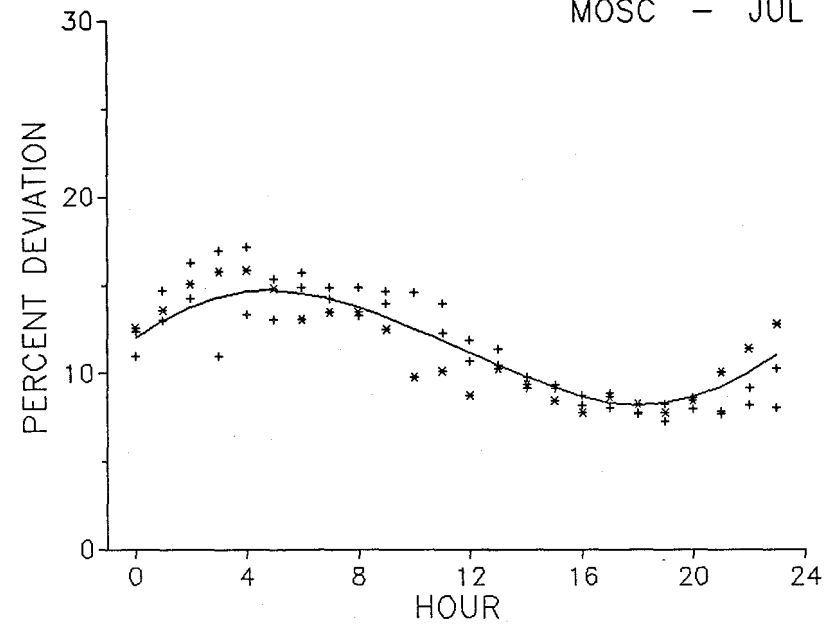
LENI - JUL



SVER - JUL



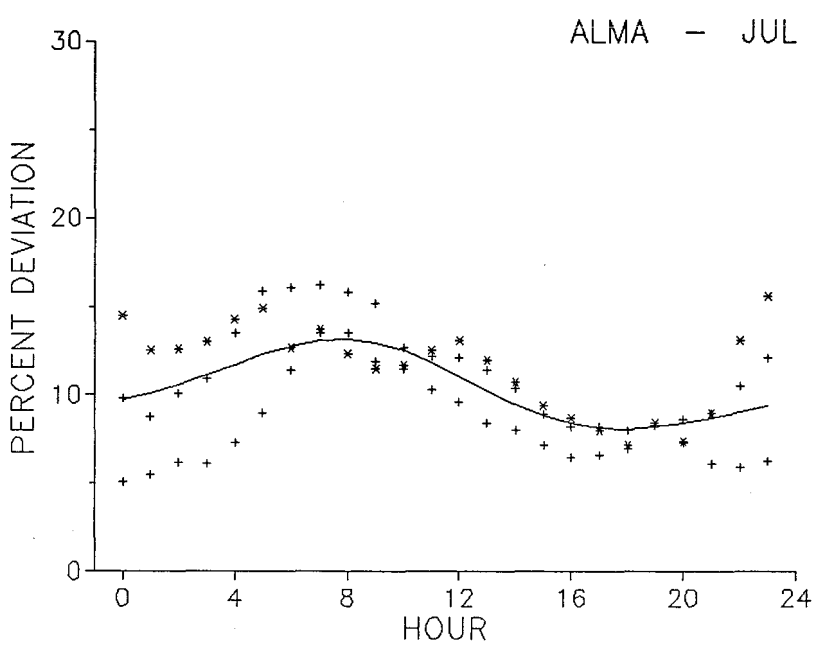
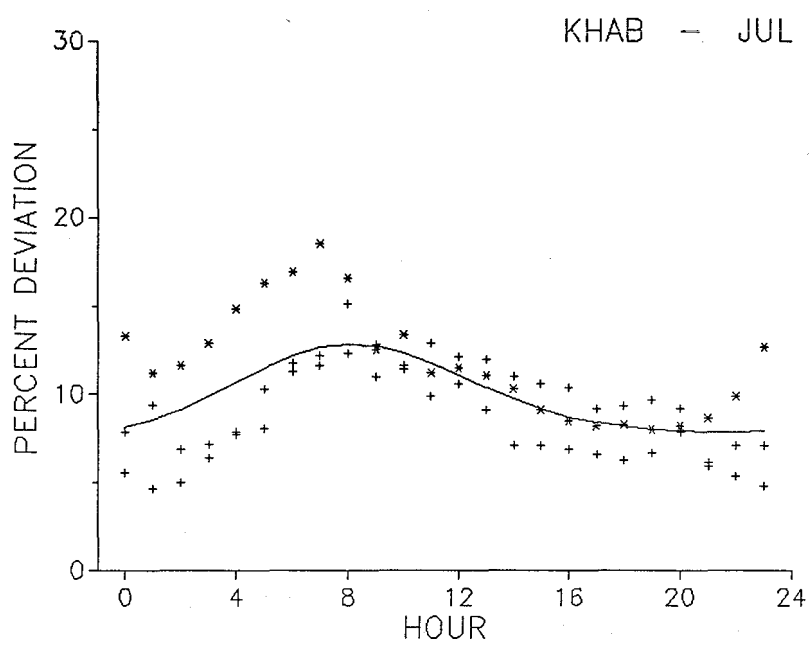
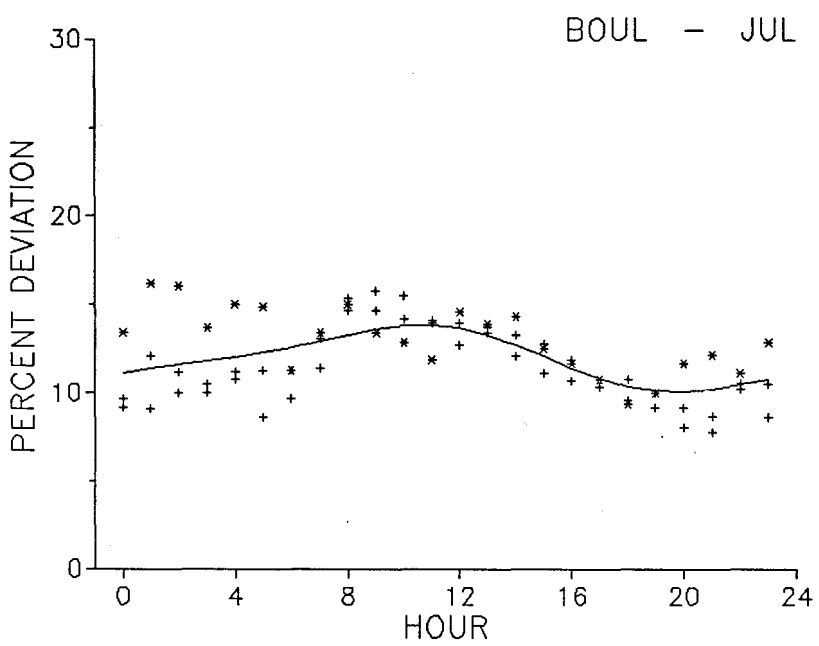
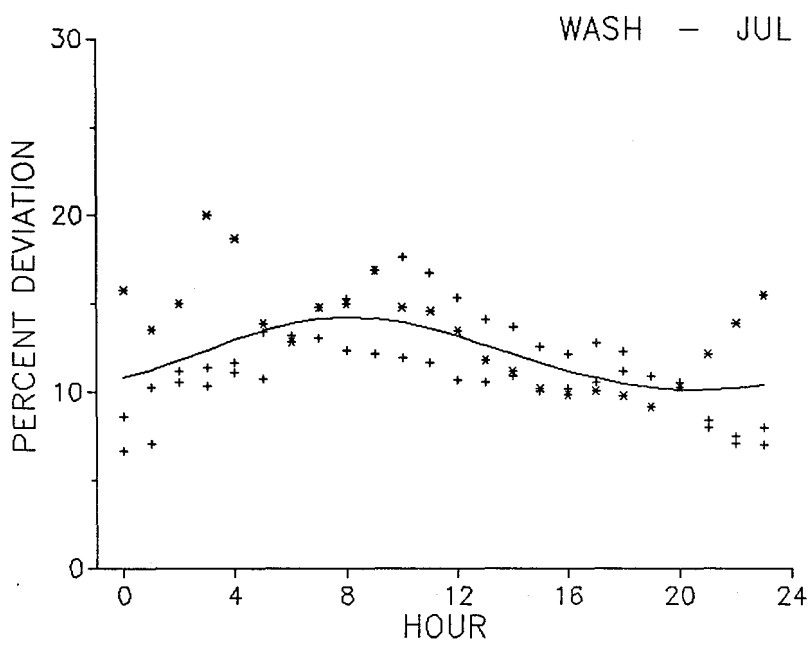
MOSC - JUL



QUIET MAGNETIC

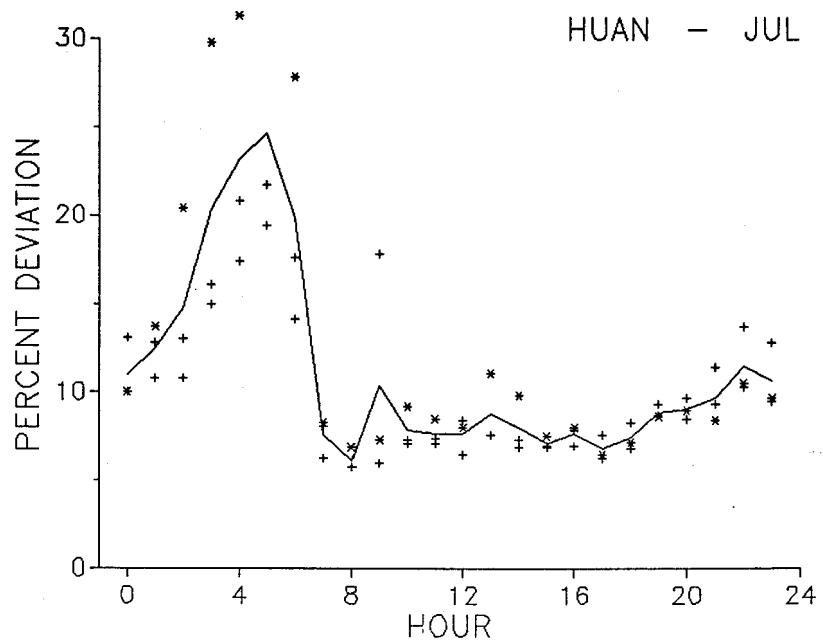
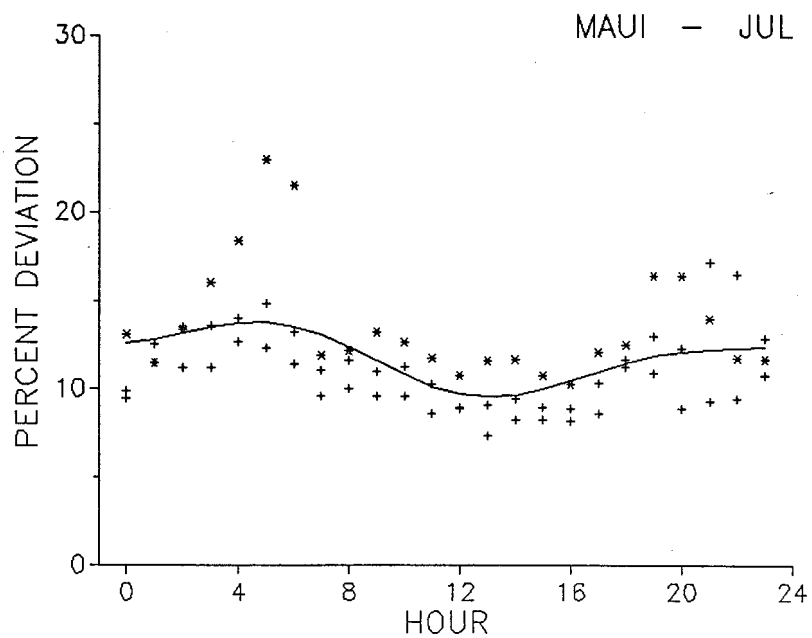
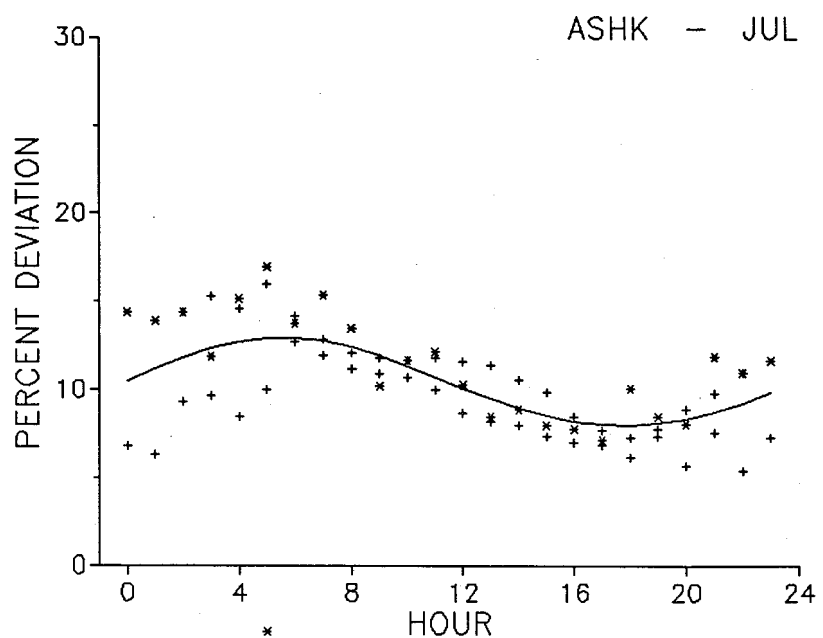
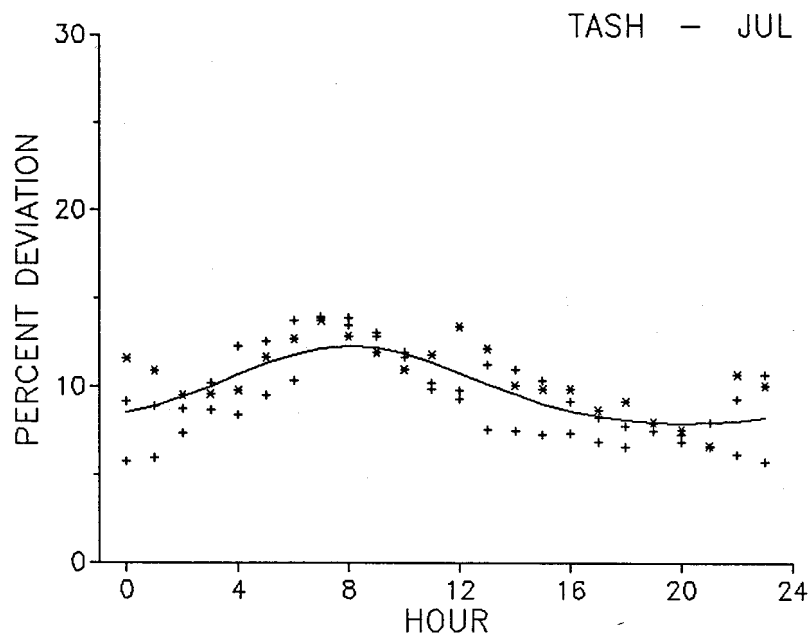
— — HIGH SSN

73



QUIET MAGNETIC

— — HIGH SSN

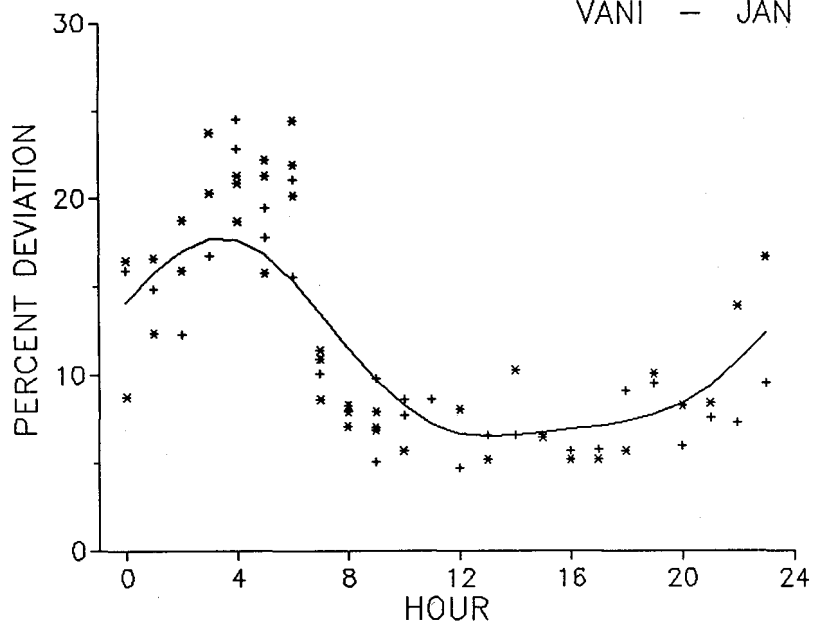




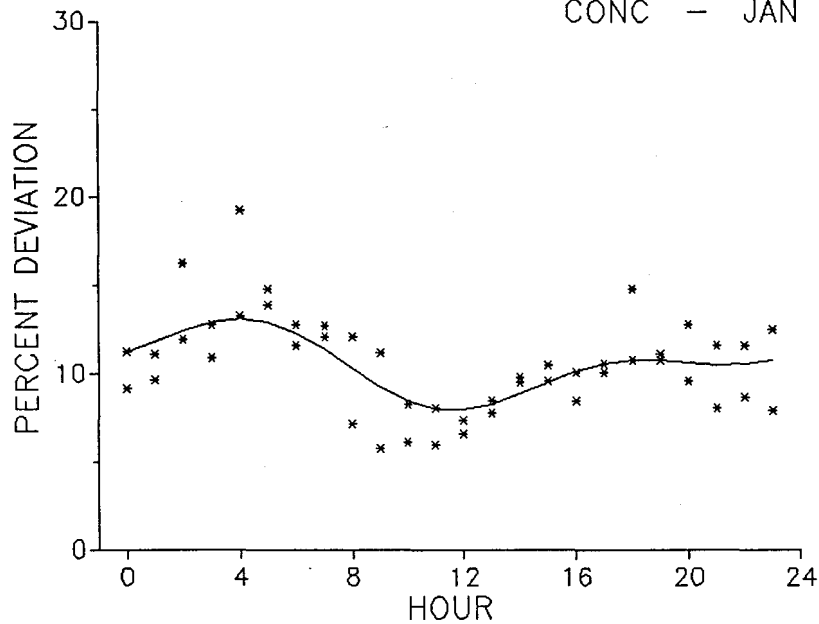
QUIET MAGNETIC

— — HIGH SSN

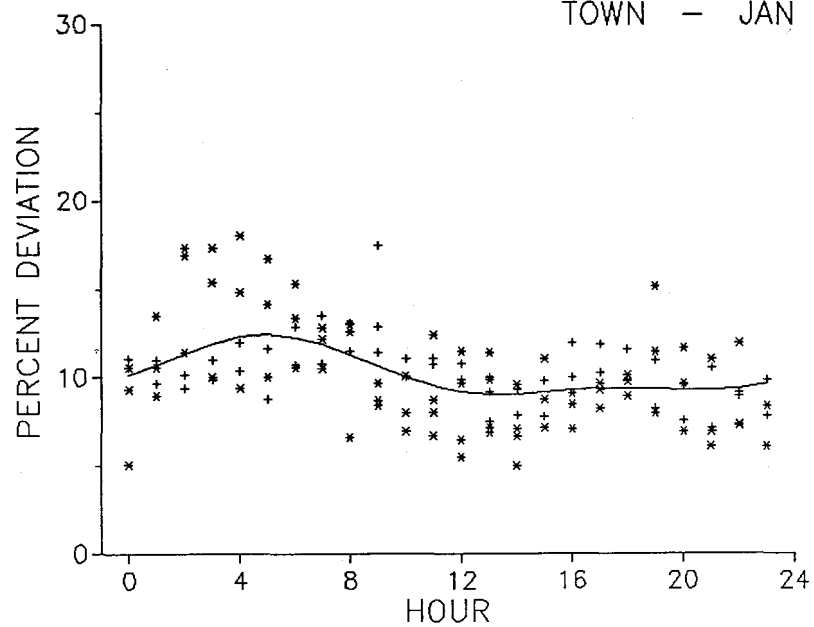
VANI — JAN



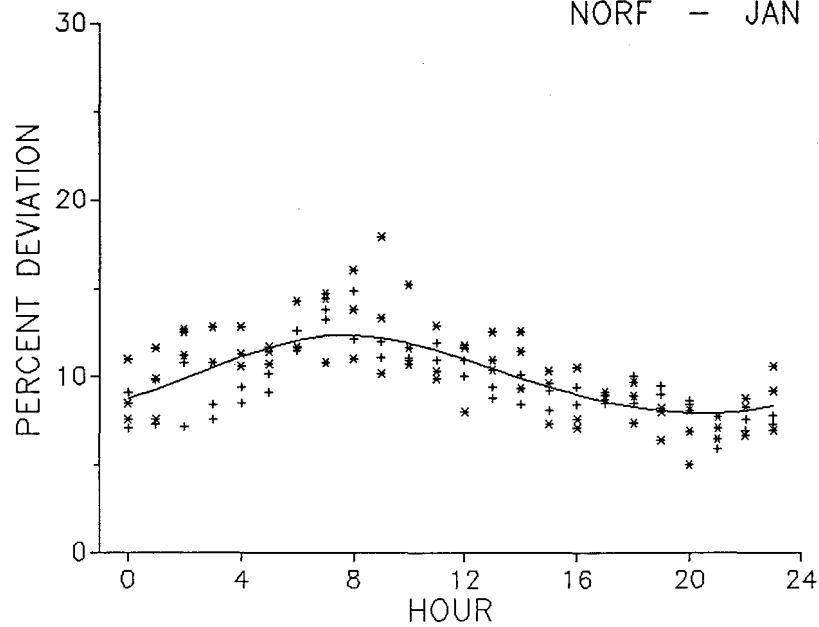
CONC — JAN



TOWN — JAN

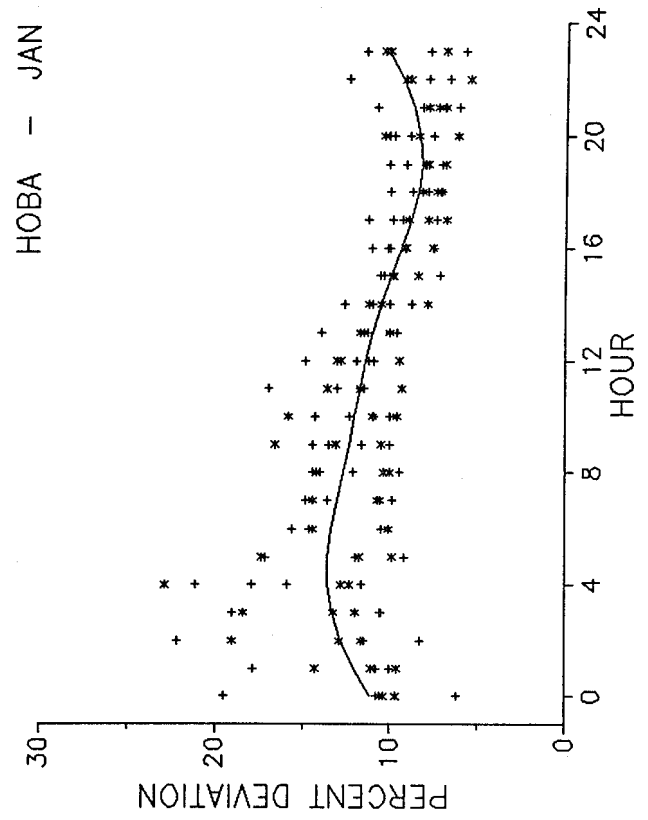
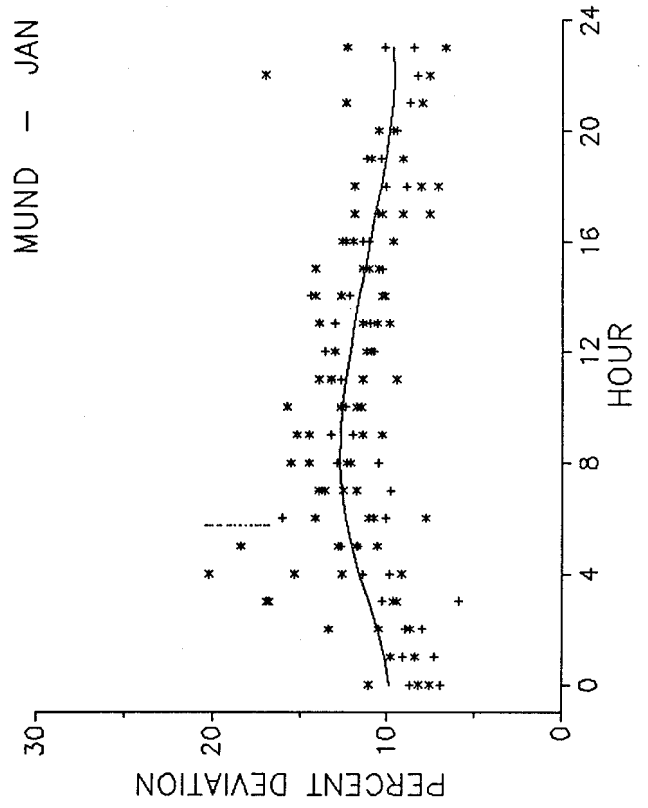
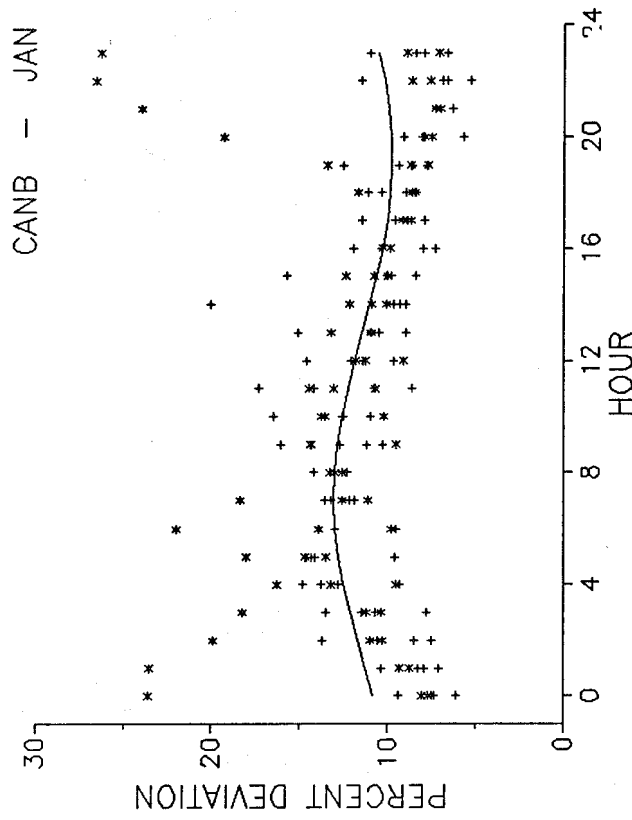
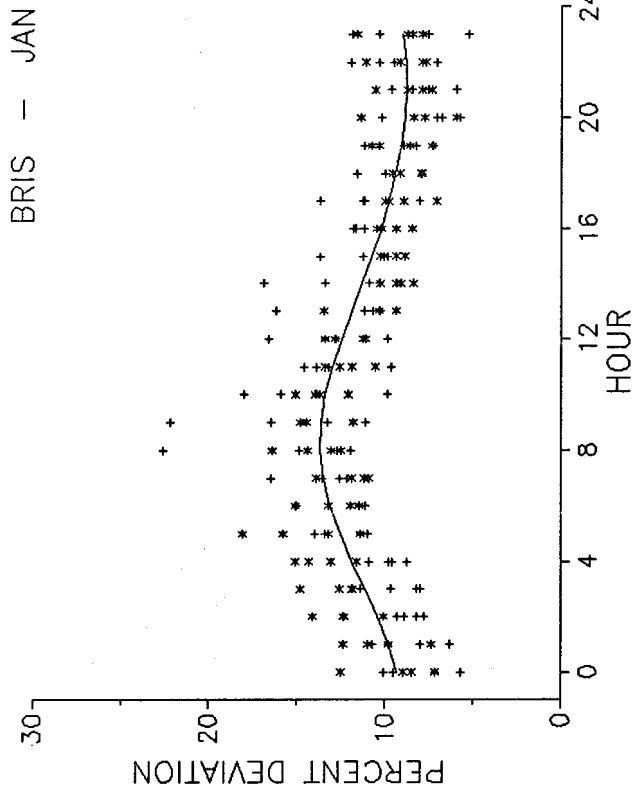


NORF — JAN



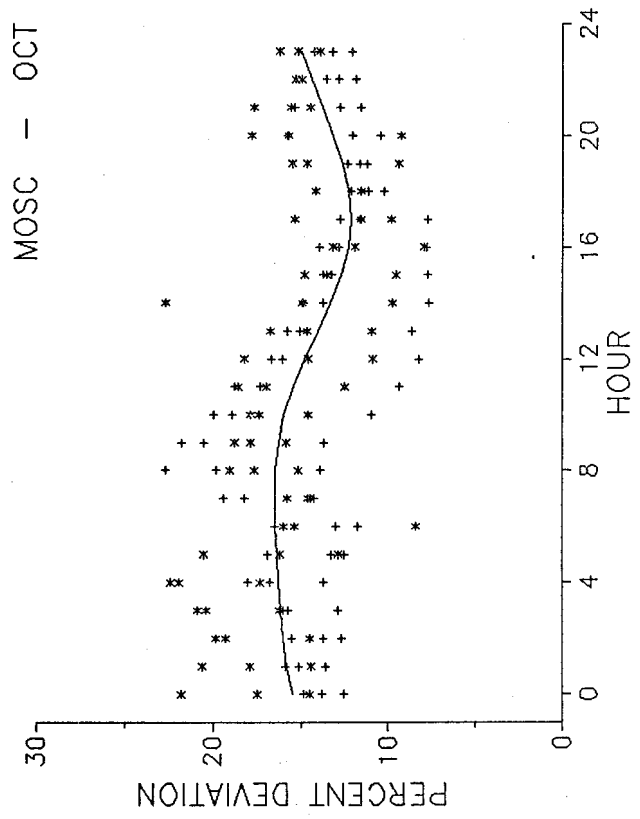
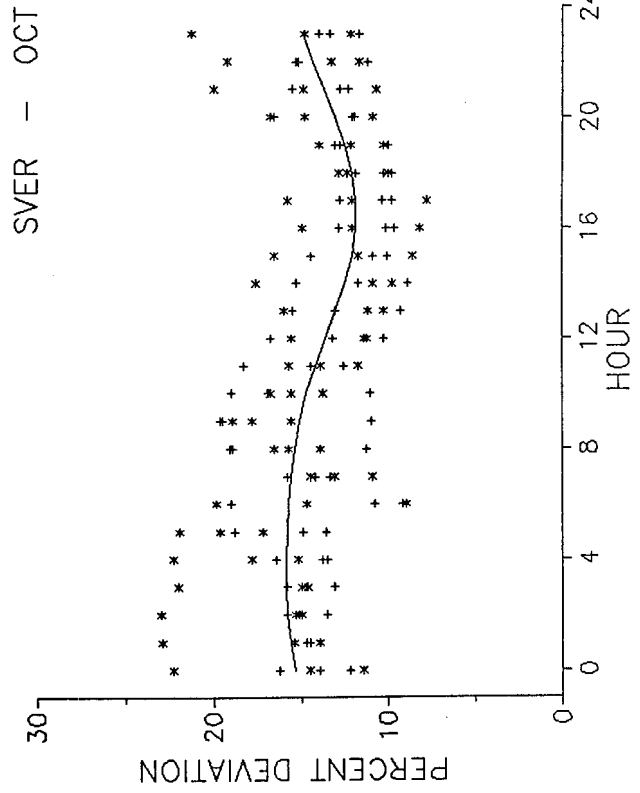
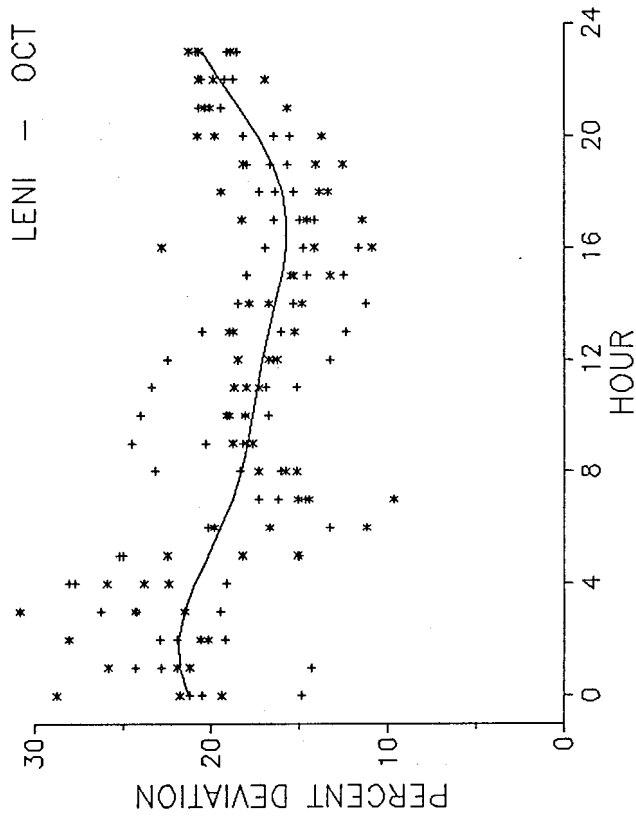
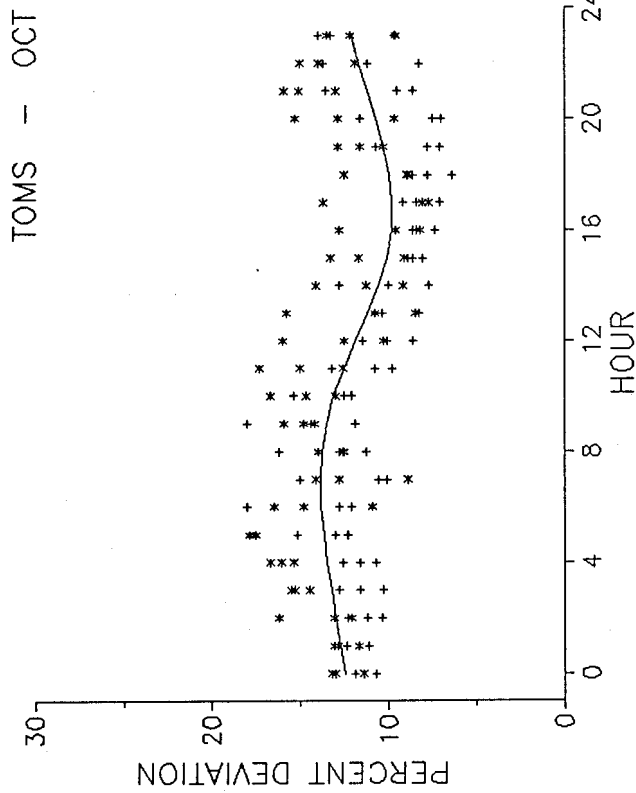
QUIET MAGNETIC

-- HIGH SSN

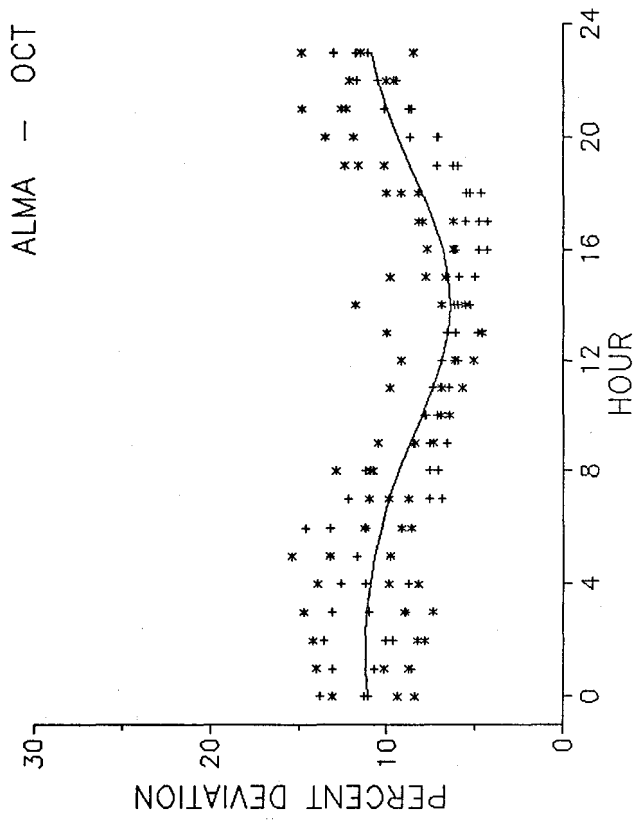
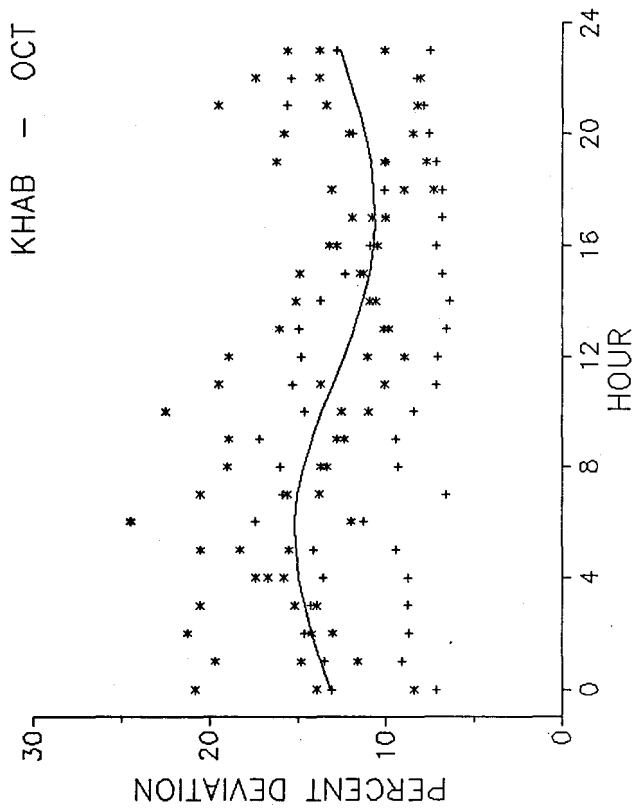
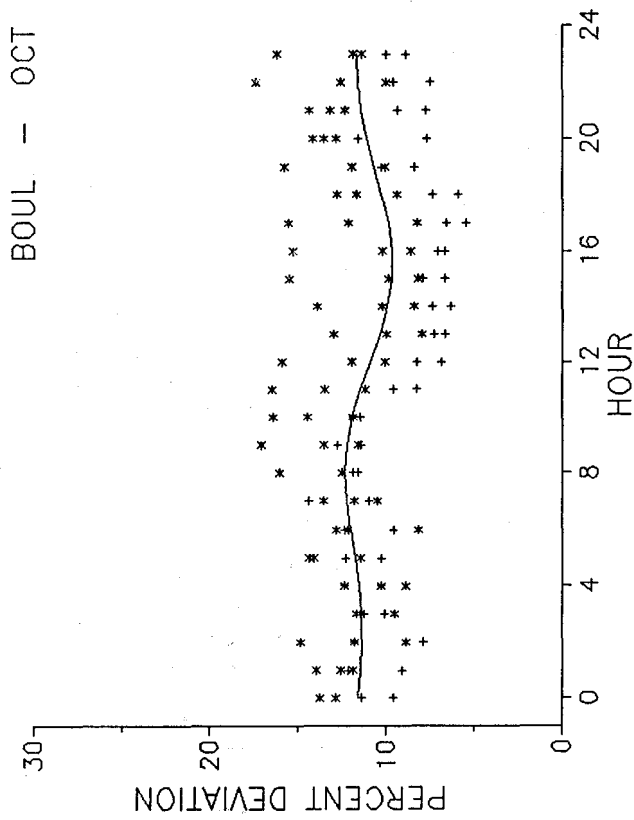
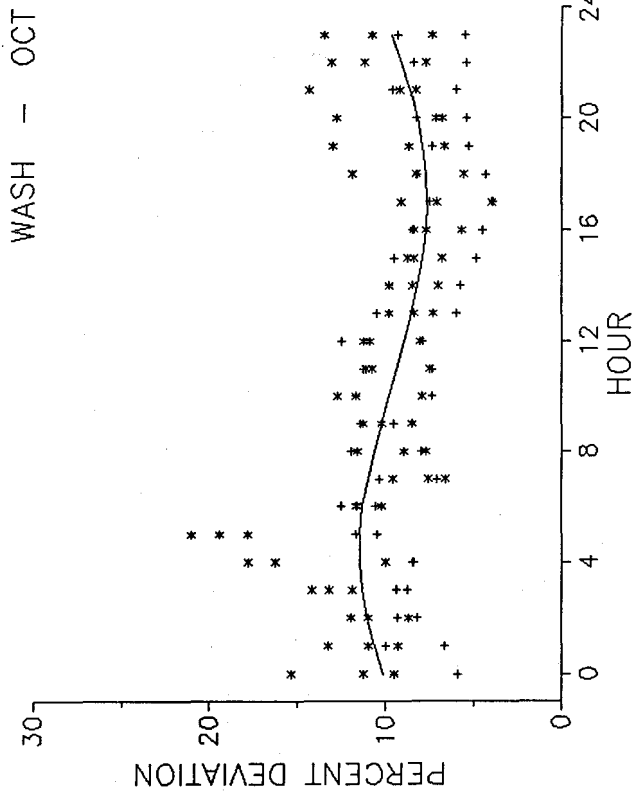


QUIET MAGNETIC

--- HIGH SSN



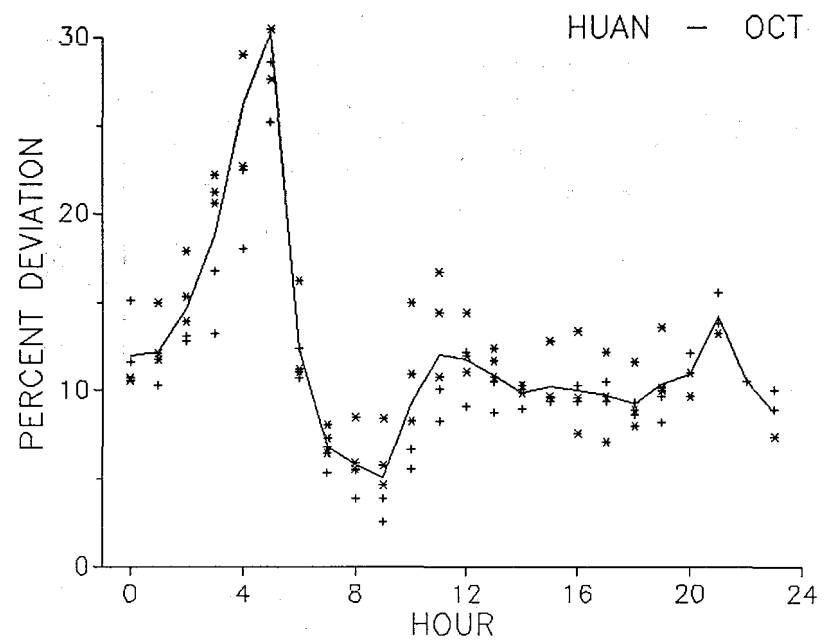
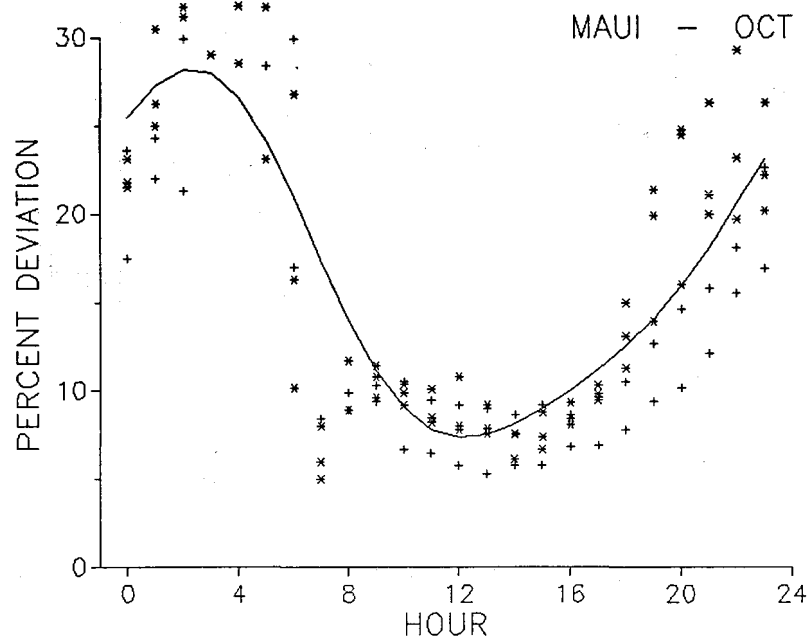
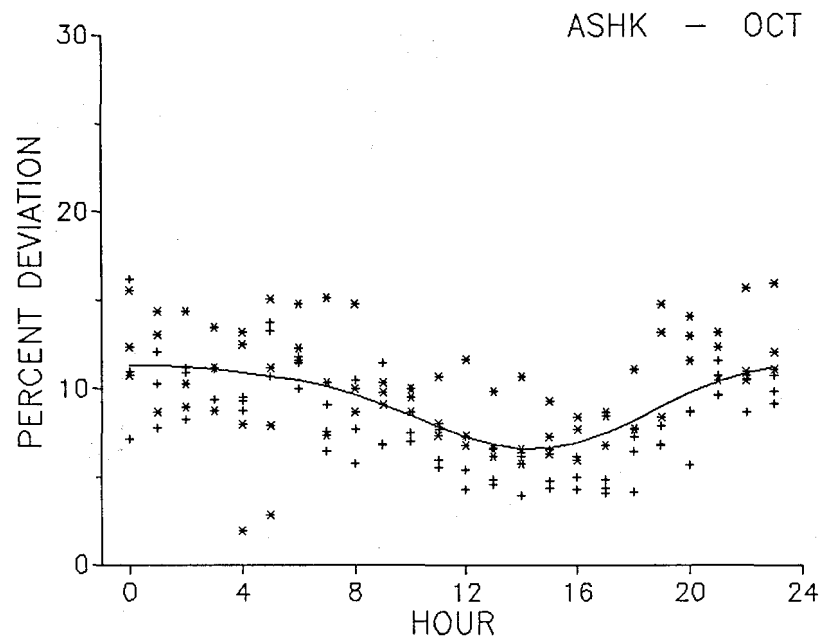
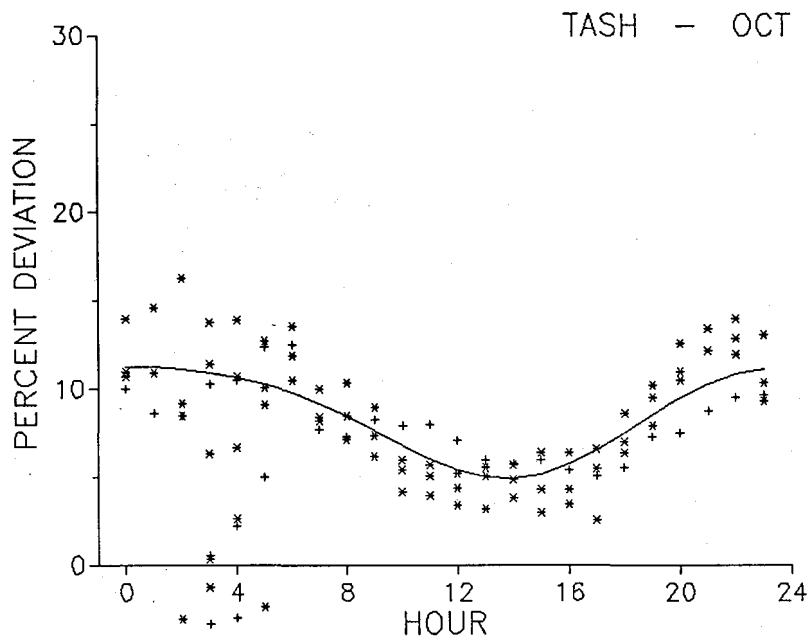
QUIET MAGNETIC --- HIGH SSN



QUIET MAGNETIC

— — HIGH SSN

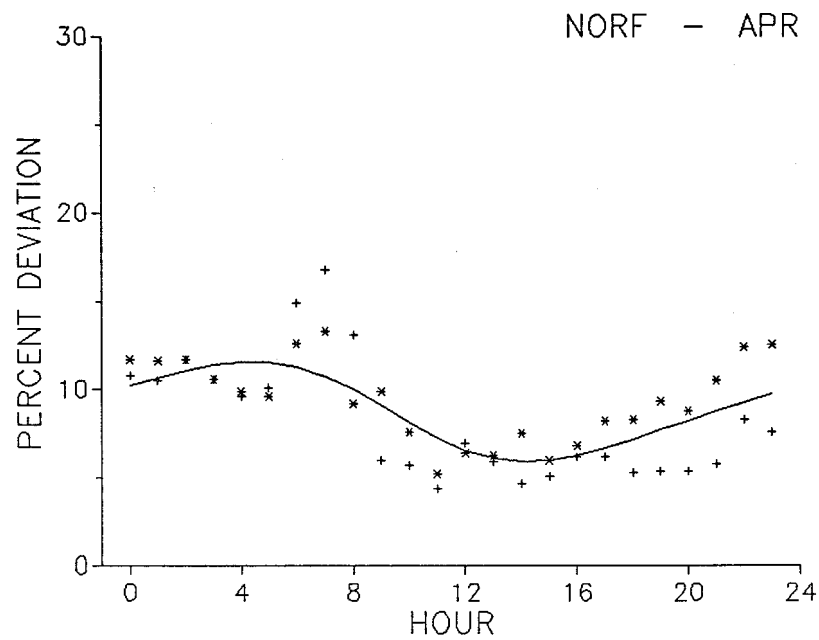
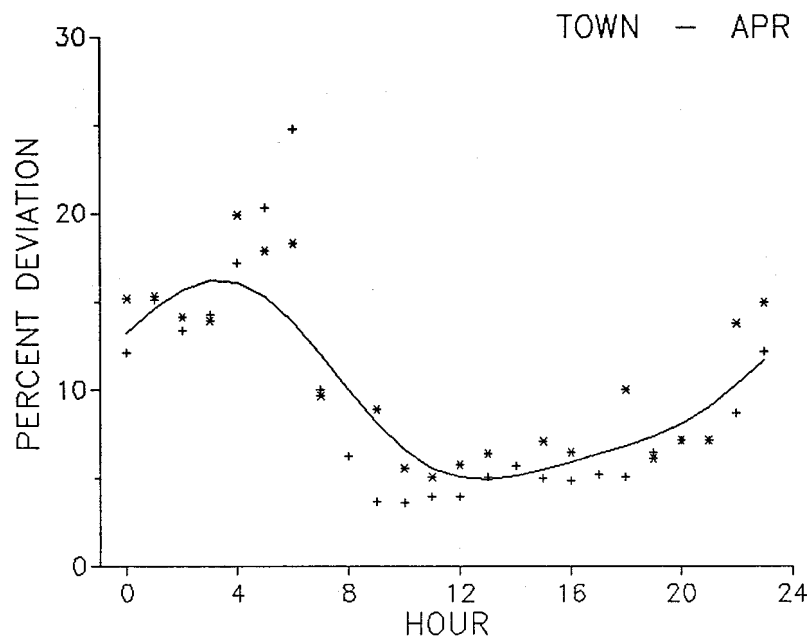
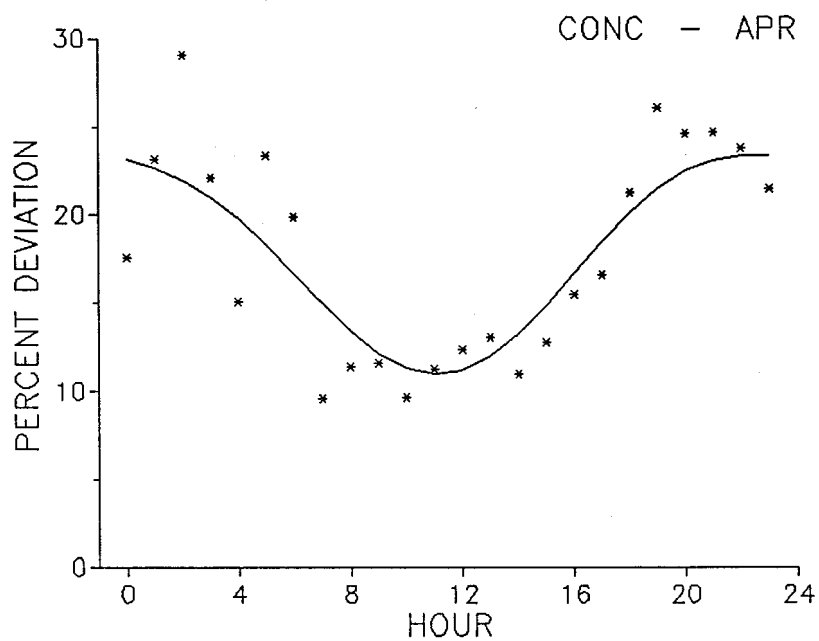
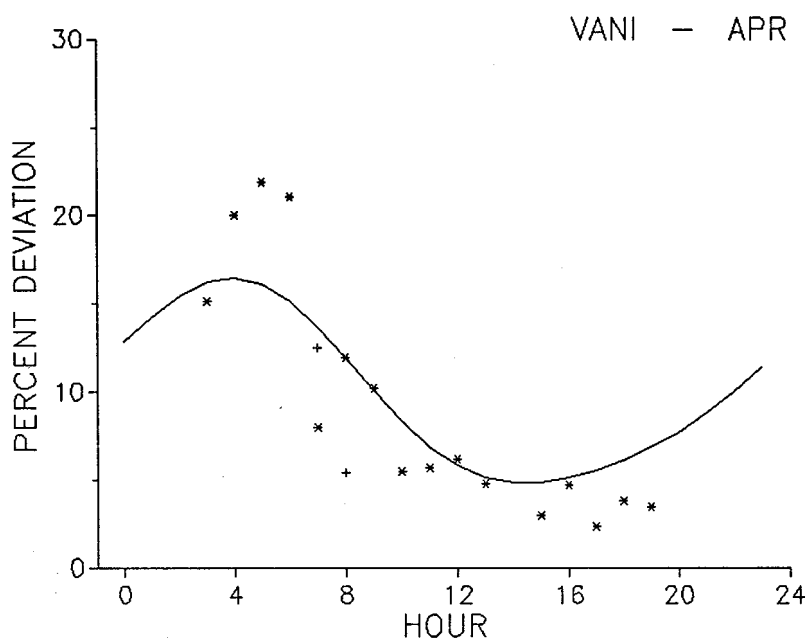
79



QUIET MAGNETIC

— — HIGH SSN

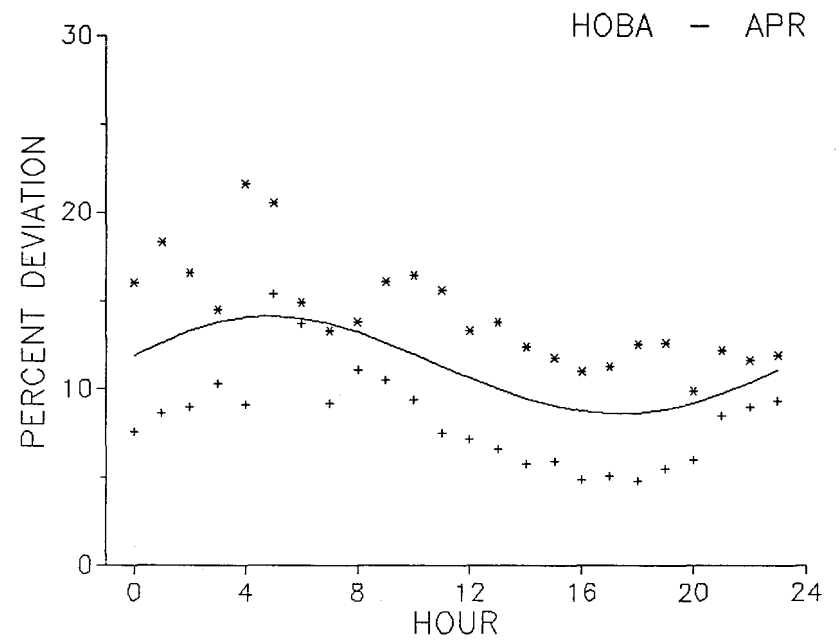
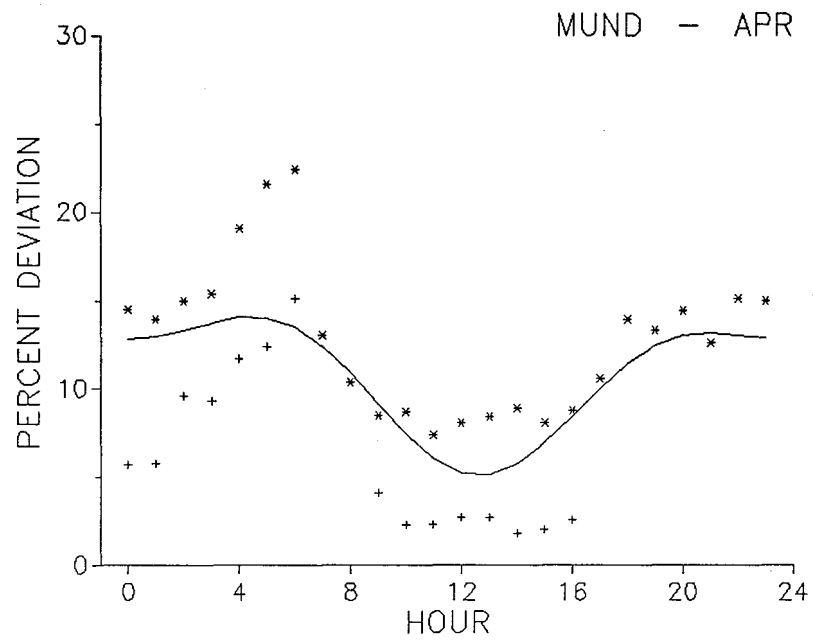
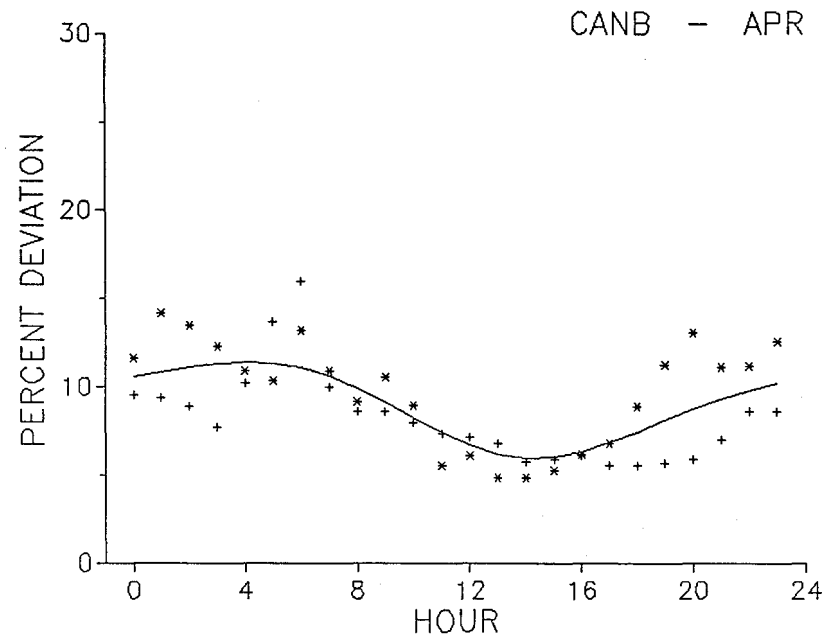
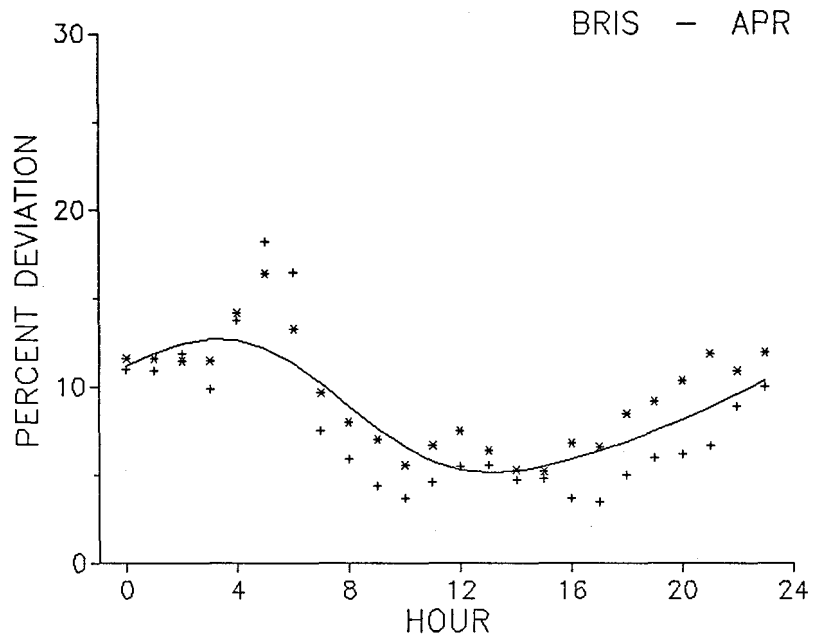
08



QUIET MAGNETIC

— — HIGH SSN

18







APPENDIX B

LOWER DECILE, UPPER DECILE, AND STANDARD  
DEVIATION FACTORS FOR ALL STATIONS FOR  
ACTIVE MAGNETIC PERIODS FOR LOW AND HIGH  
SOLAR PERIODS DURING SPRING AND FALL EQUINOX

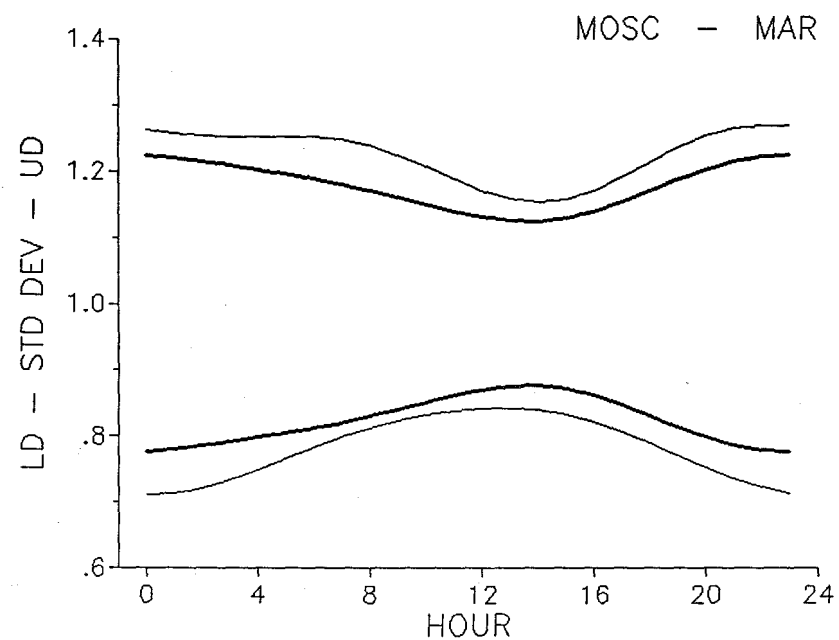
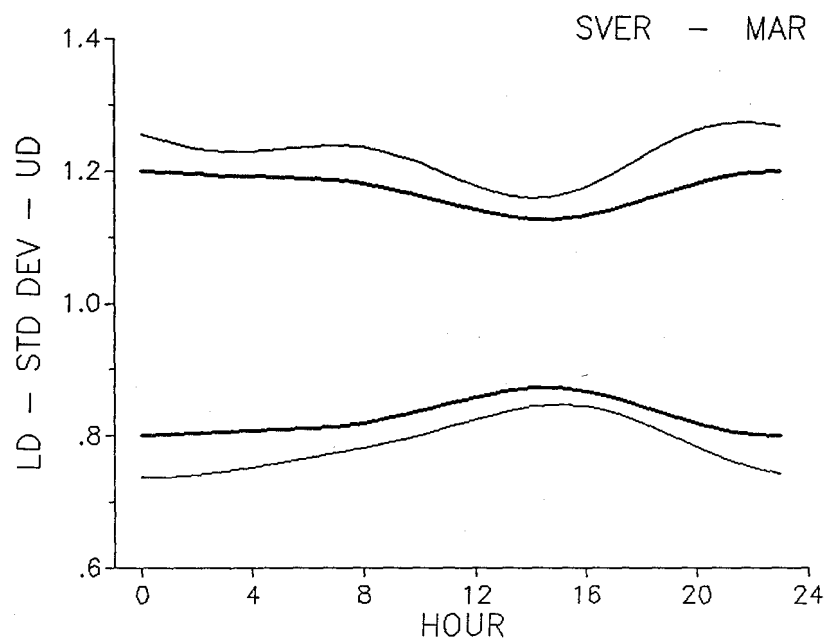
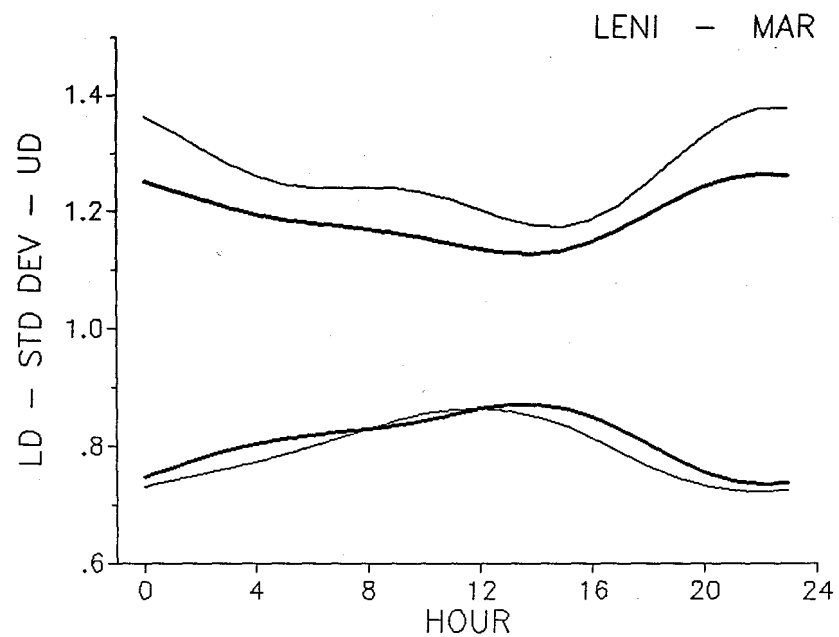
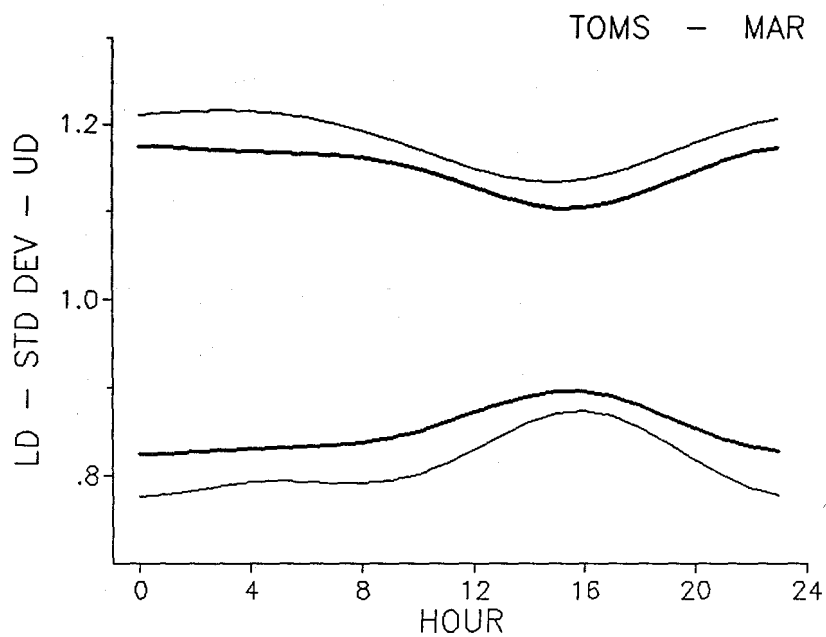
LOW SOLAR	SPRING EQUINOX		FALL EQUINOX	
TOMSK, LENINGRAD SVERDLOVSK, MOSCOW	84	89	94	99
WASHINGTON, BOULDER KHABAROVSK, ALMA ATA	85	90	95	100
TASHKENT, ASHKABAD MAUI, HUANCAYO	86	91	96	101
VANIMO, CONCEPCION TOWNSVILLE, NORFOLK	87	92	97	102
BRISBANE, CANBERRA MUNDARING, HOBART	88	93	98	103

HIGH SOLAR	SPRING EQUINOX		FALL EQUINOX	
TOMSK, LENINGRAD SVERDLOVSK, MOSCOW	104	109	114	119
WASHINGTON, BOULDER KHABAROVSK, ALMA ATA	105	110	115	120
TASHKENT, ASHKABAD MAUI, HUANCAYO	106	111	116	121
VANIMO, CONCEPCION TOWNSVILLE, NORFOLK	107	112	117	122
BRISBANE, CANBERRA MUNDARING, HOBART	108	113	118	123

# ACTIVE MAGNETIC

# LOW SSN

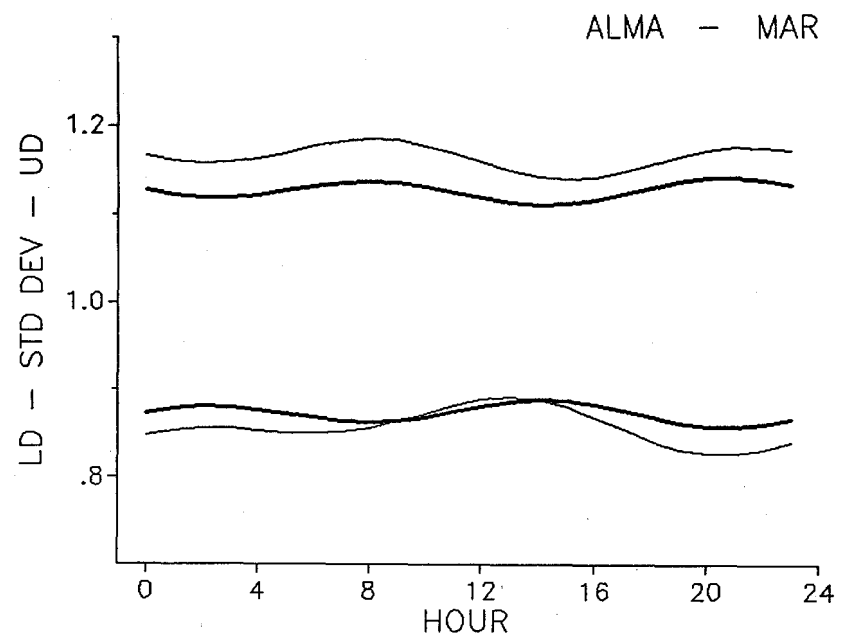
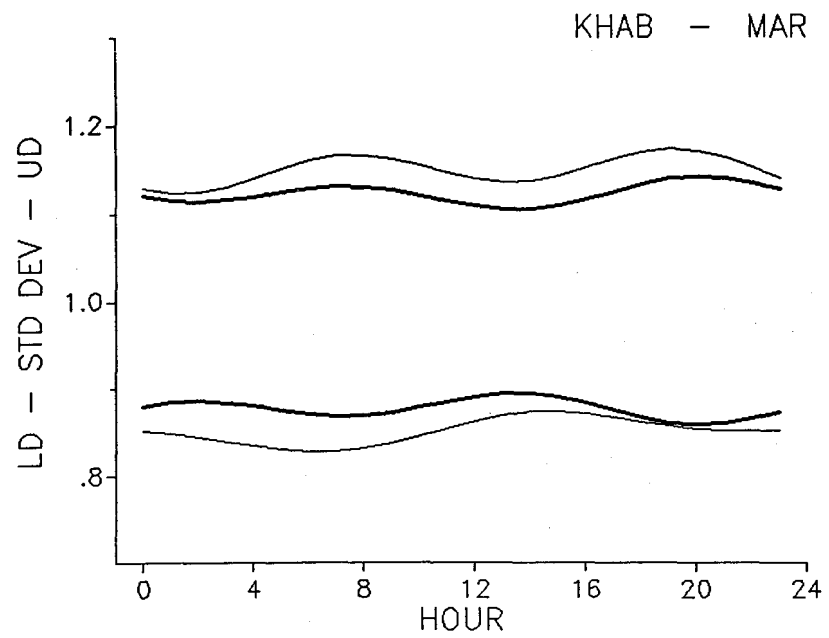
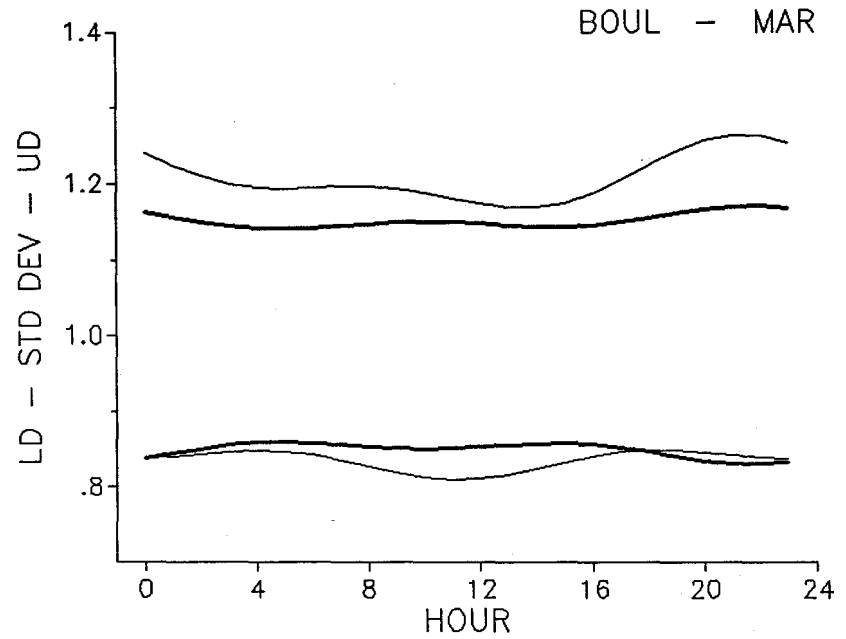
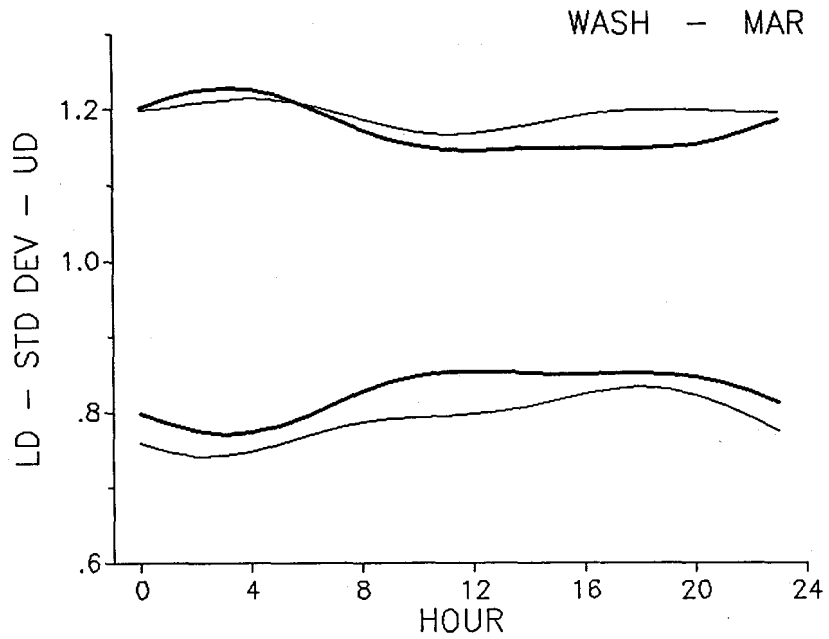
84



# ACTIVE MAGNETIC

# LOW SSN

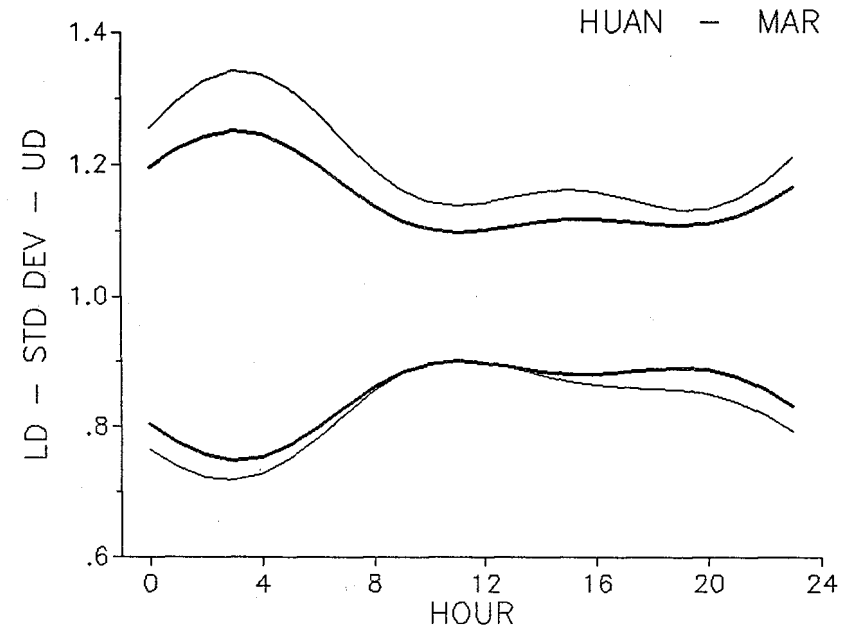
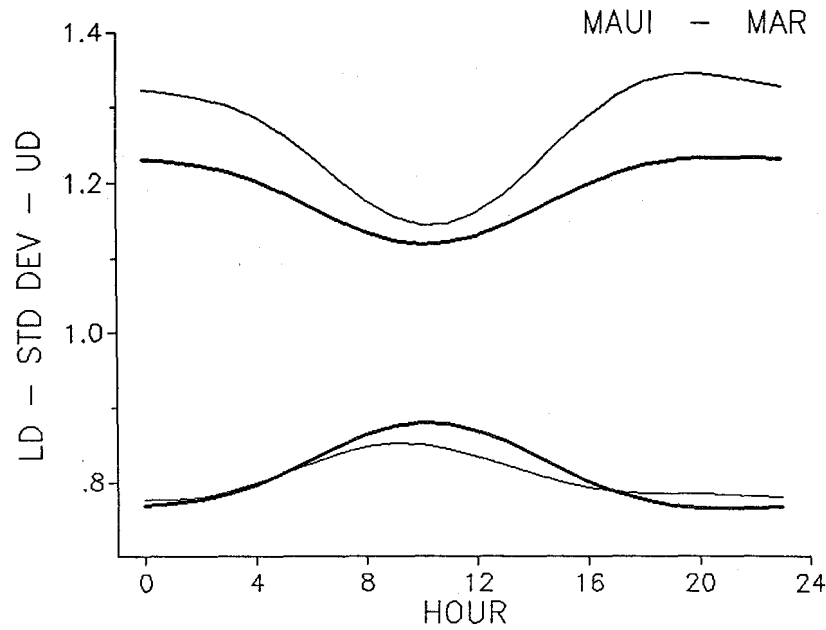
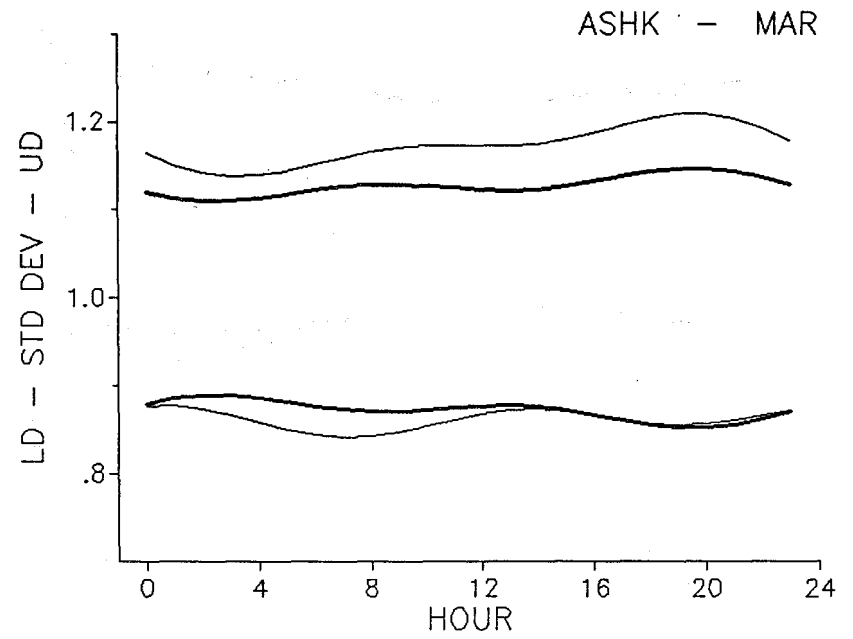
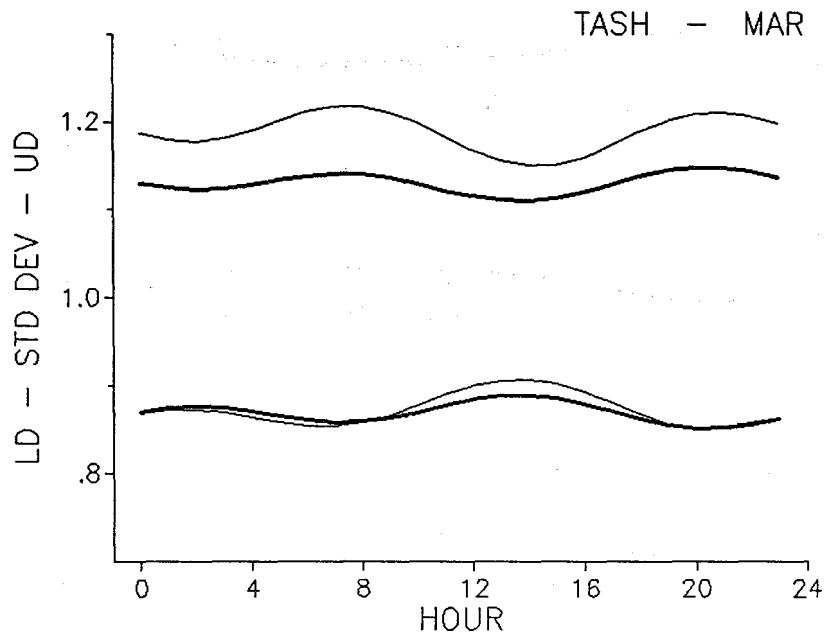
58



# ACTIVE MAGNETIC

# LOW SSN

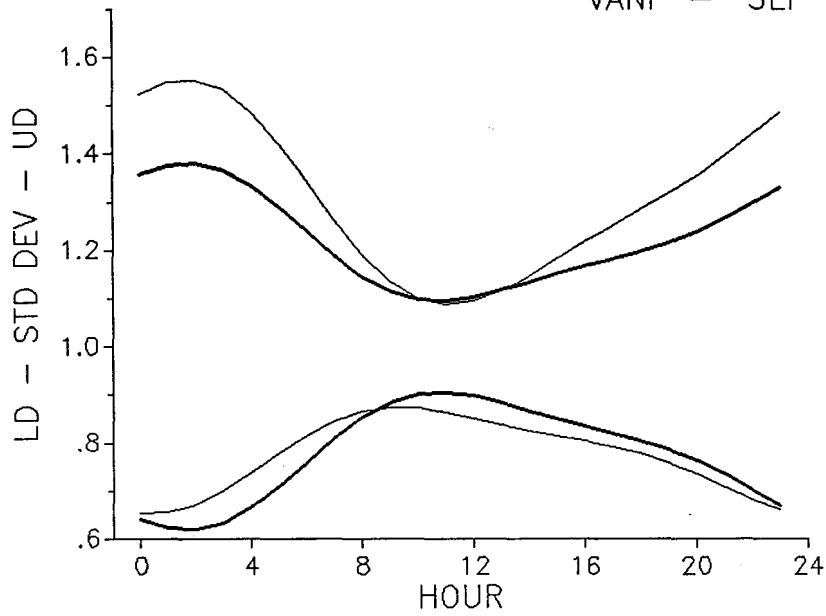
98



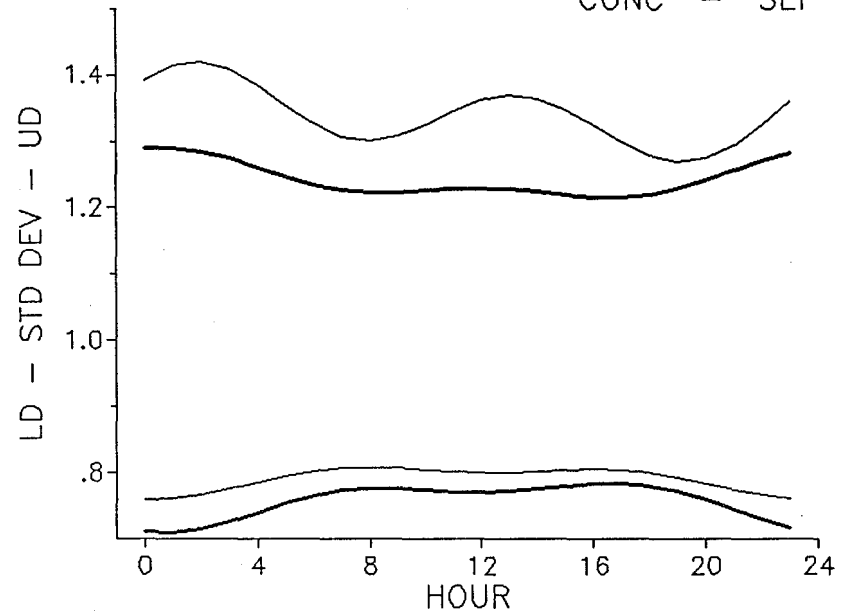
# ACTIVE MAGNETIC

# LOW SSN

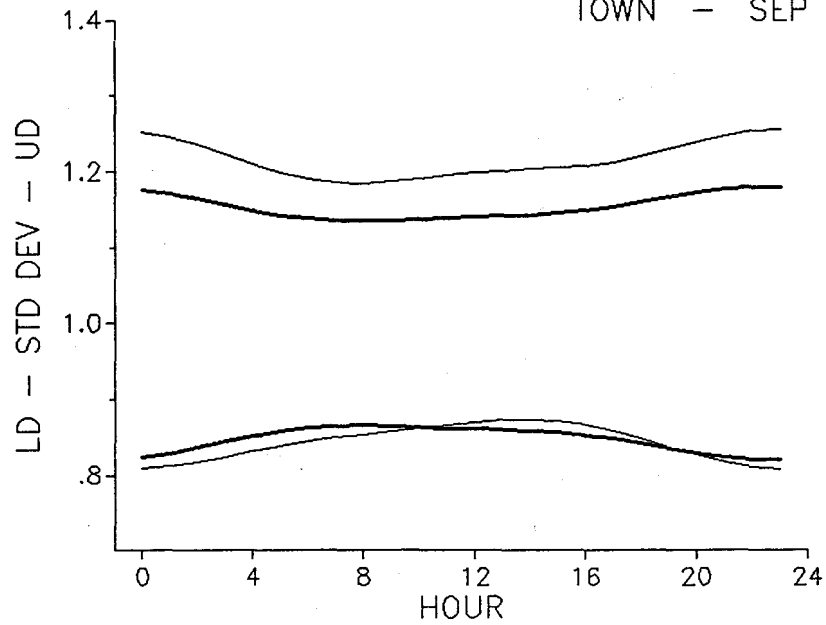
VANI - SEP



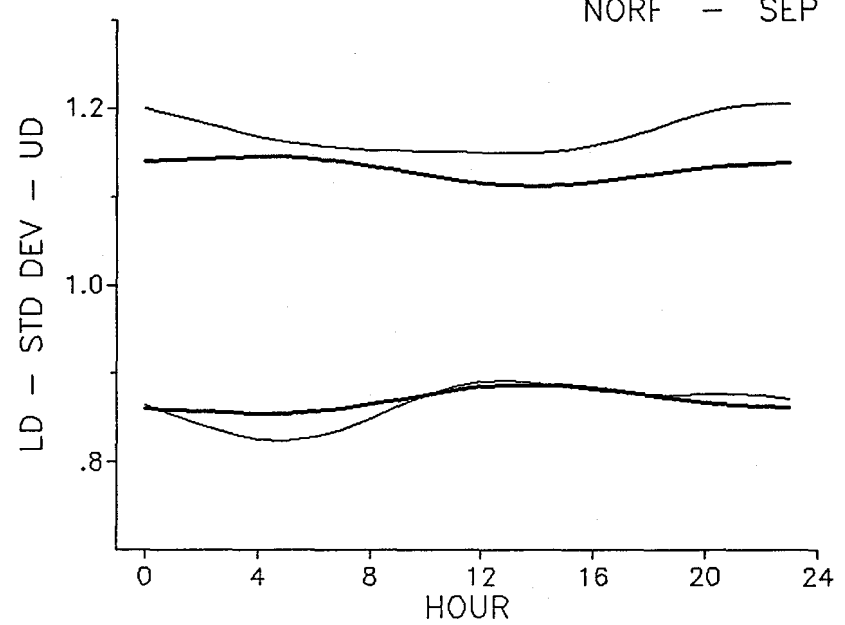
CONC - SEP



TOWN - SEP



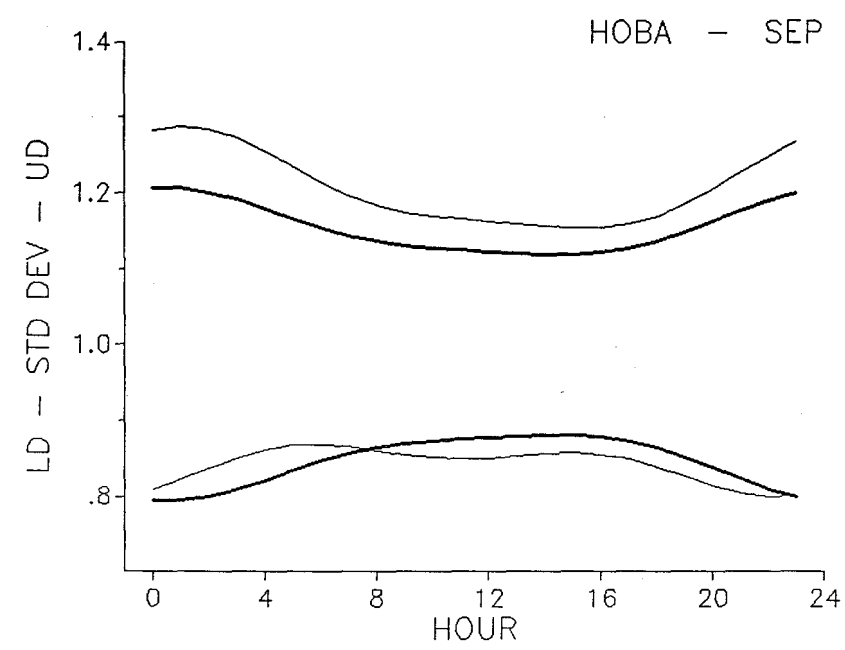
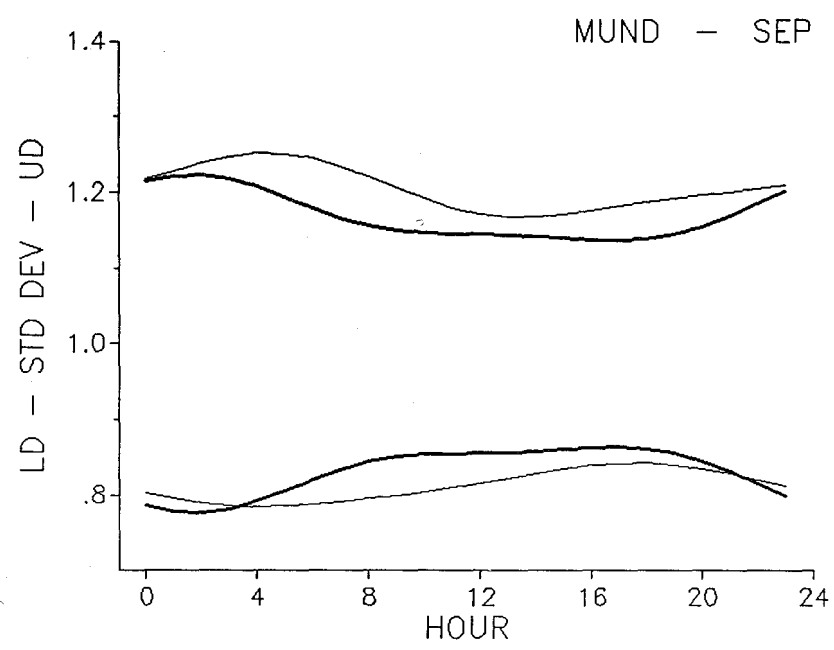
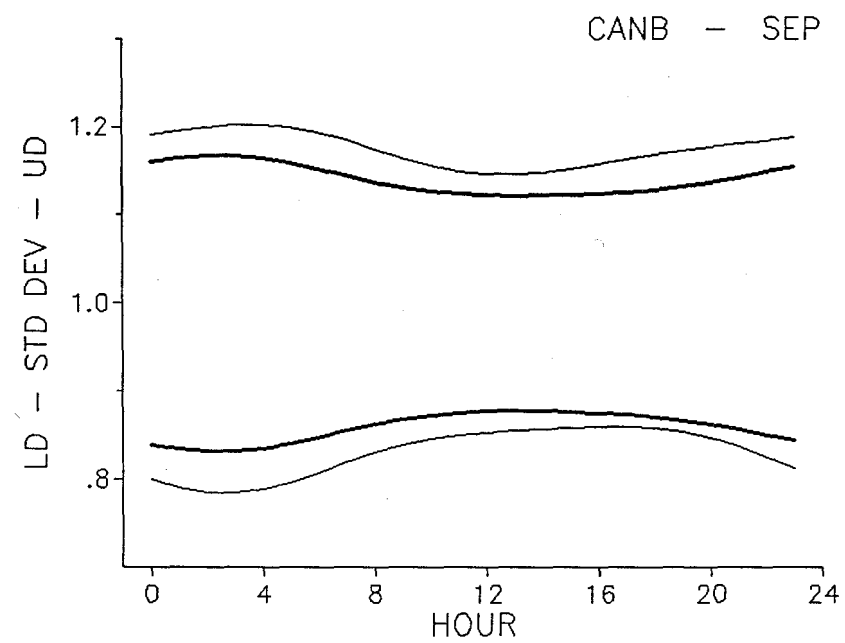
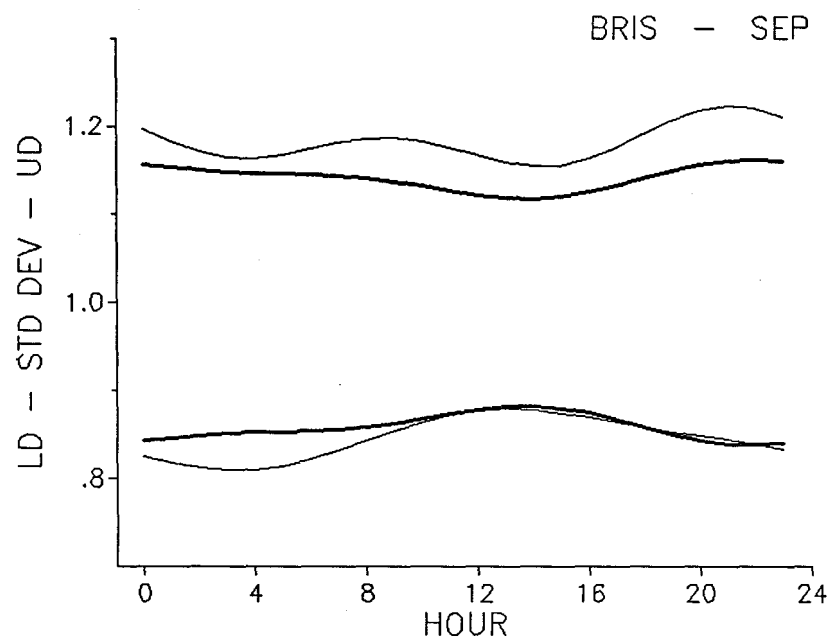
NORF - SEP



# ACTIVE MAGNETIC

# — — LOW SSN

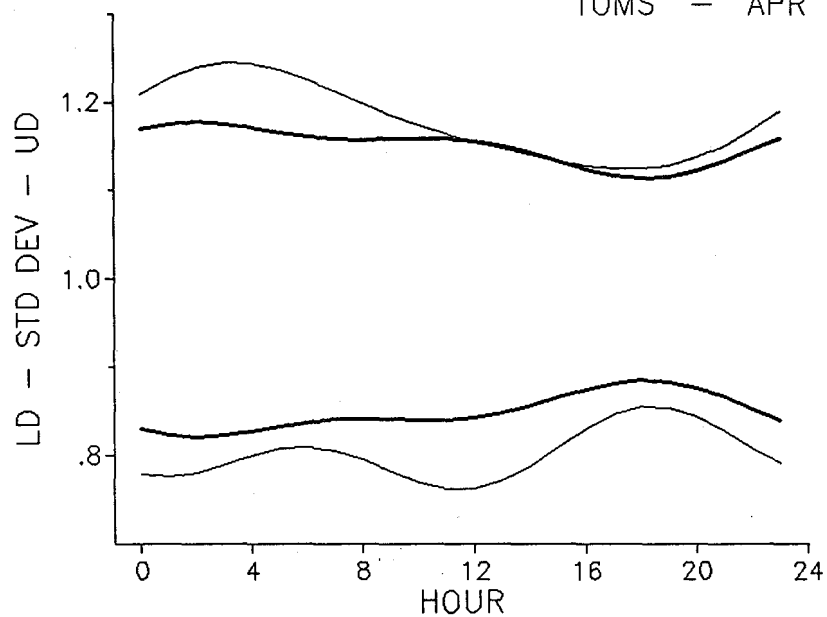
88



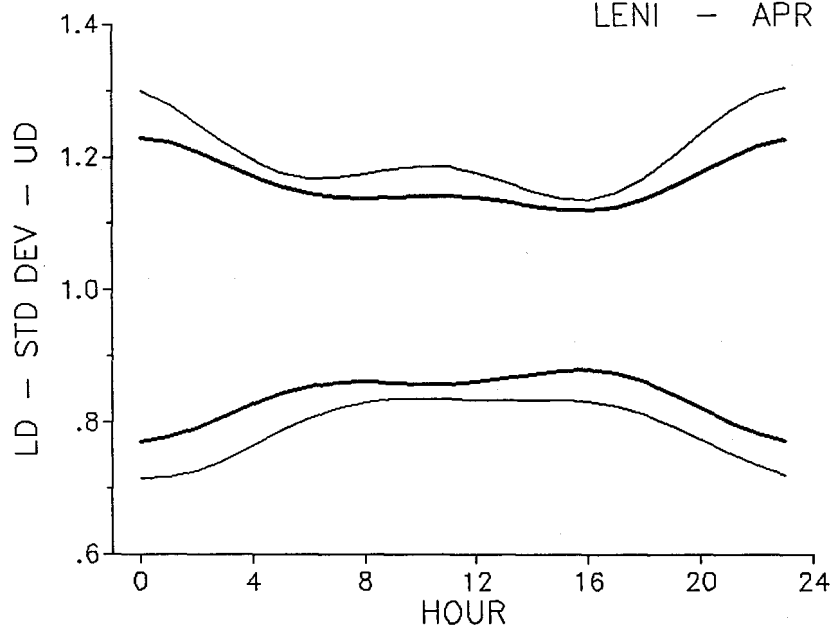
# ACTIVE MAGNETIC

# — — LOW SSN

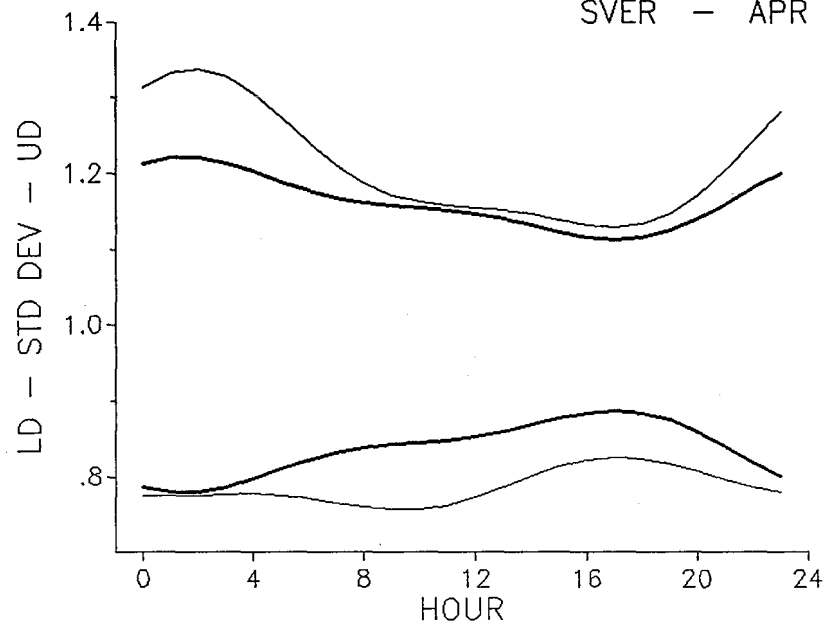
TOMS - APR



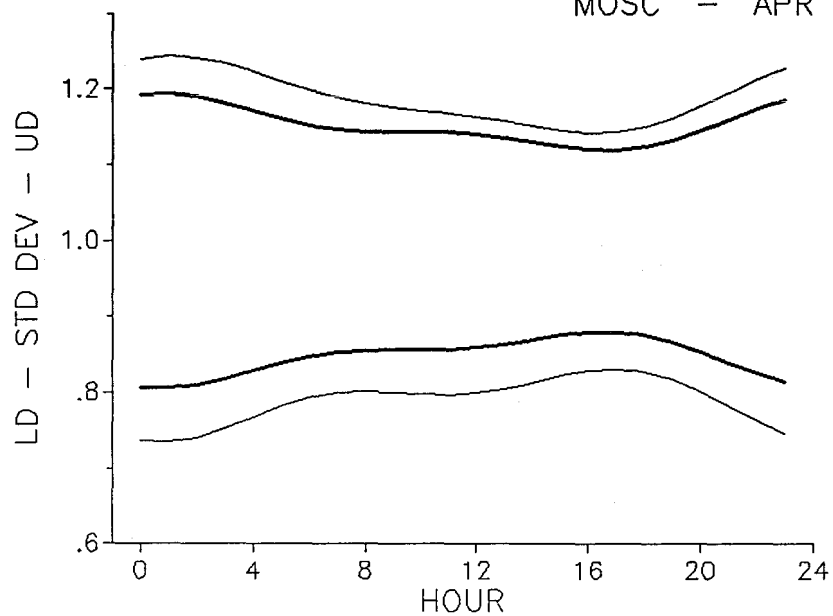
LENI - APR



SVER - APR



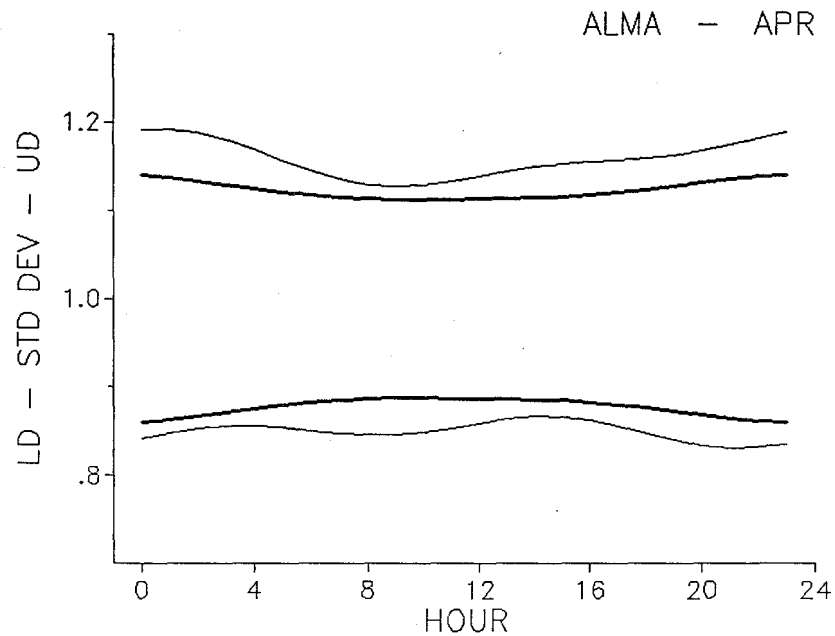
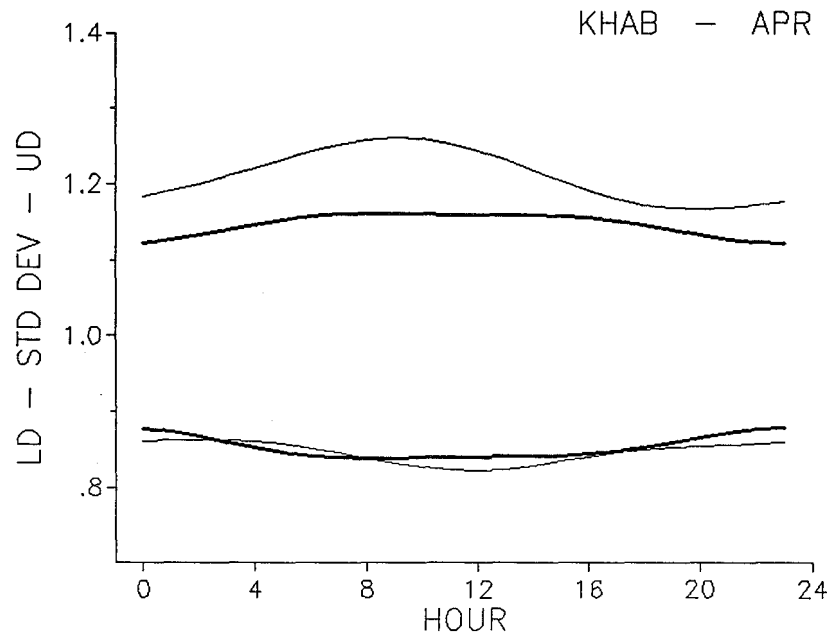
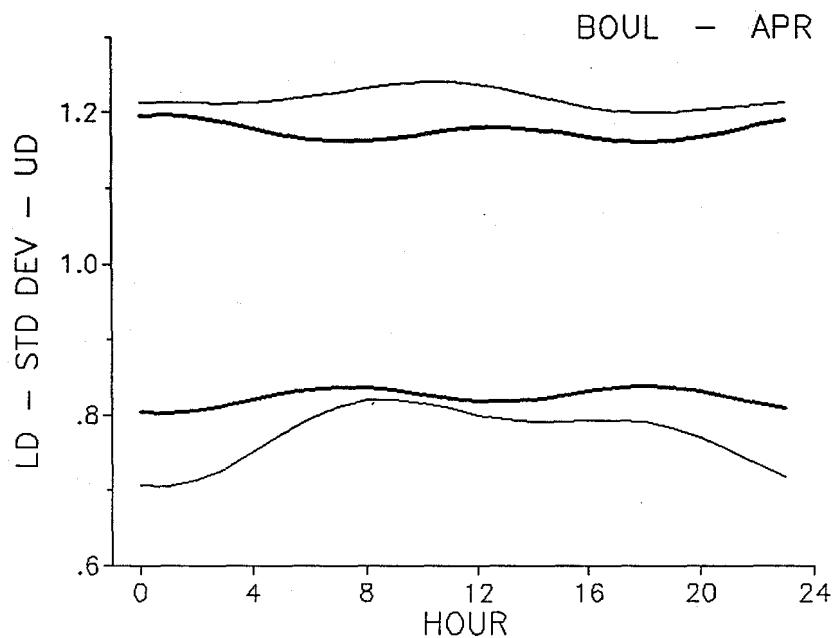
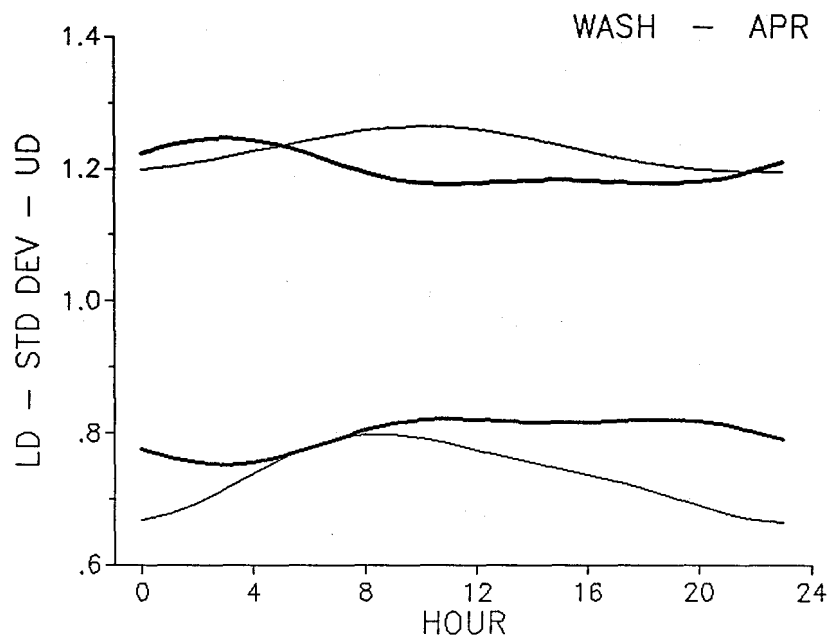
MOSC - APR



# ACTIVE MAGNETIC

# --- LOW SSN

06



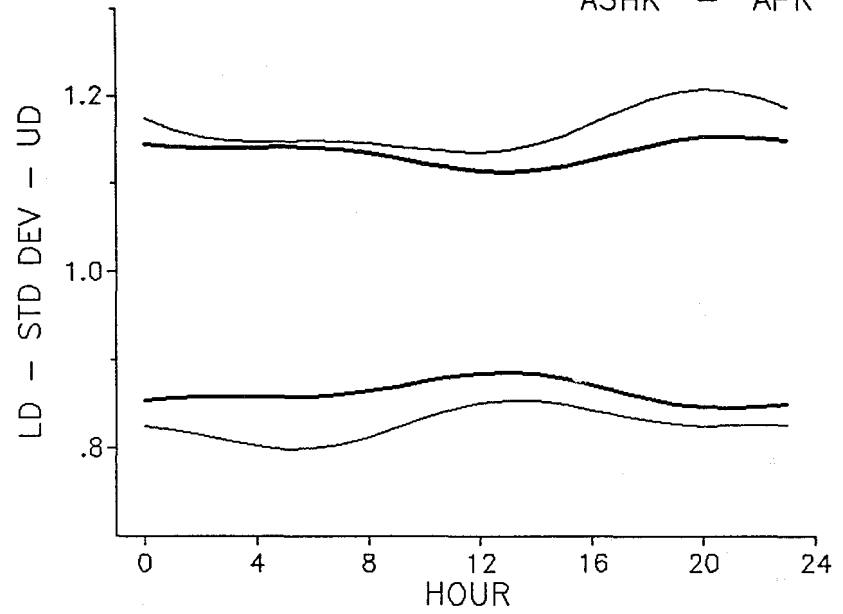
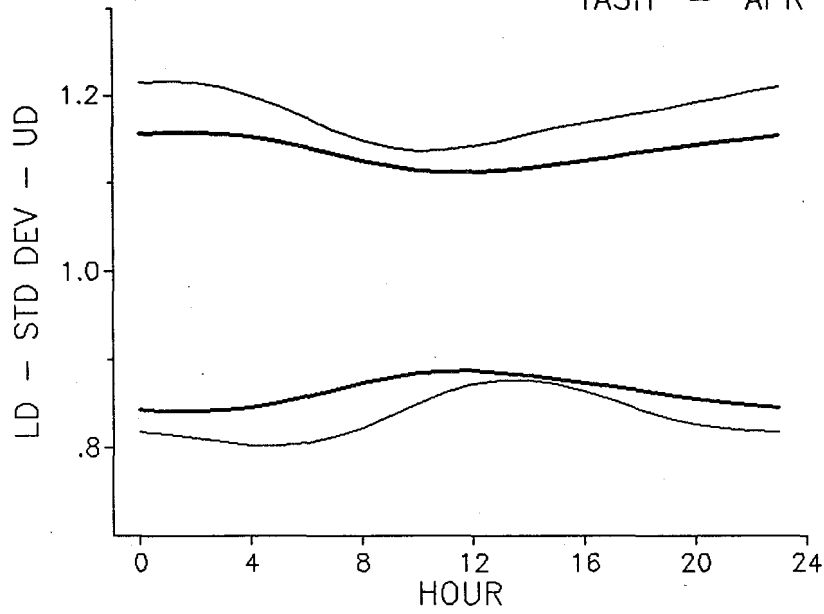


# ACTIVE MAGNETIC

# LOW SSN

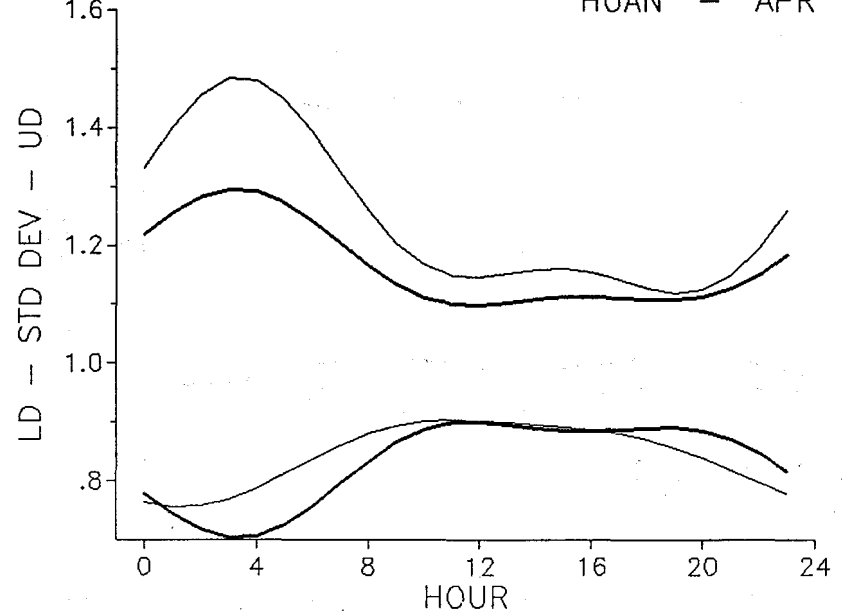
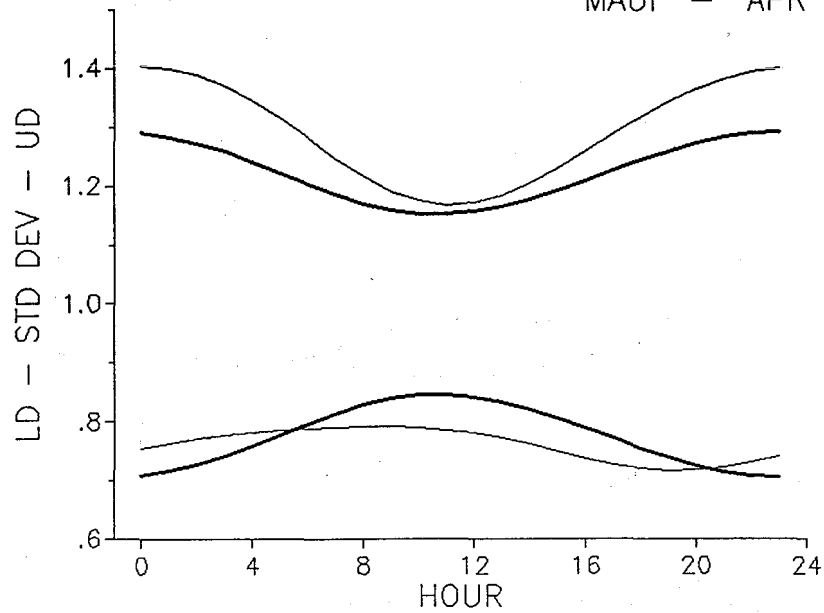
TASH - APR

ASHK - APR



MAUI - APR

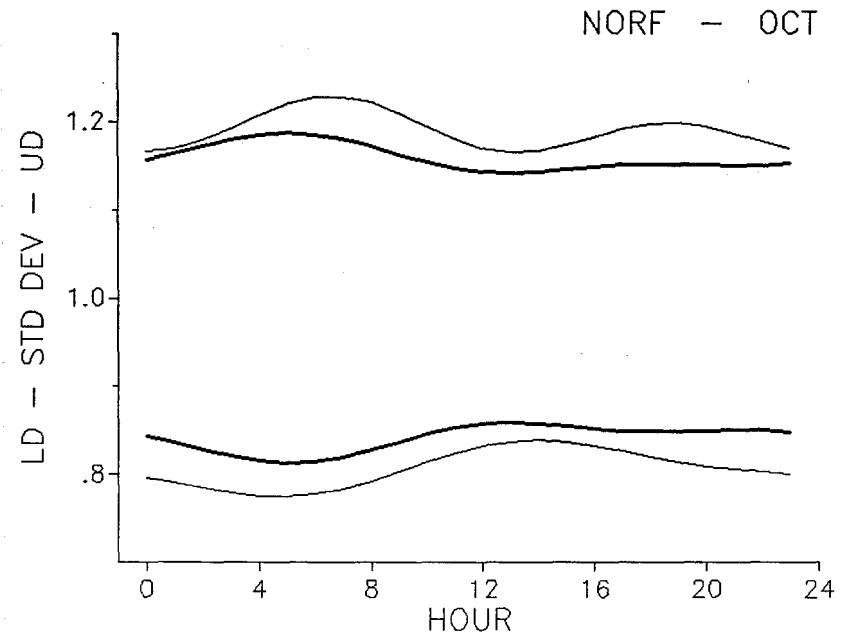
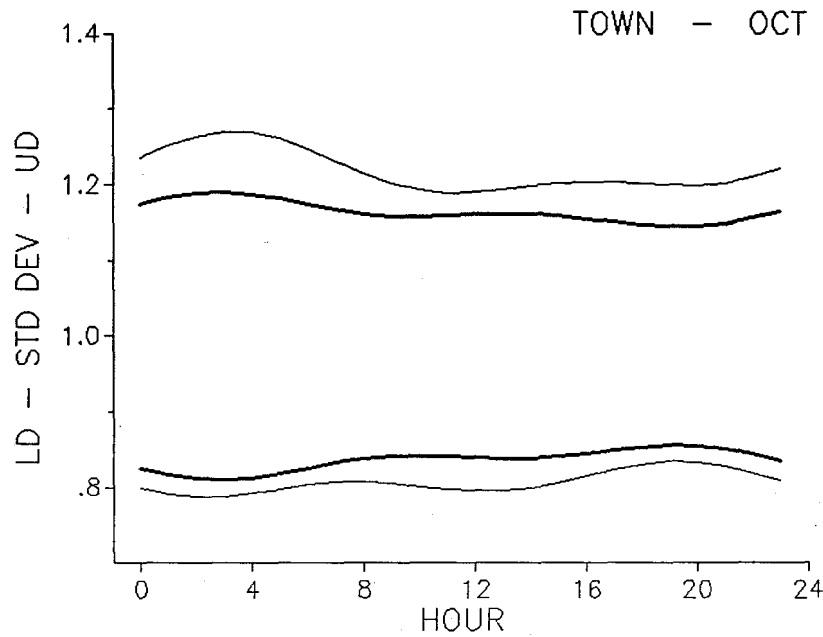
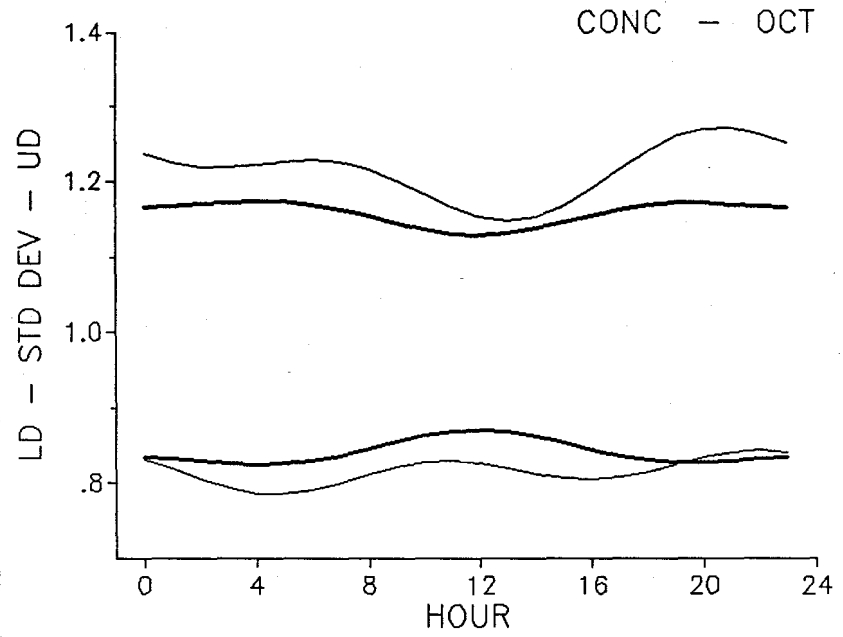
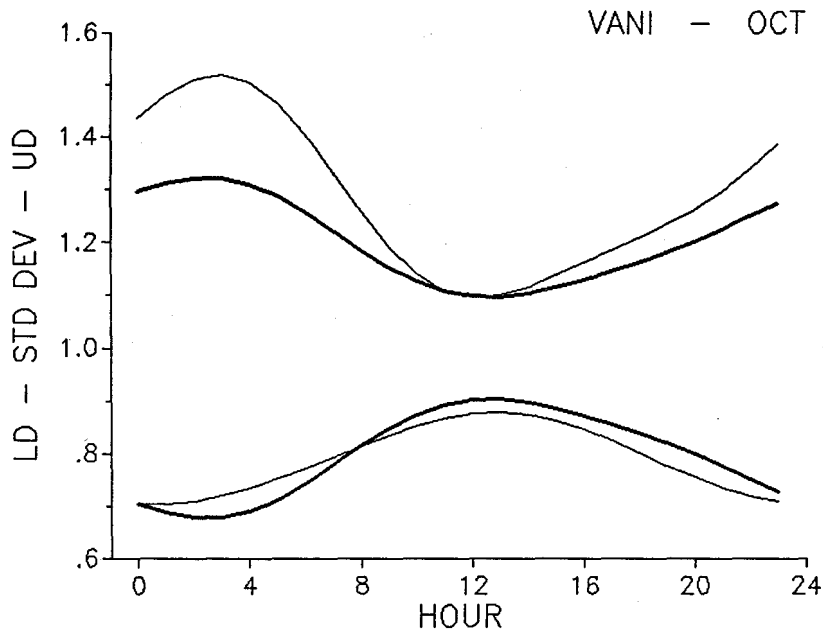
HUAN - APR



# ACTIVE MAGNETIC

# LOW SSN

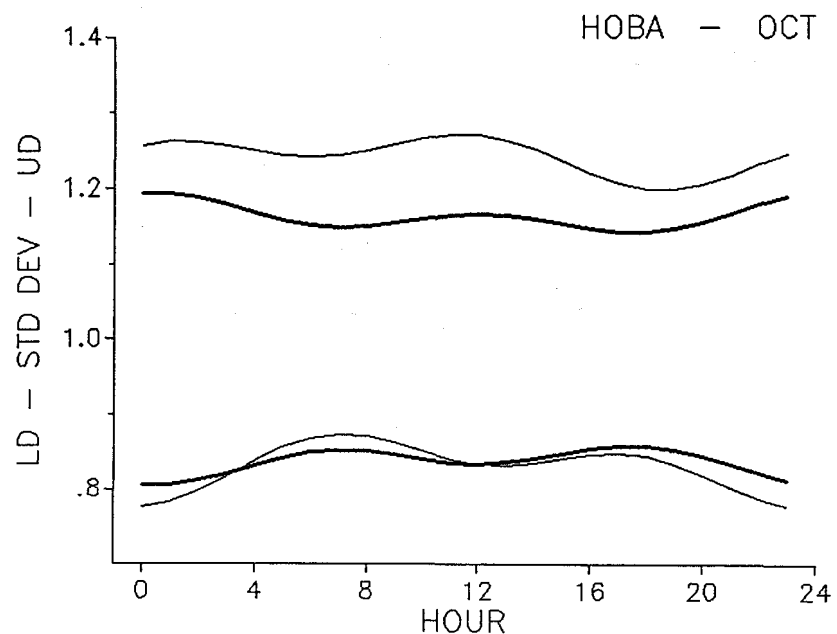
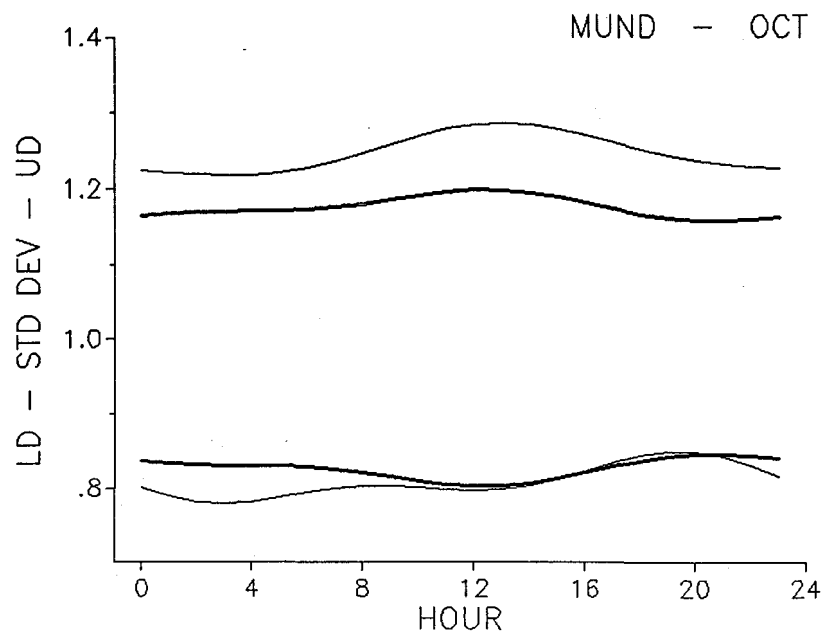
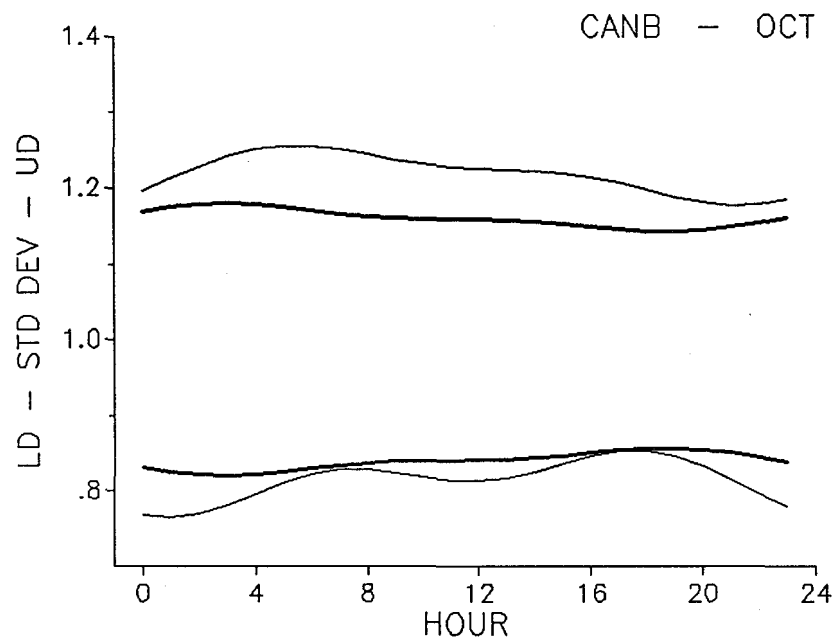
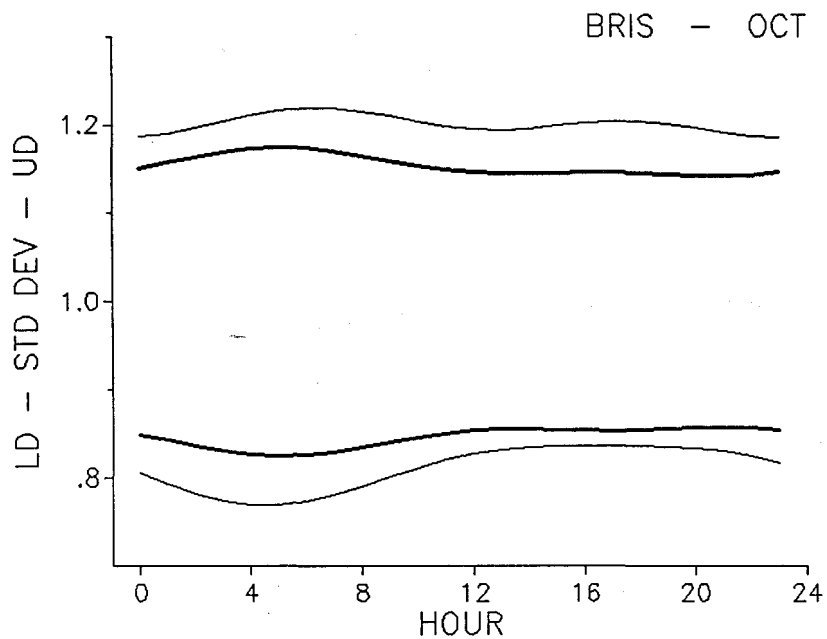
92



# ACTIVE MAGNETIC

# LOW SSN

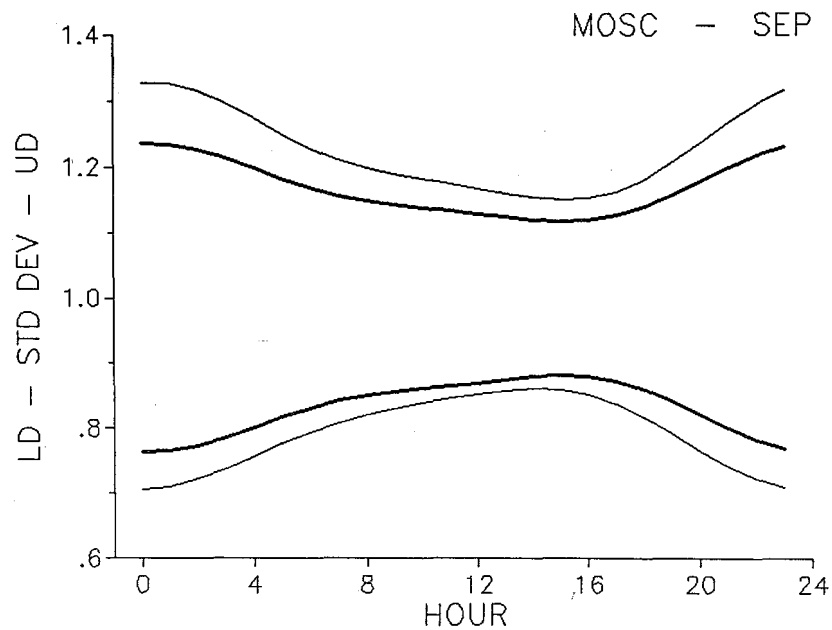
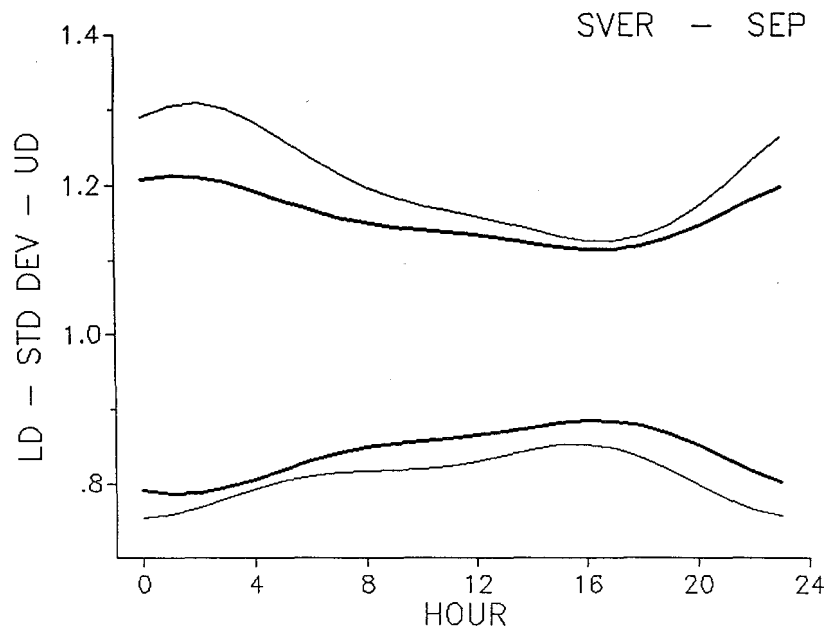
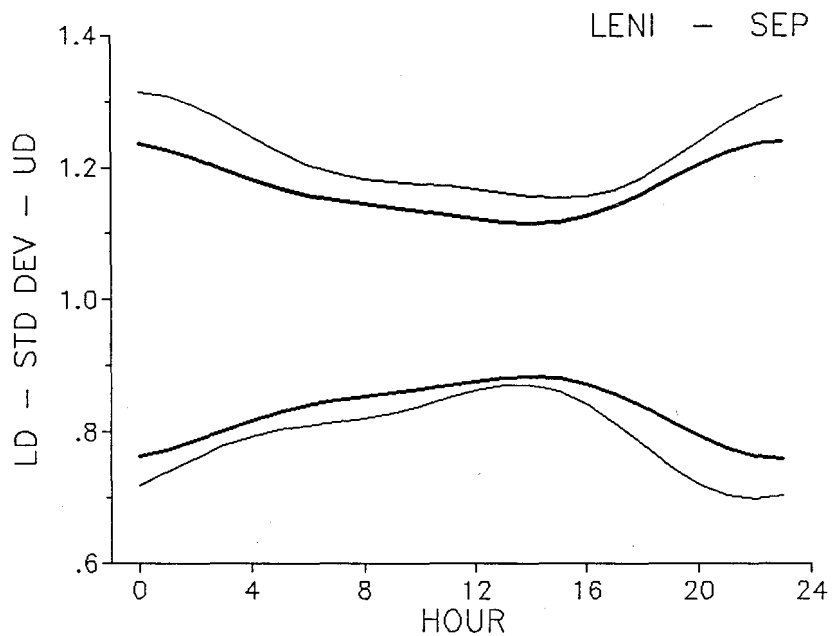
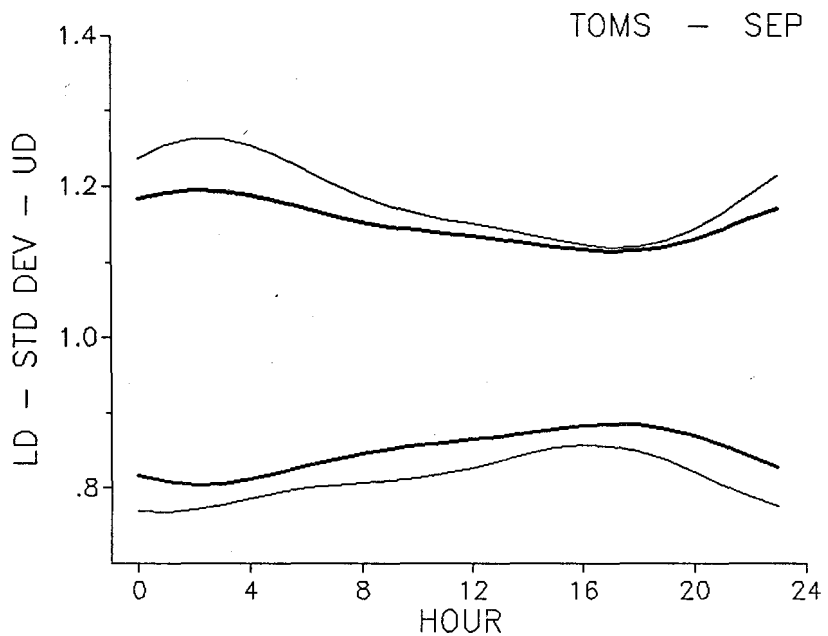
96



ACTIVE MAGNETIC

— — LOW SSN

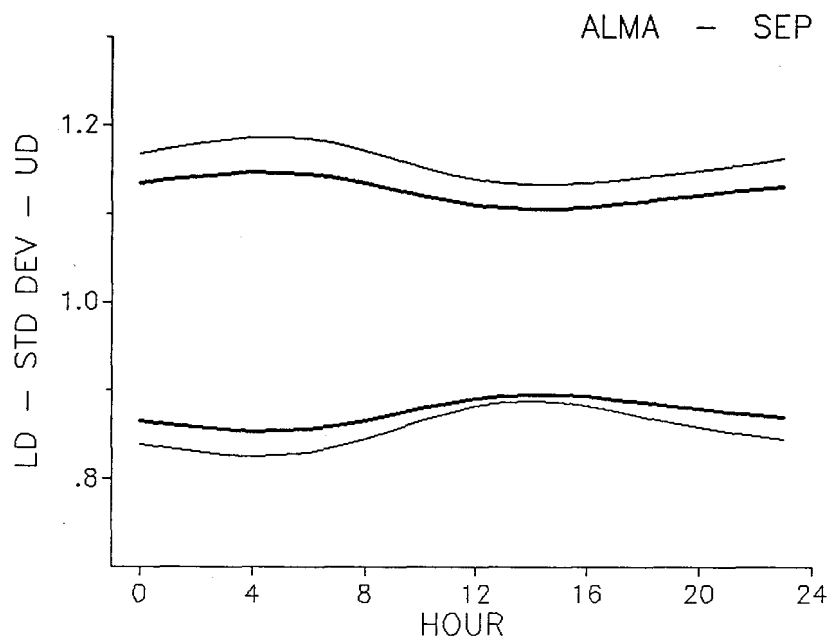
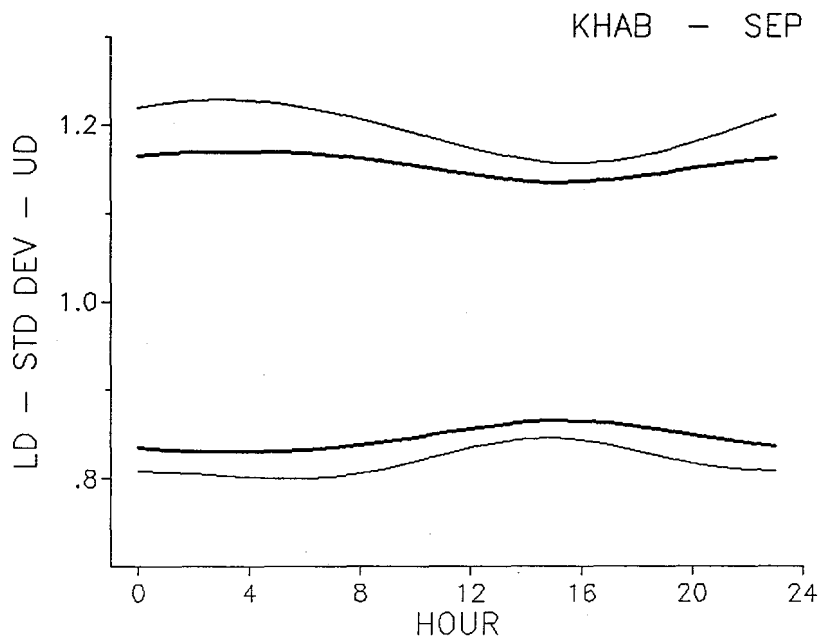
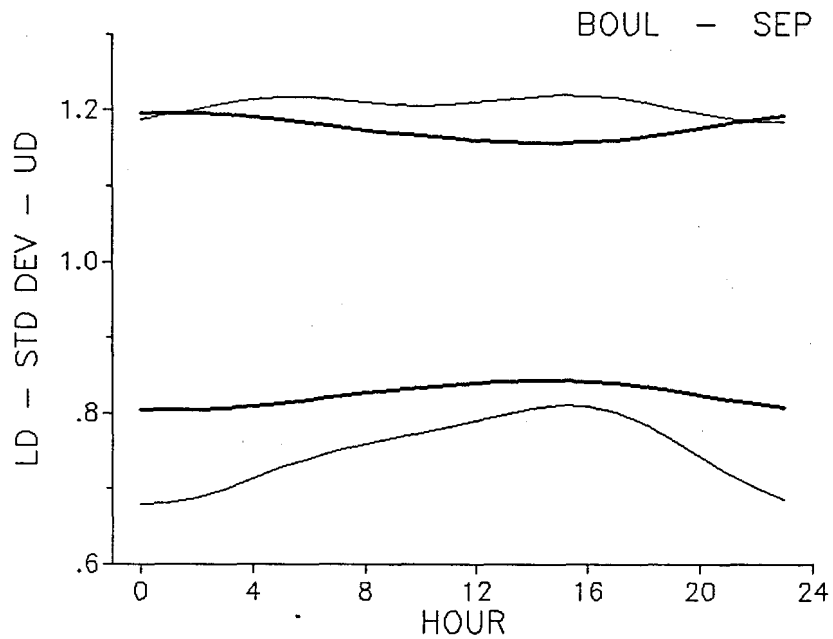
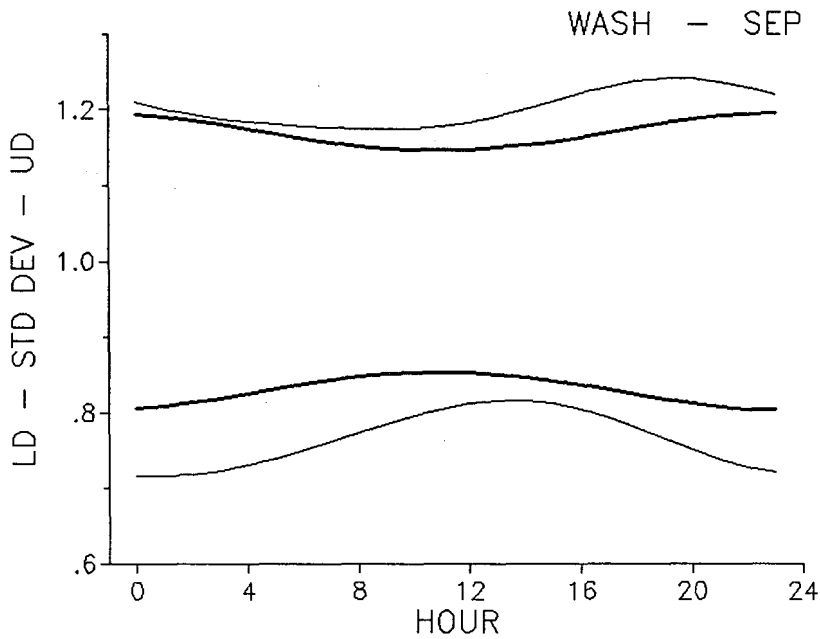
94



ACTIVE MAGNETIC

— — LOW SSN

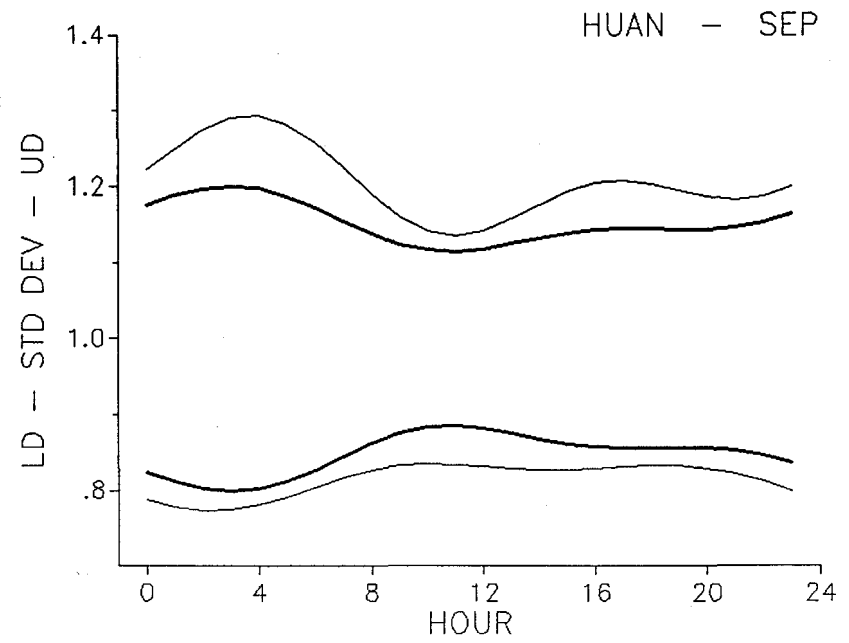
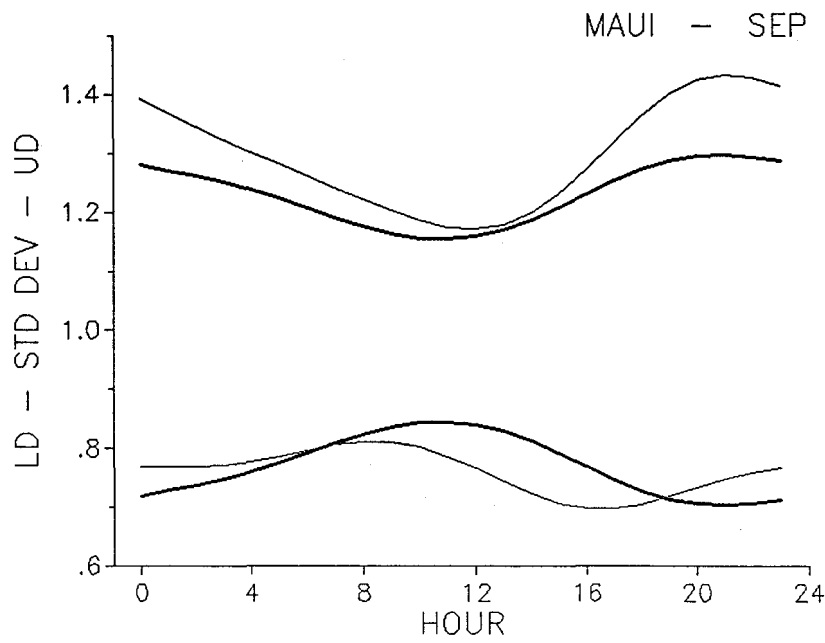
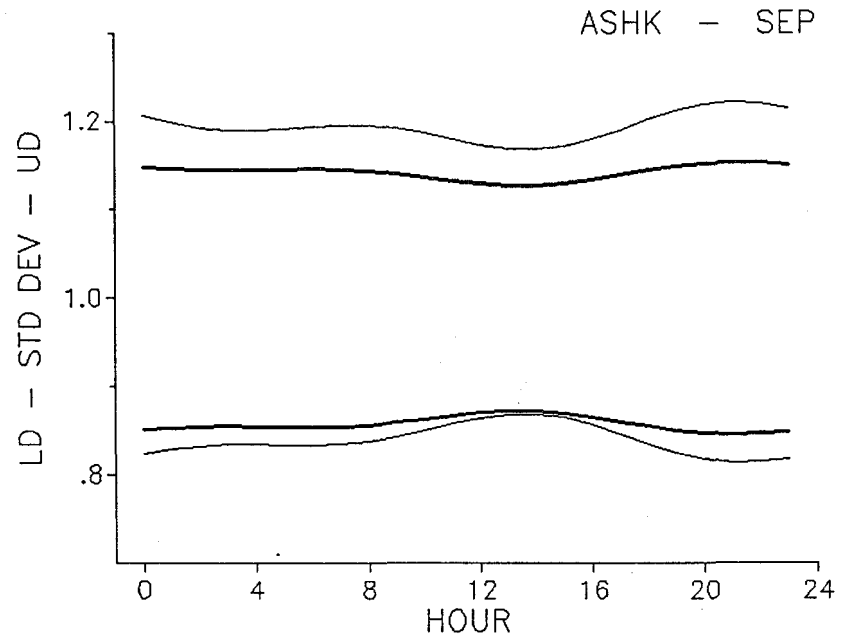
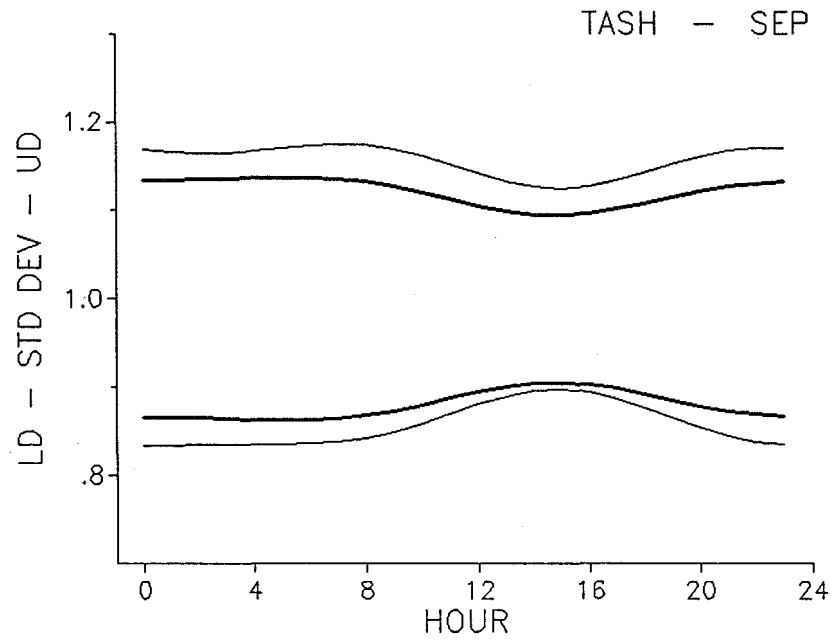
96



# ACTIVE MAGNETIC

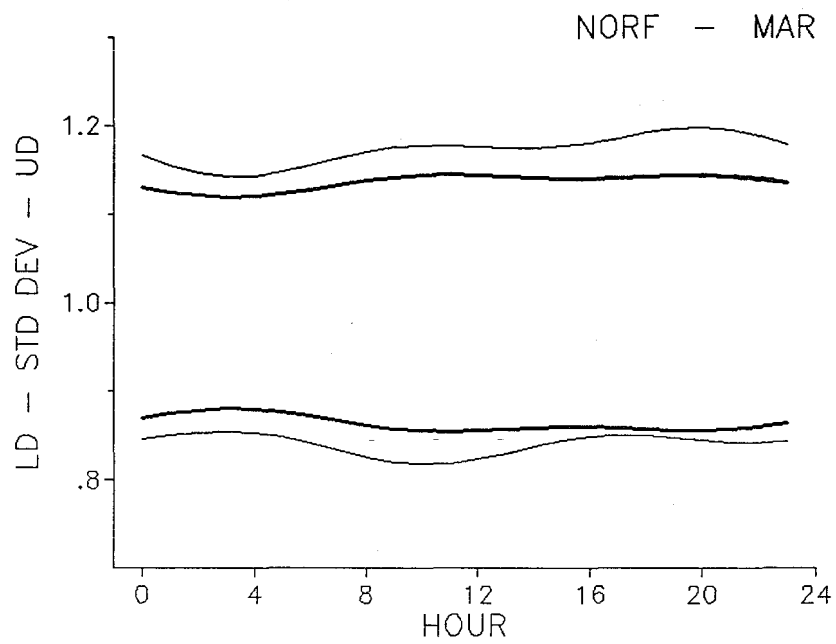
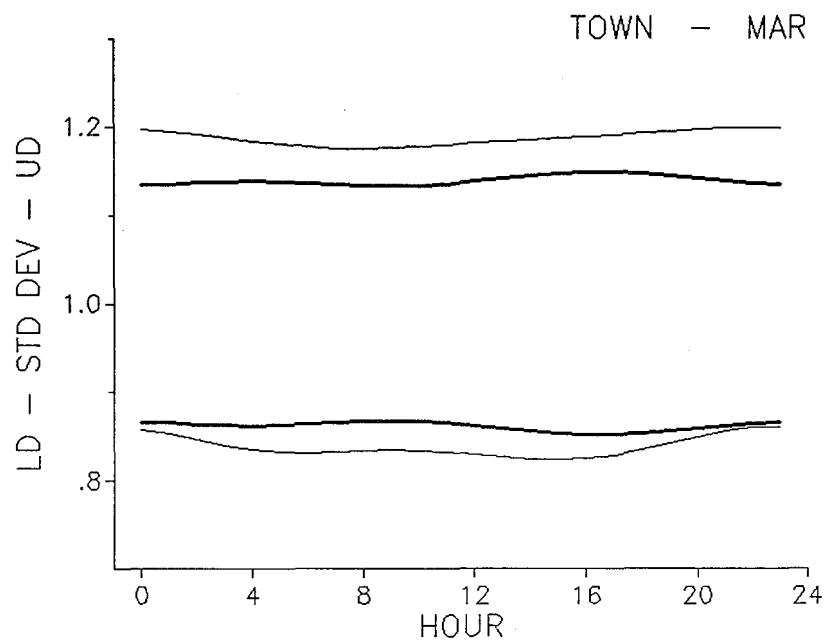
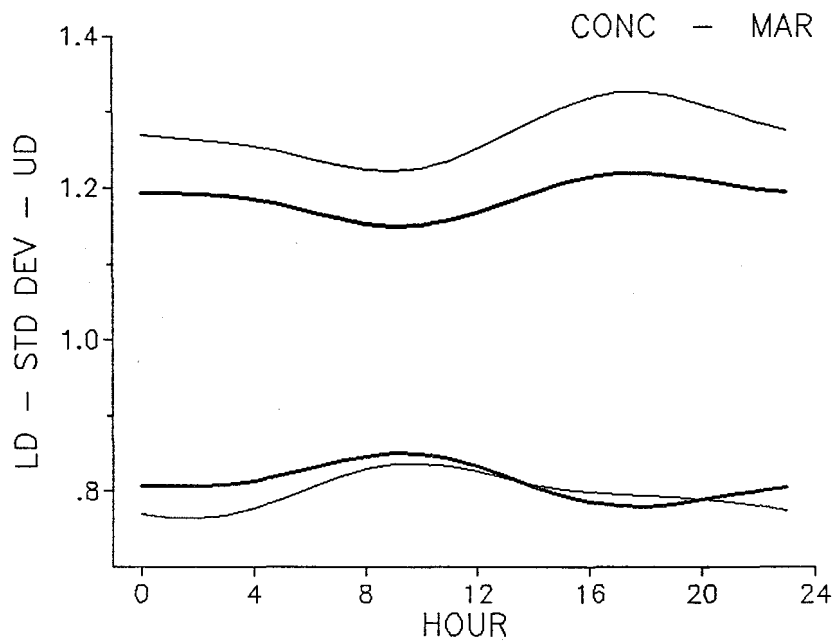
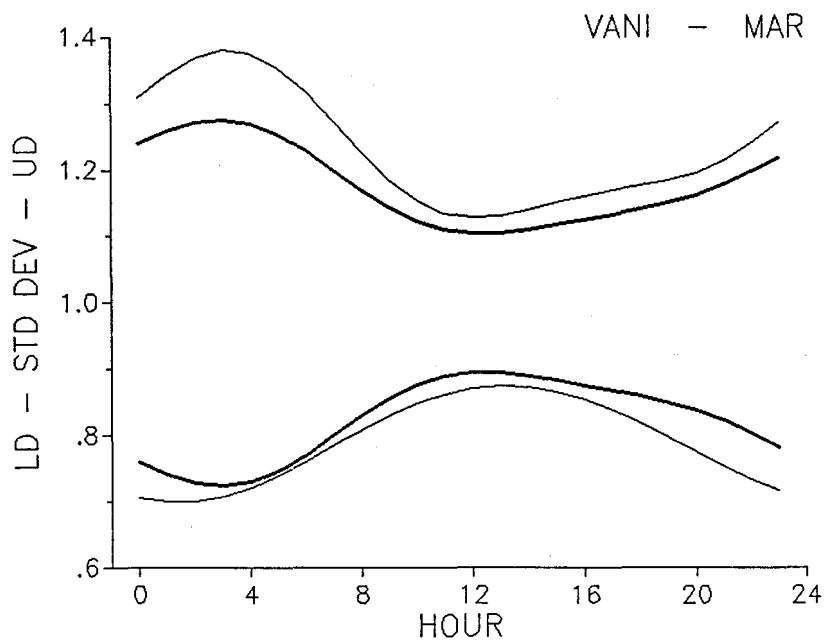
# LOW SSN

96



# ACTIVE MAGNETIC

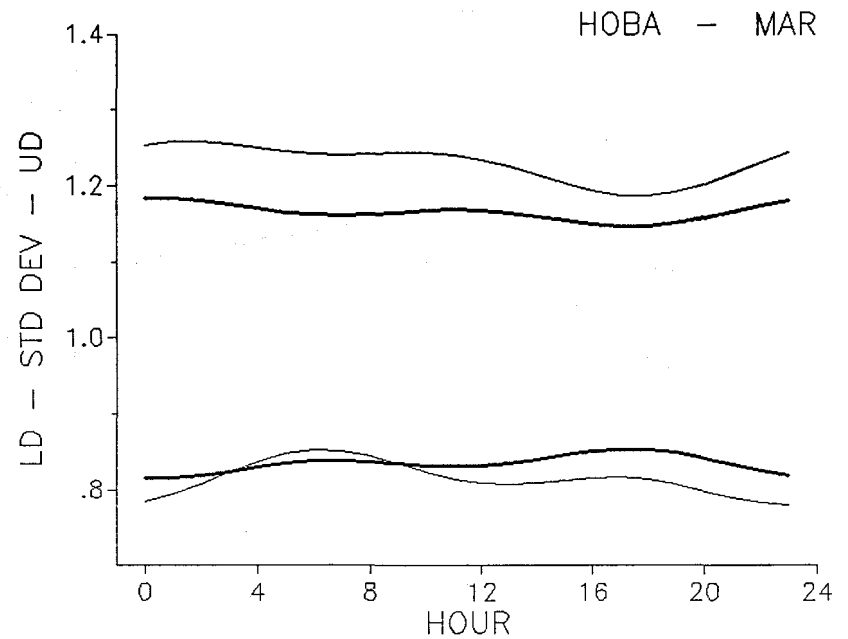
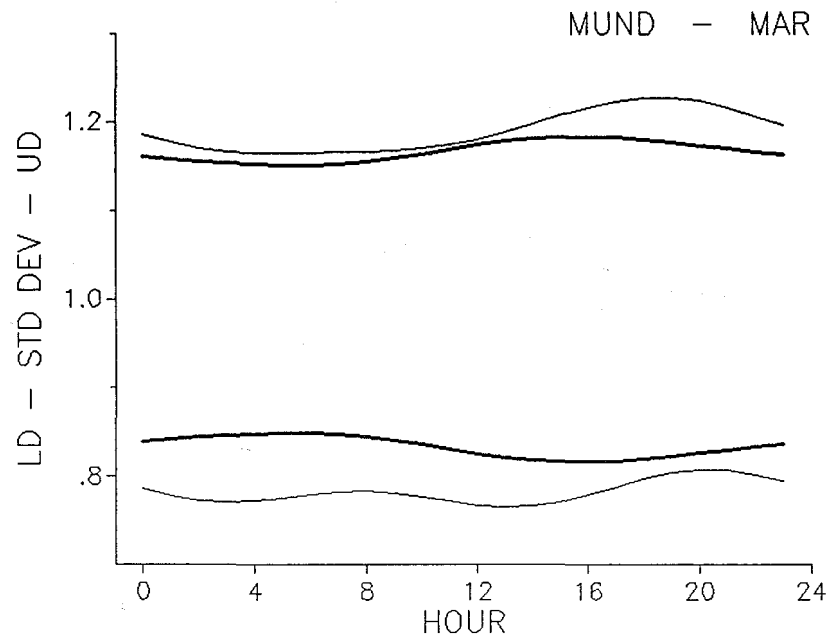
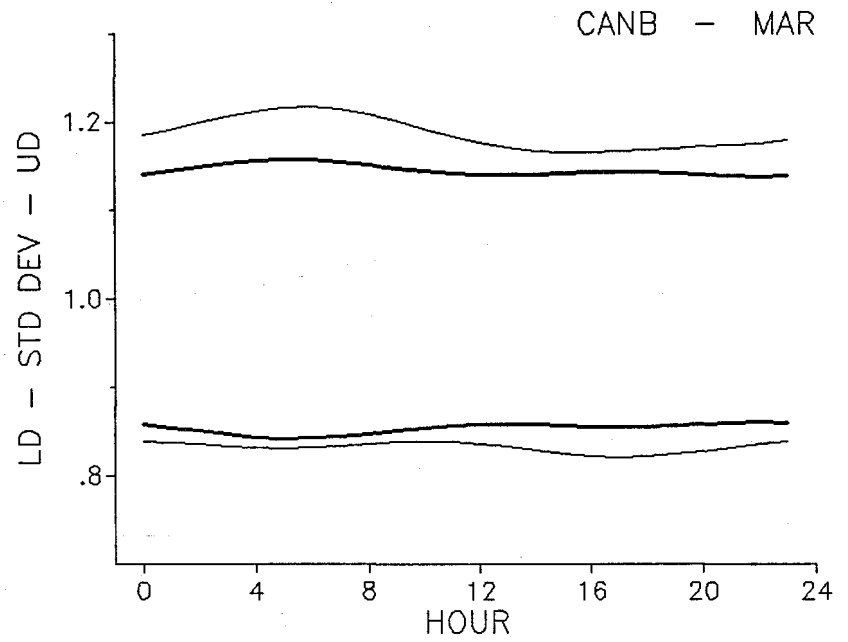
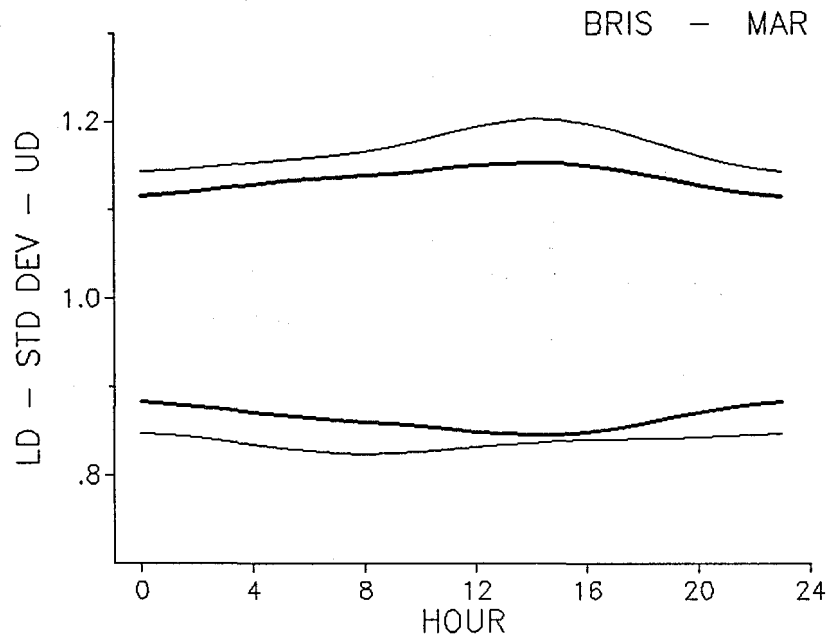
# -- -- LOW SSN



# ACTIVE MAGNETIC

# LOW SSN

86

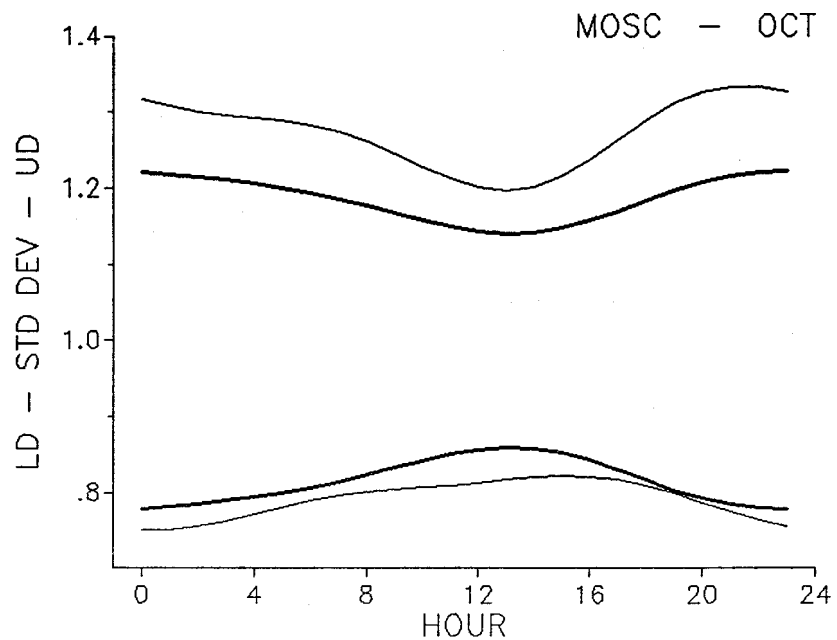
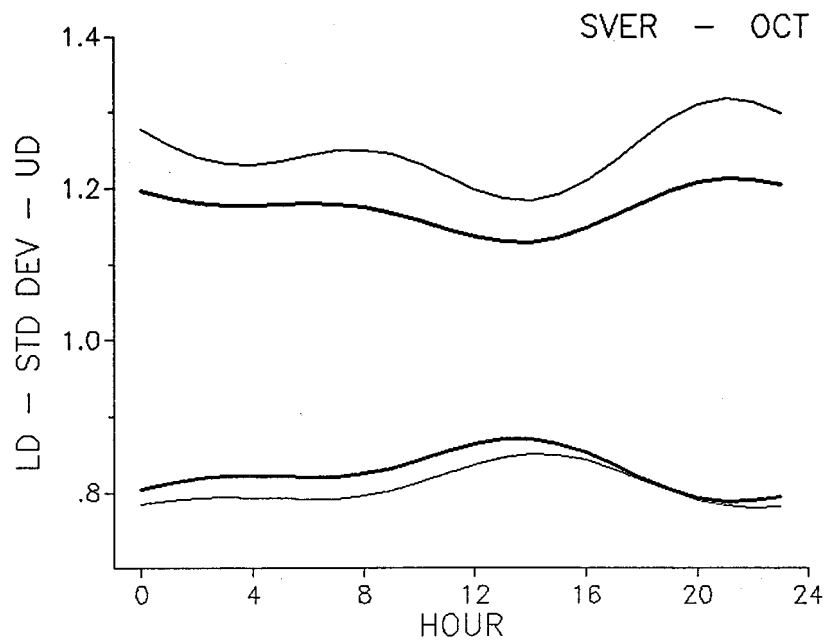
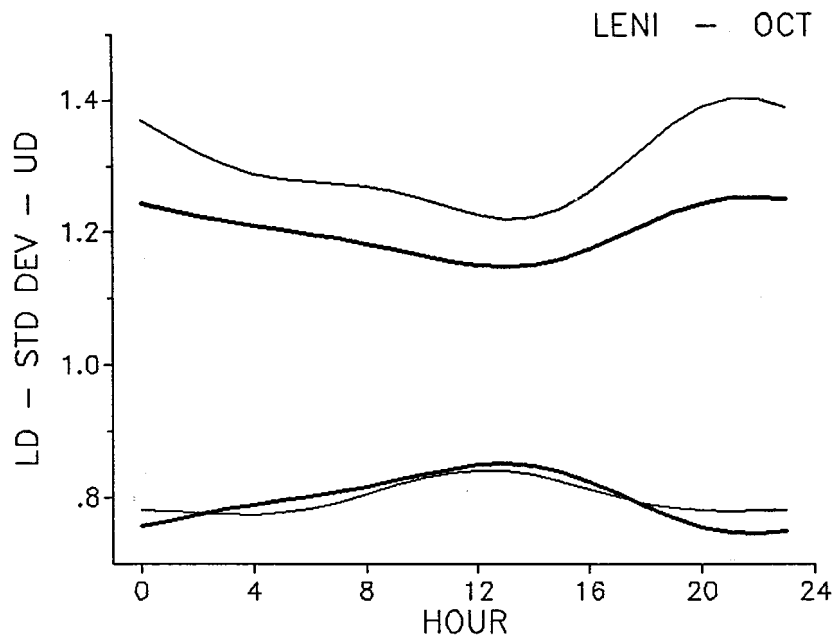
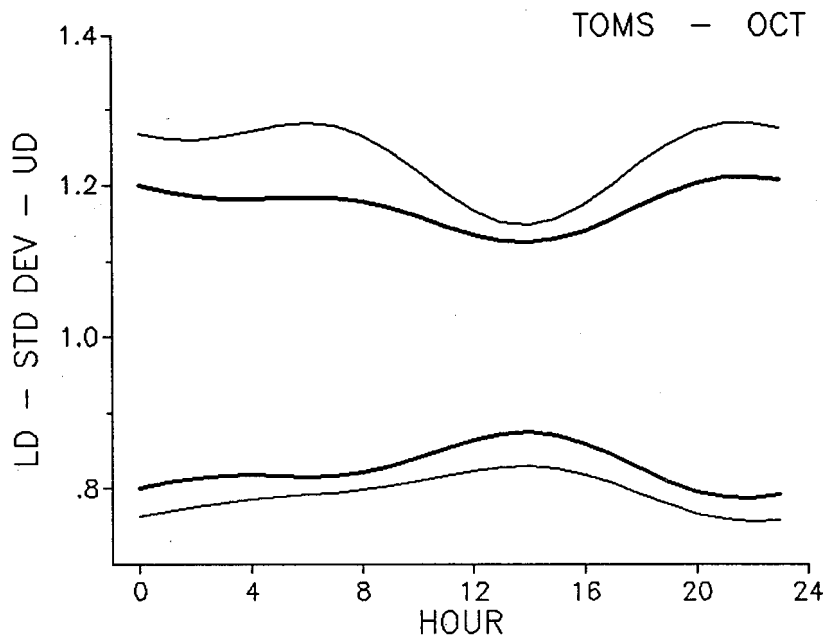




# ACTIVE MAGNETIC

# LOW SSN

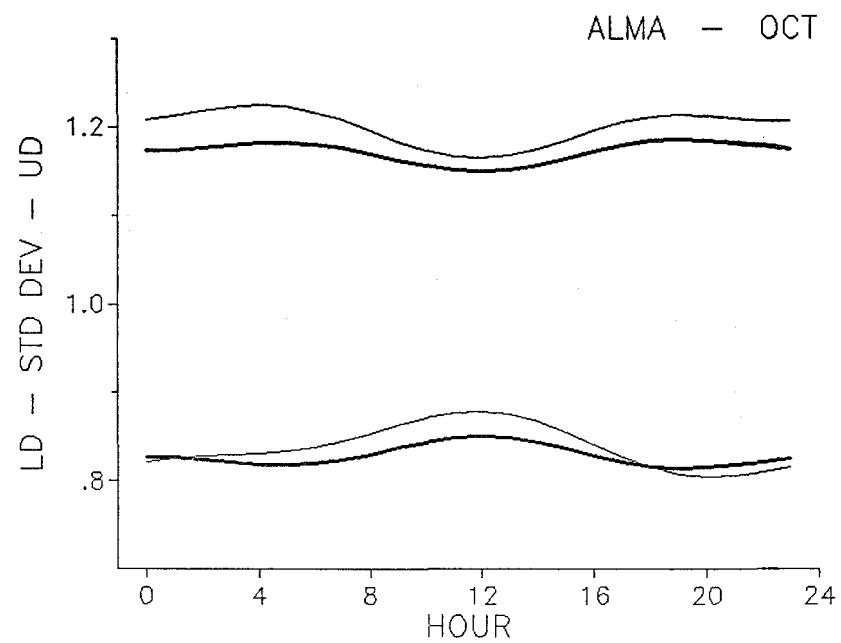
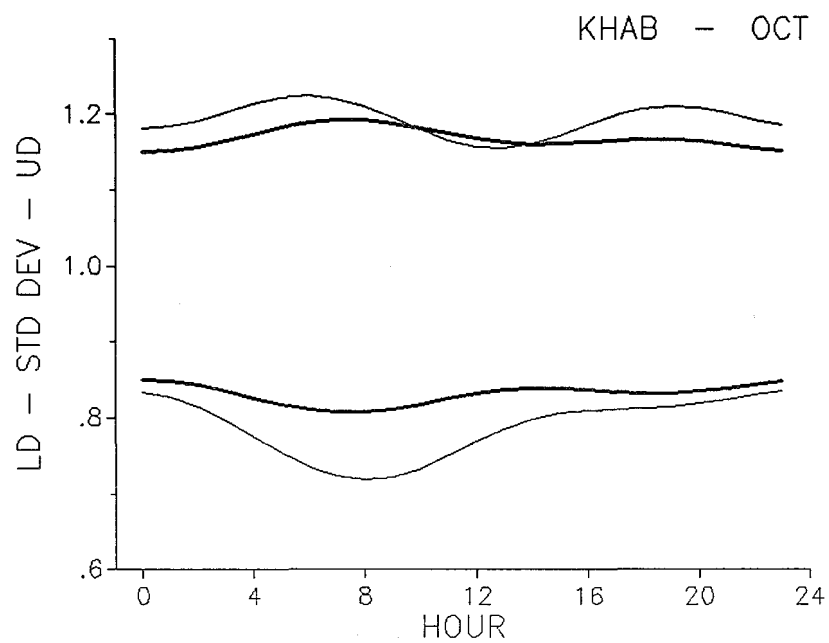
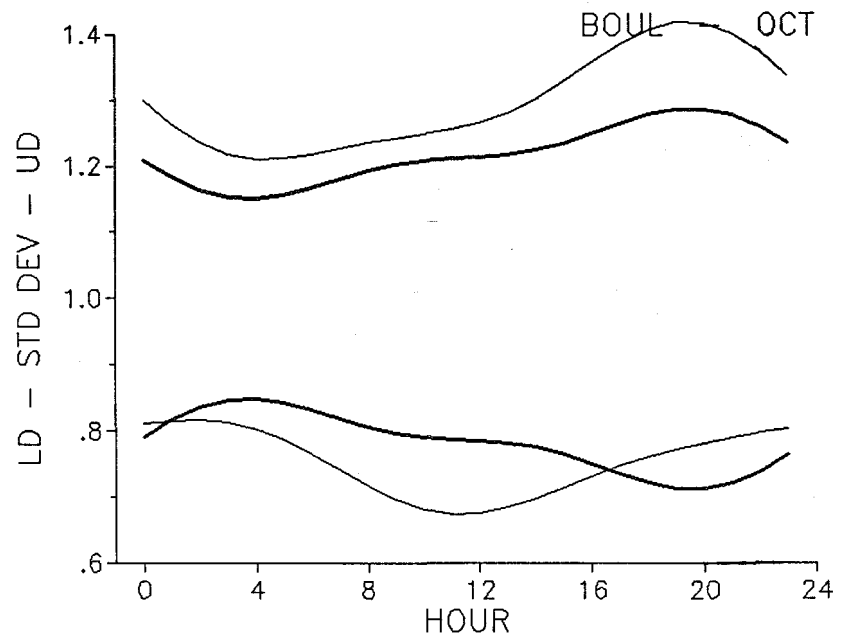
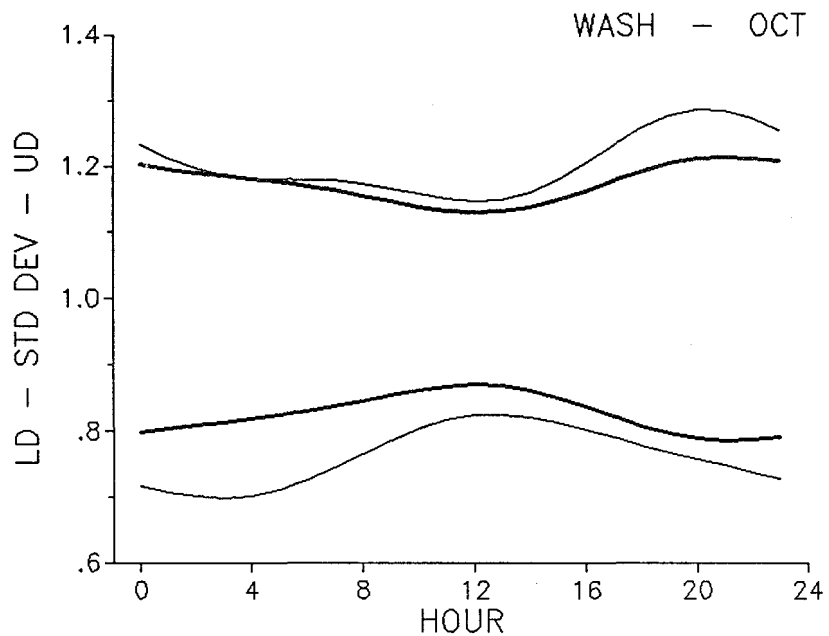
66



# ACTIVE MAGNETIC

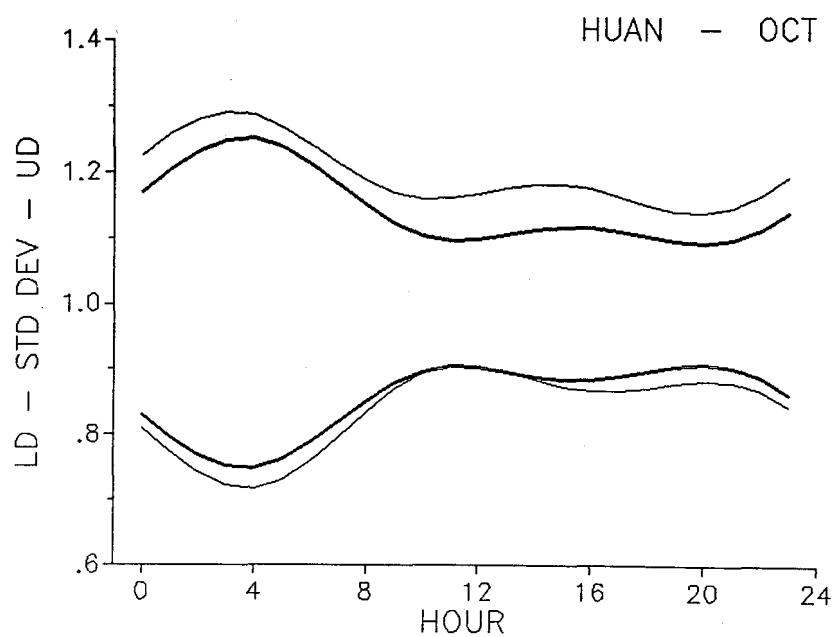
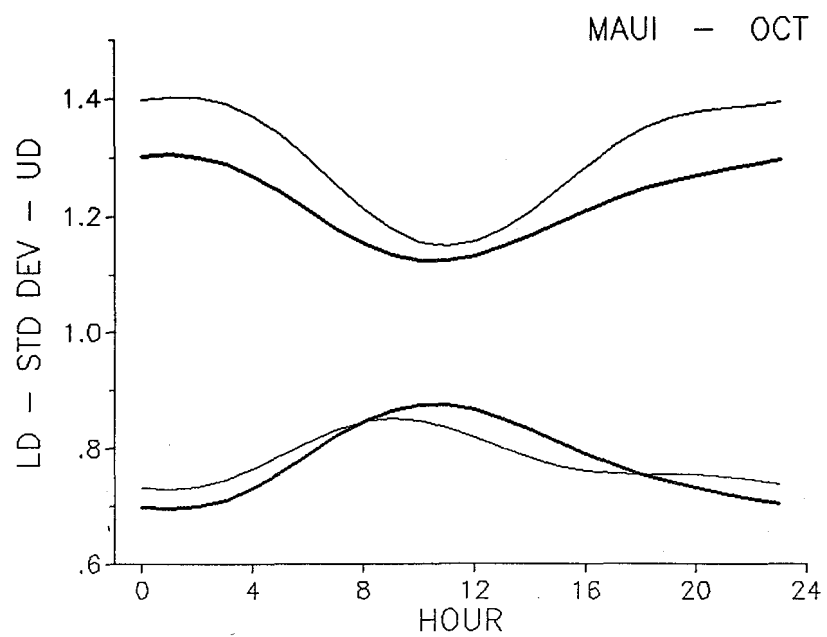
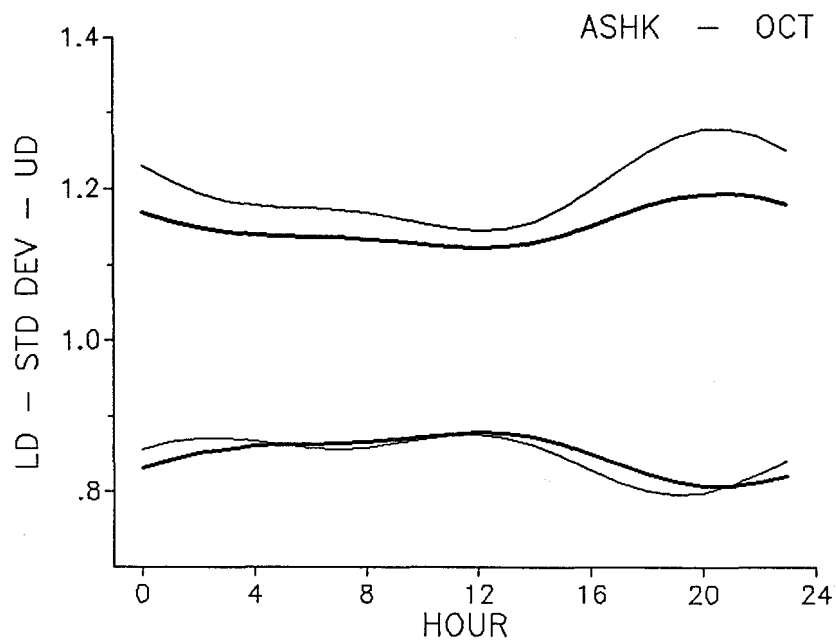
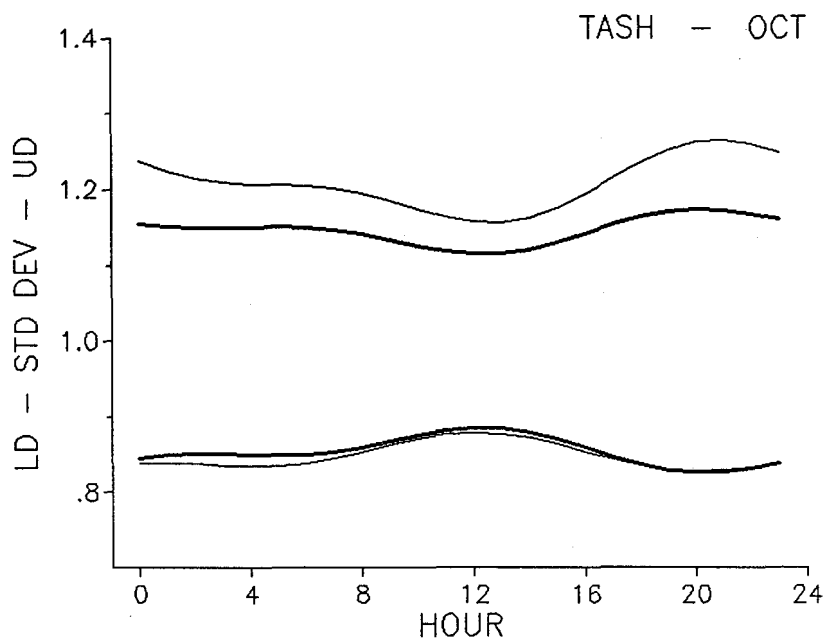
# LOW SSN

100



# ACTIVE MAGNETIC

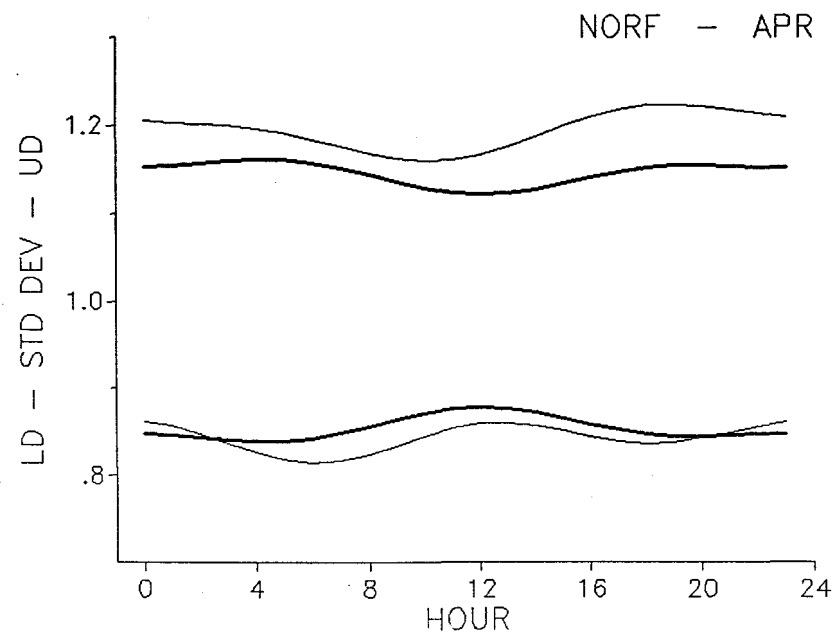
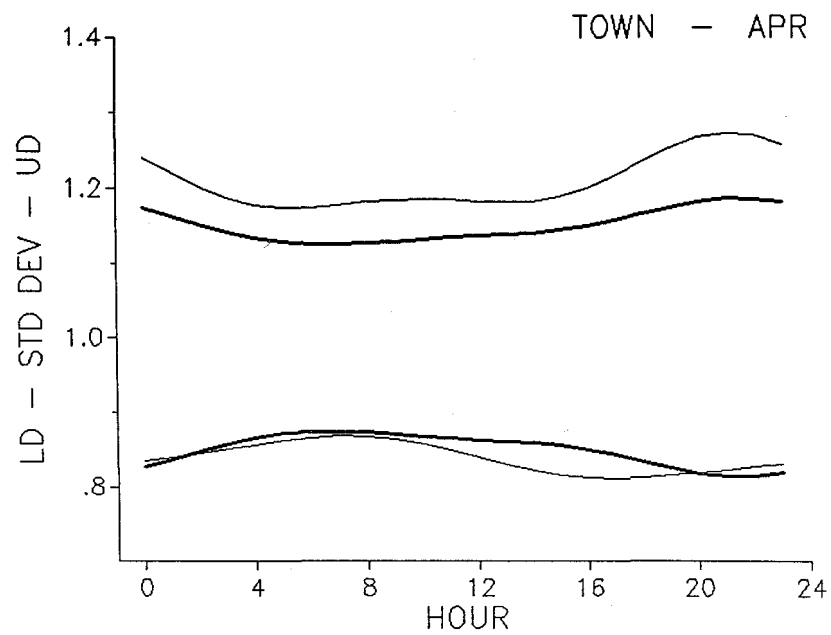
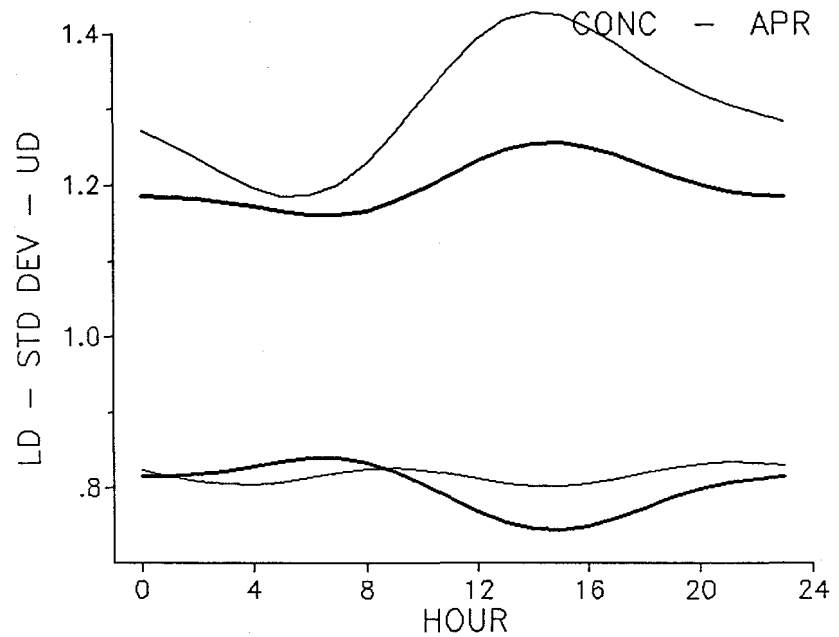
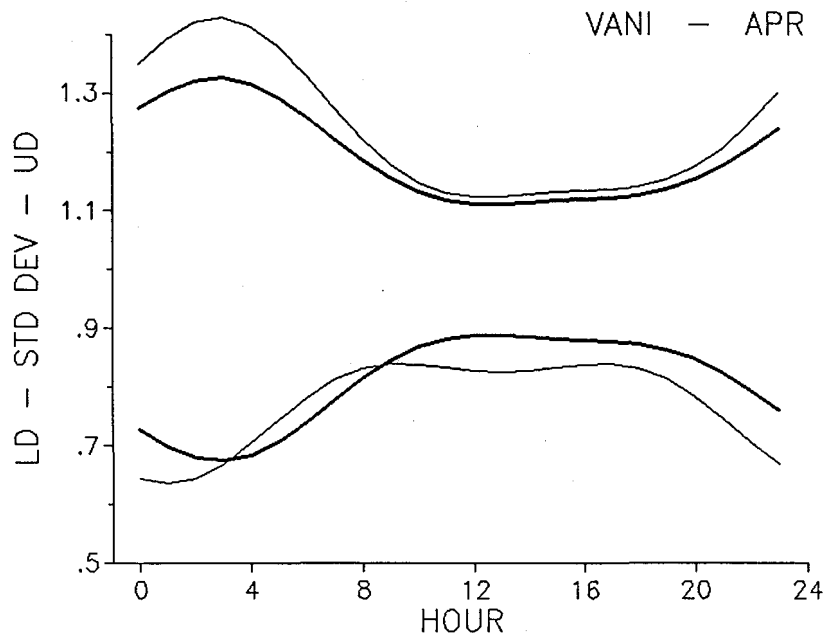
# LOW SSN



# ACTIVE MAGNETIC

# LOW SSN

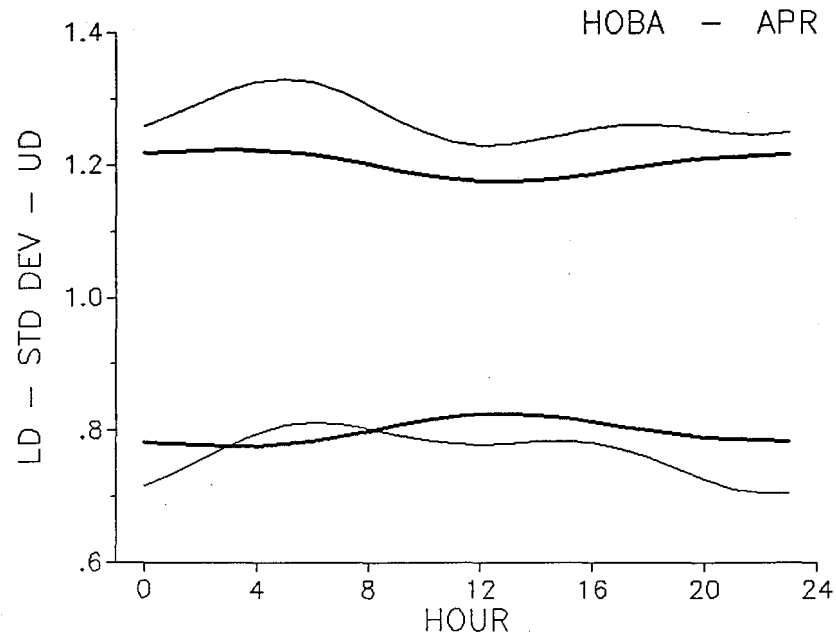
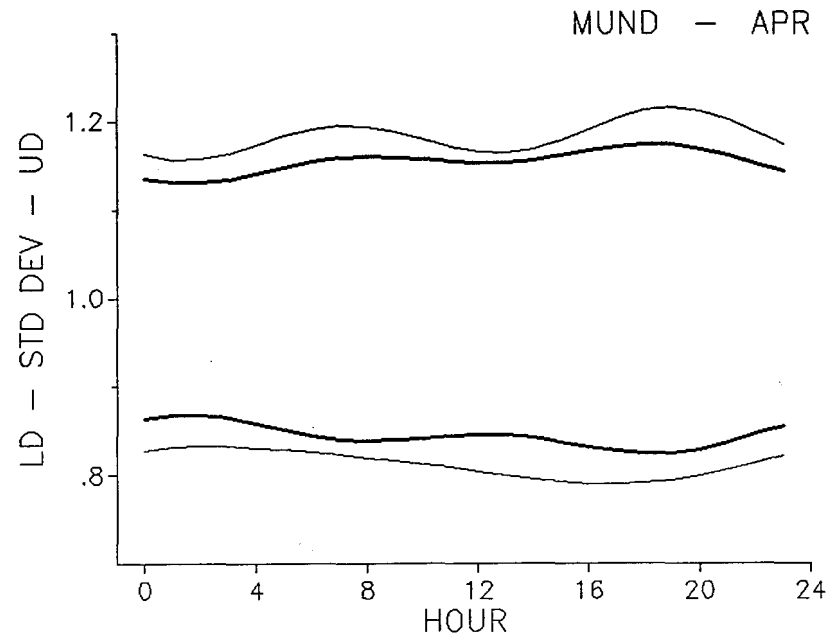
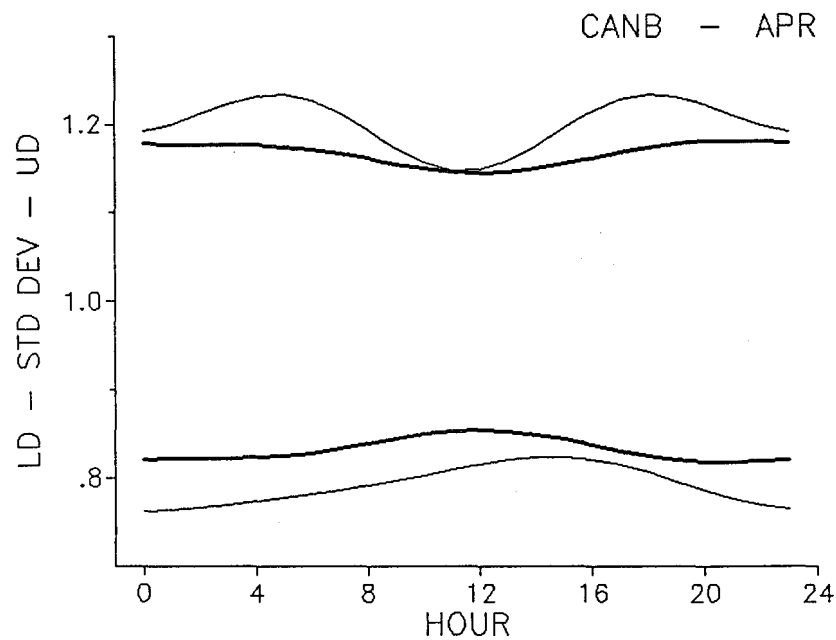
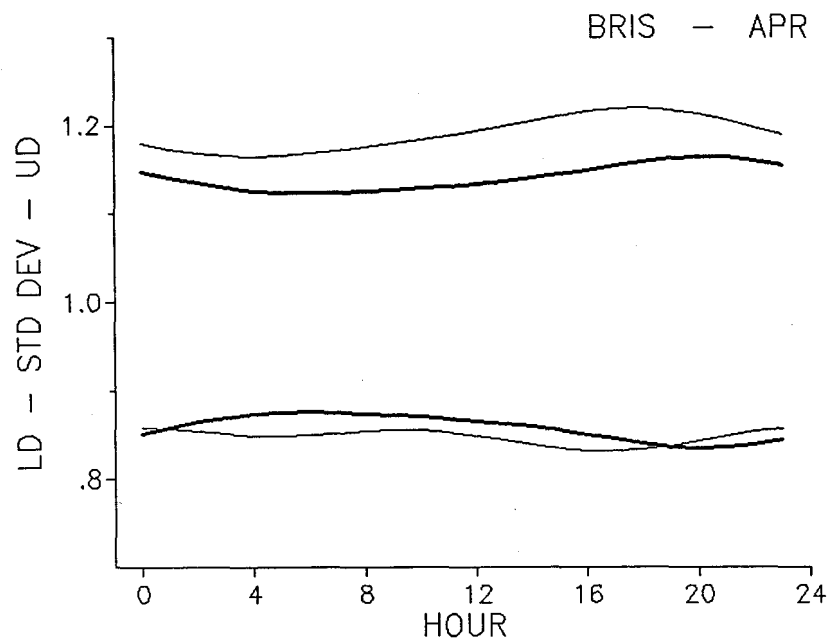
102



# ACTIVE MAGNETIC

# LOW SSN

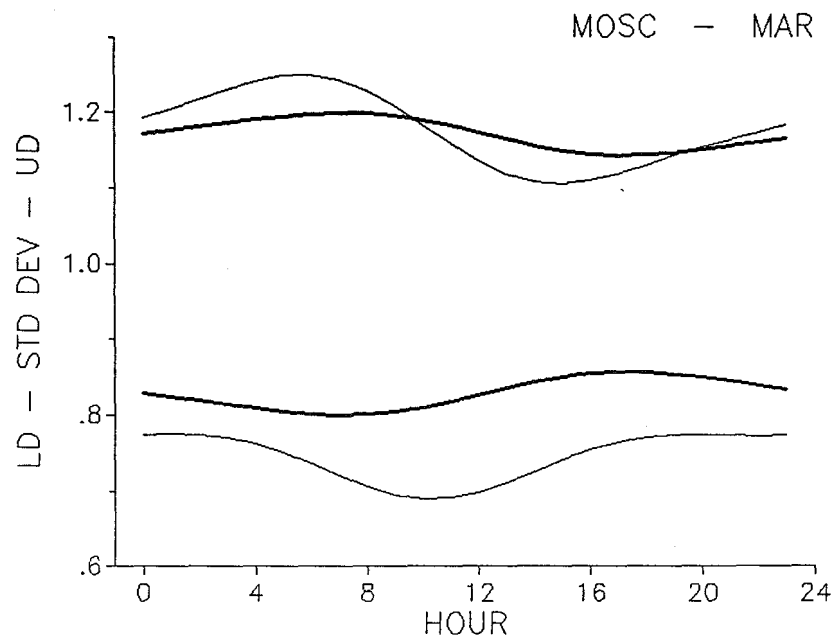
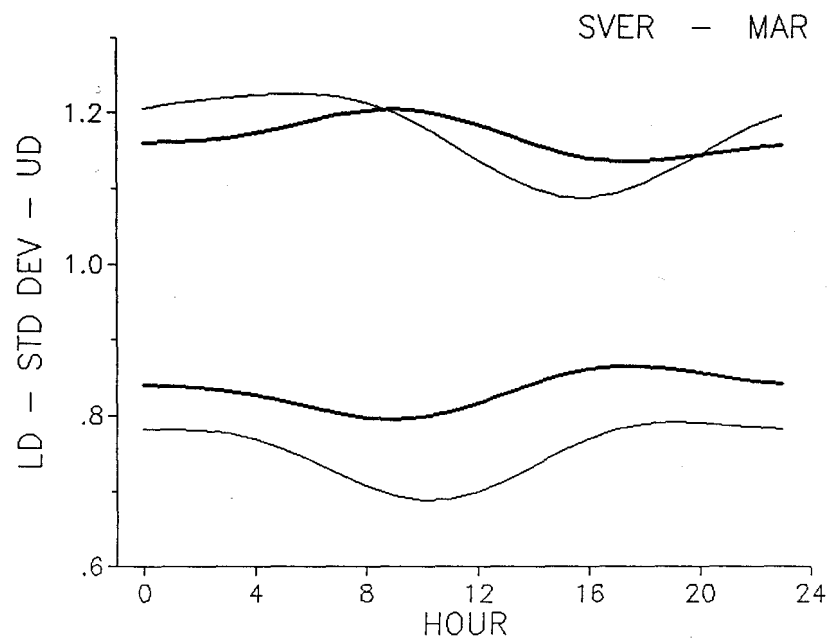
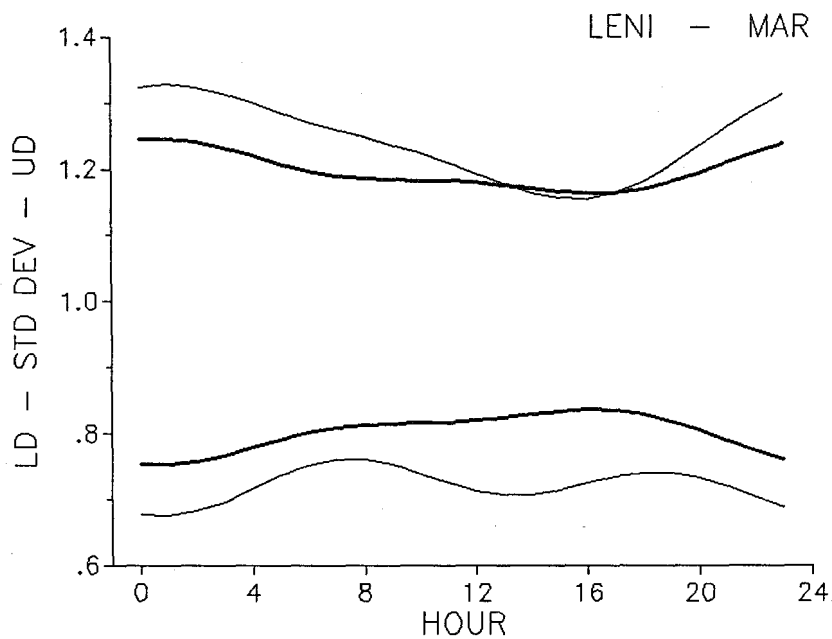
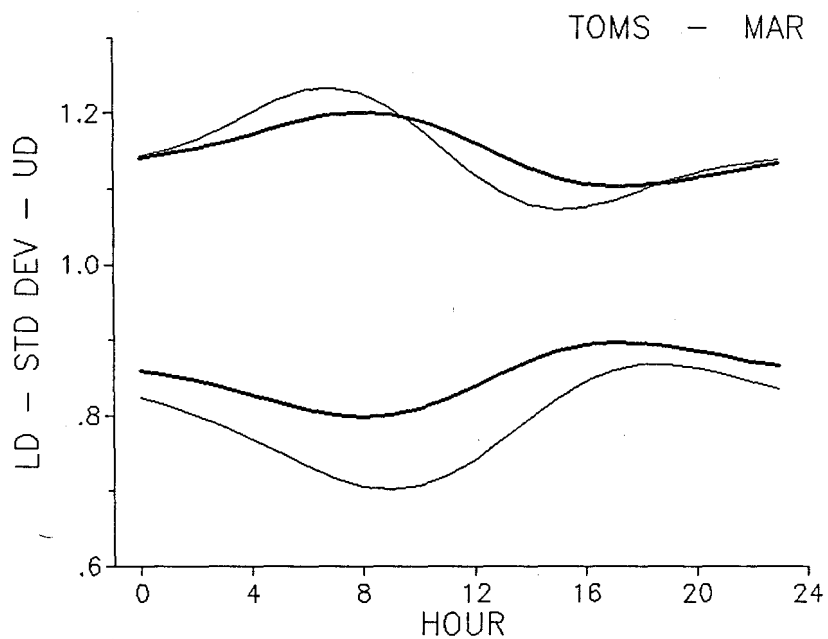
103



# ACTIVE MAGNETIC

# — — HIGH SSN

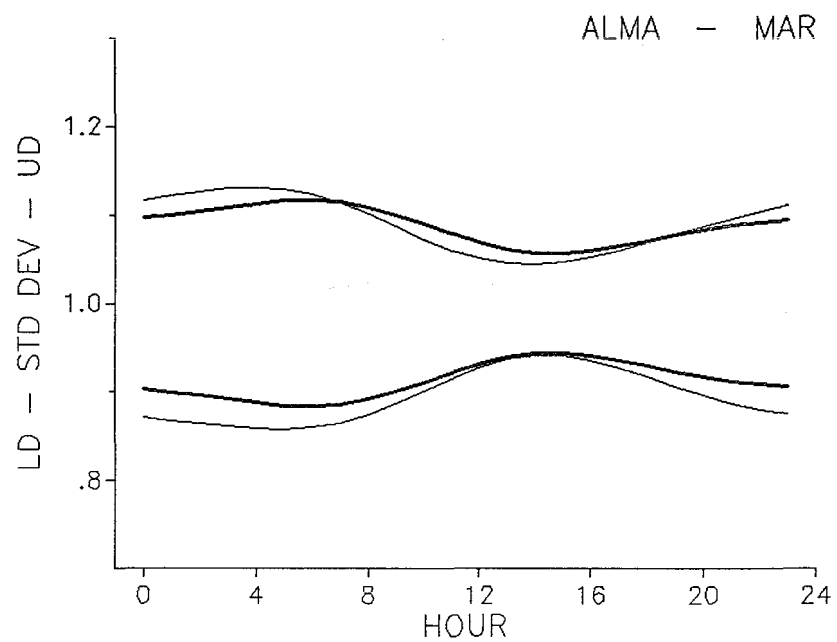
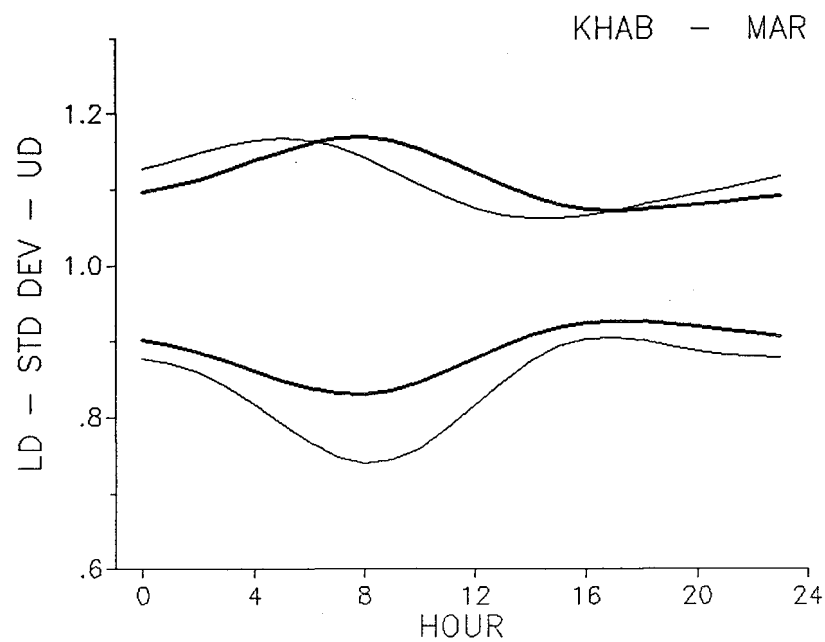
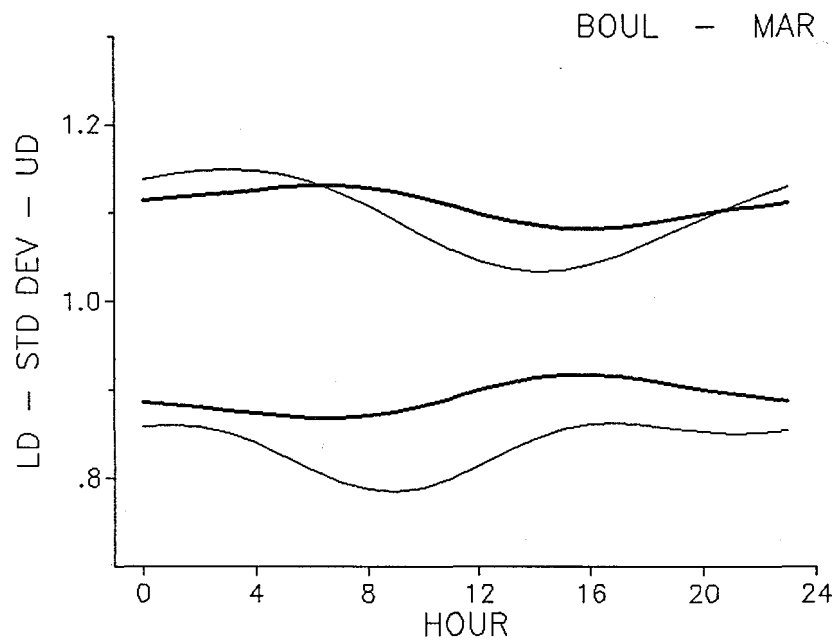
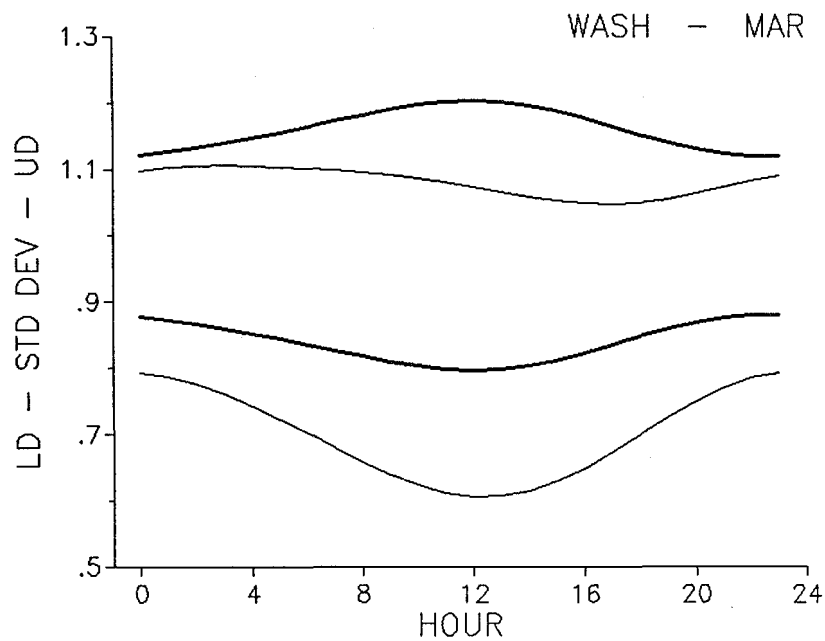
104



# ACTIVE MAGNETIC

# --- HIGH SSN

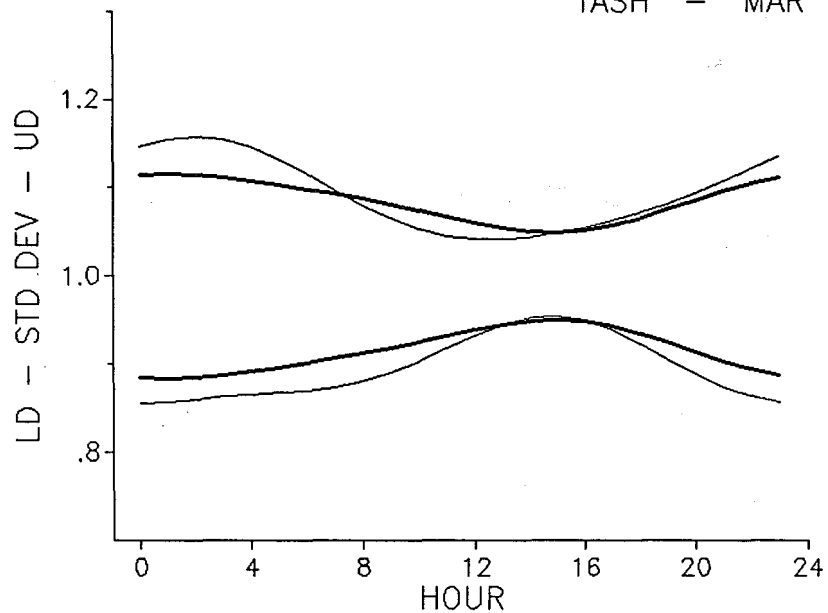
105



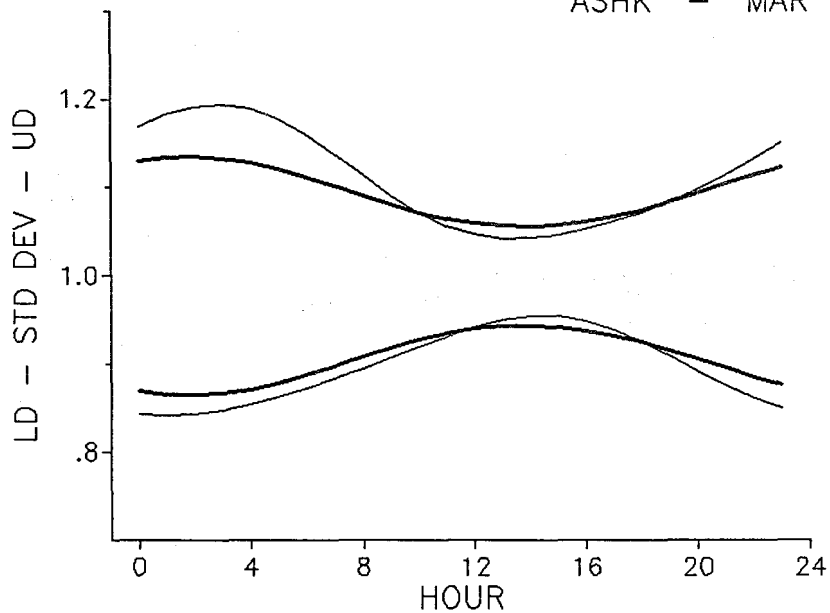
ACTIVE MAGNETIC

--- HIGH SSN

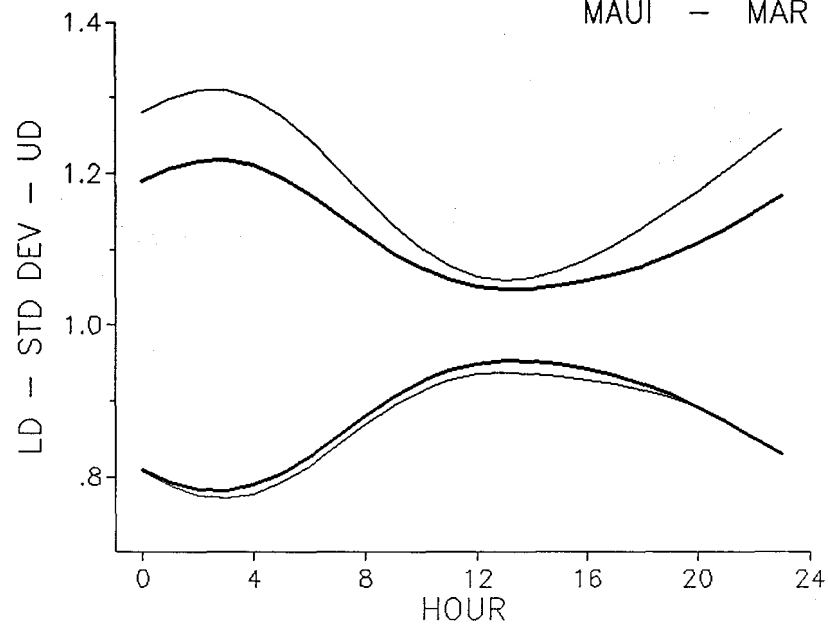
TASH - MAR



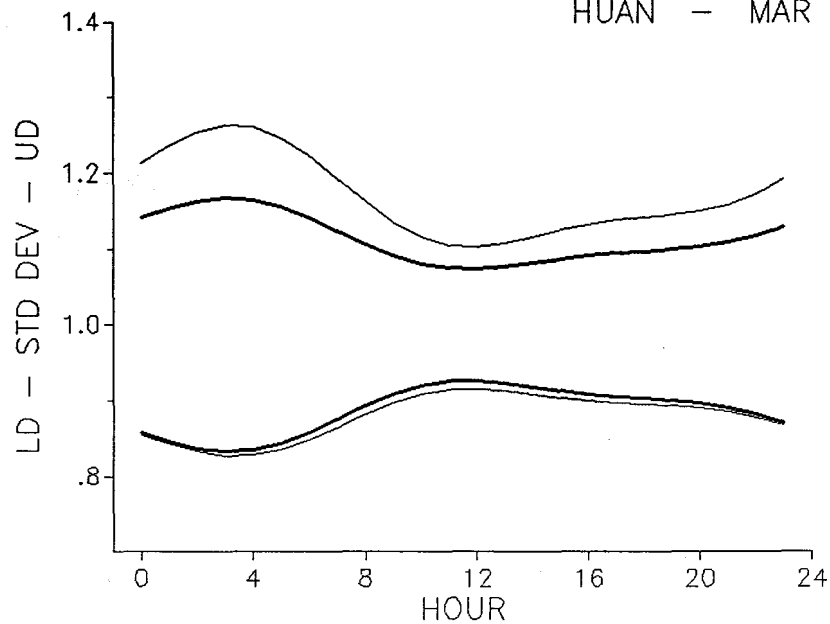
ASHK - MAR



MAUI - MAR



HUAN - MAR

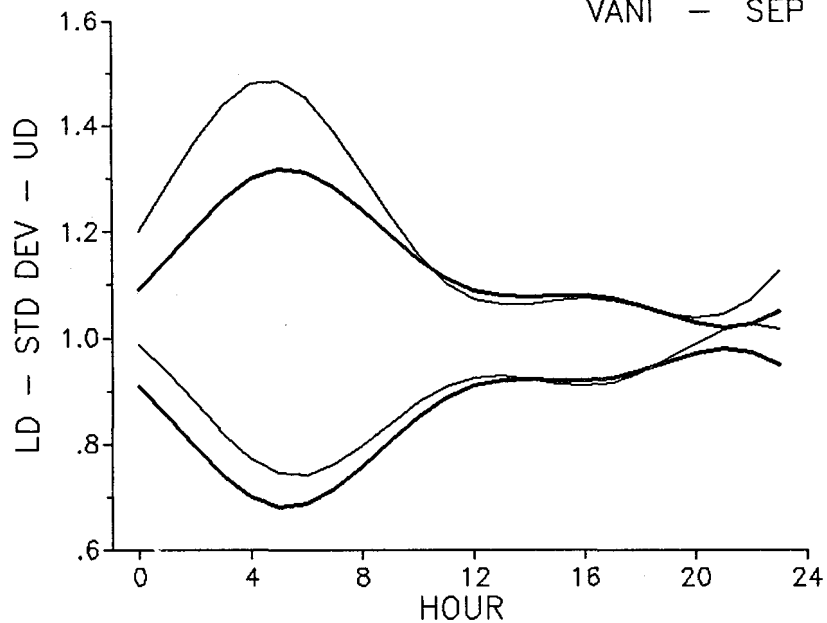




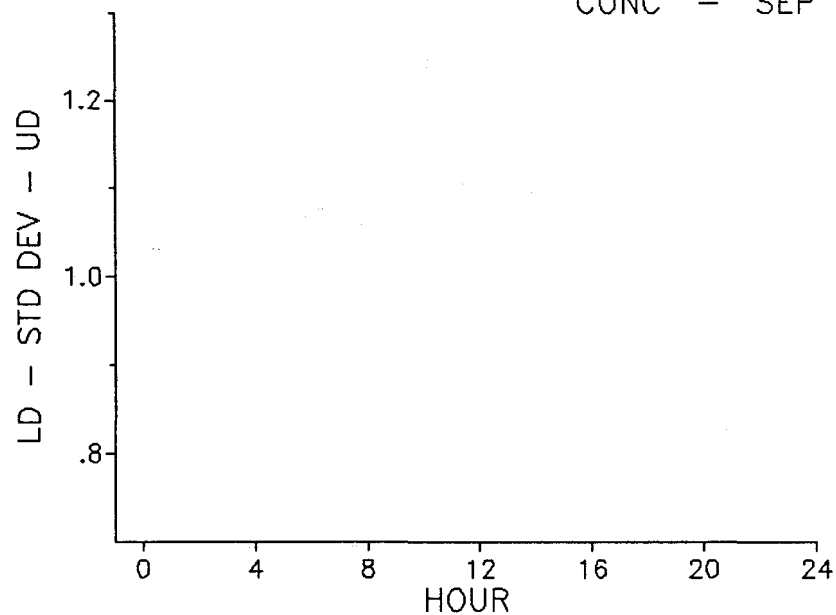
ACTIVE MAGNETIC

--- HIGH SSN

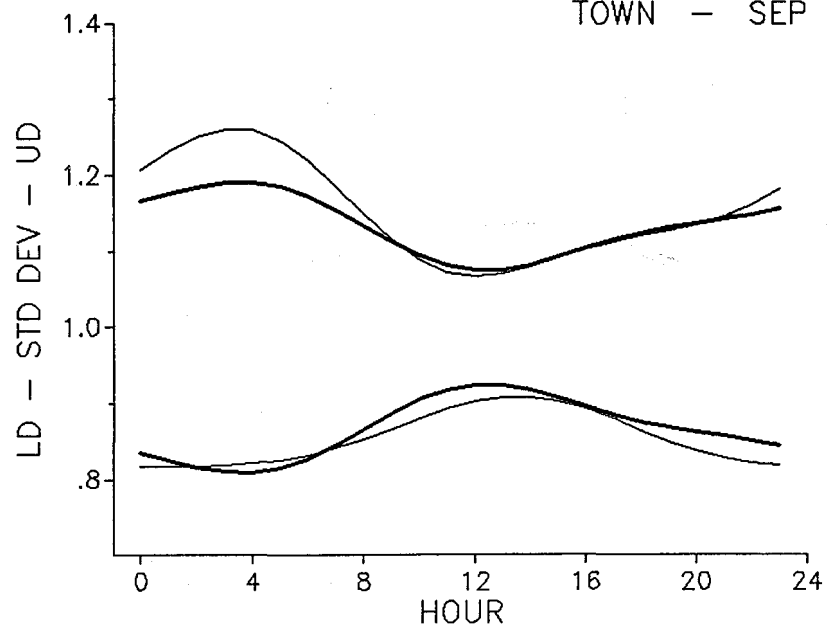
VANI - SEP



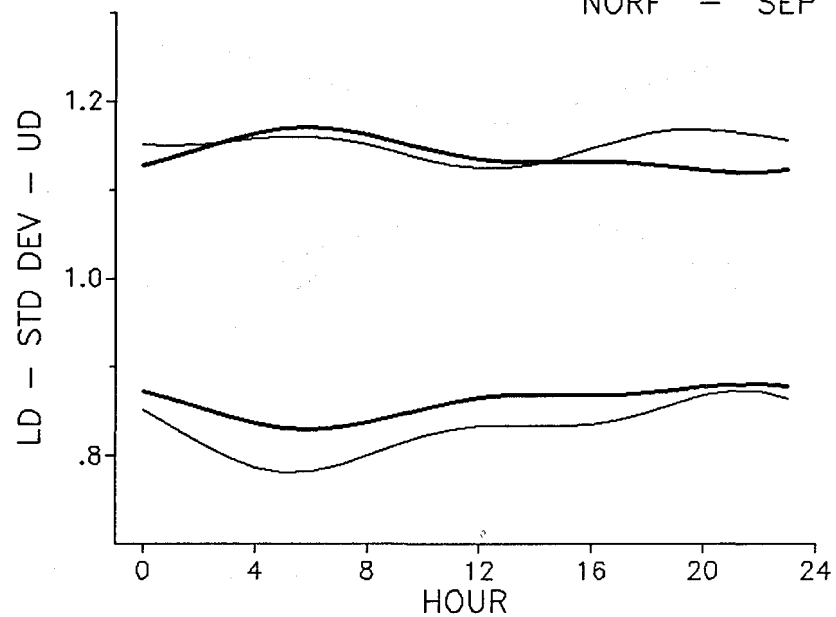
CONC - SEP



TOWN - SEP



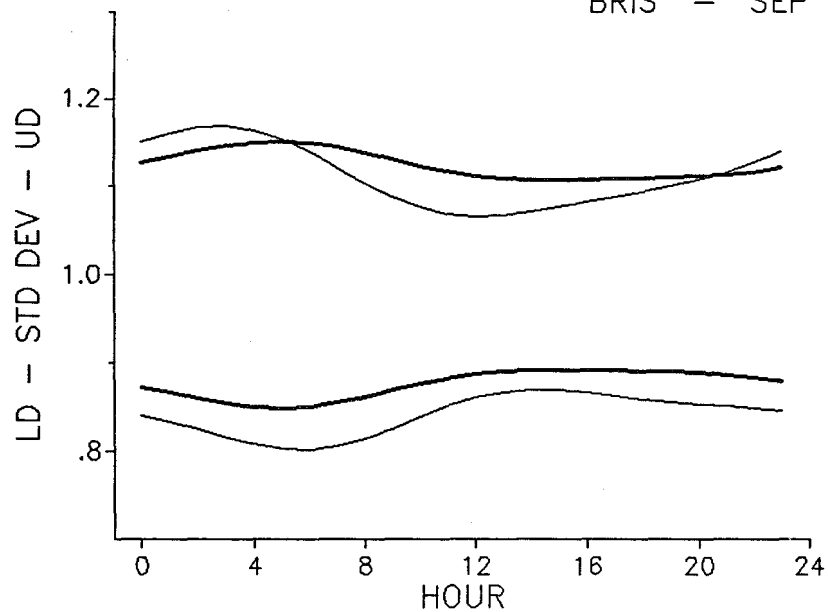
NORF - SEP



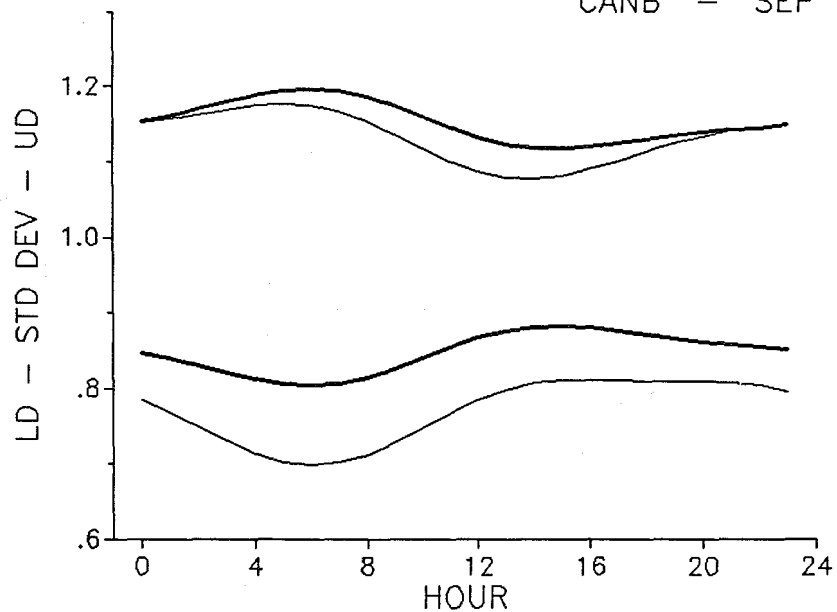
# ACTIVE MAGNETIC

# --- HIGH SSN

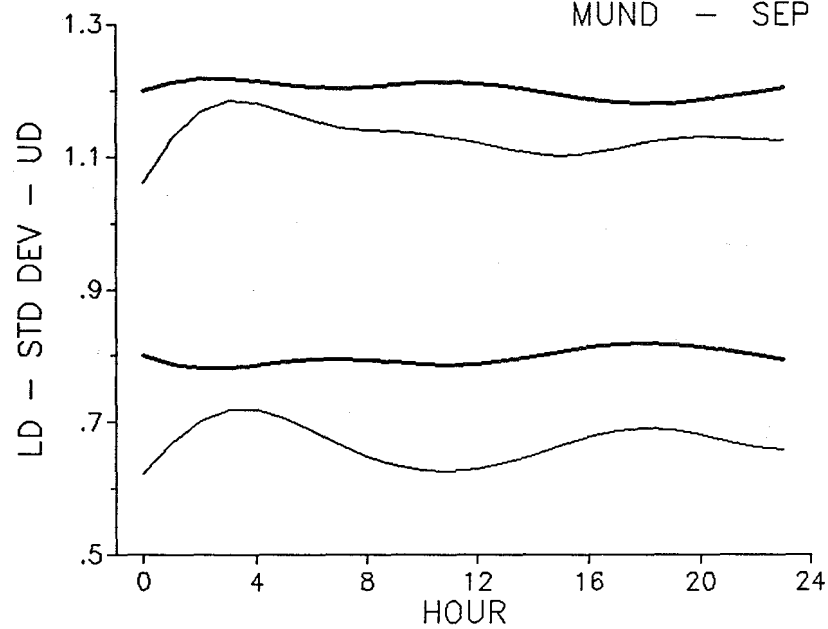
BRIS - SEP



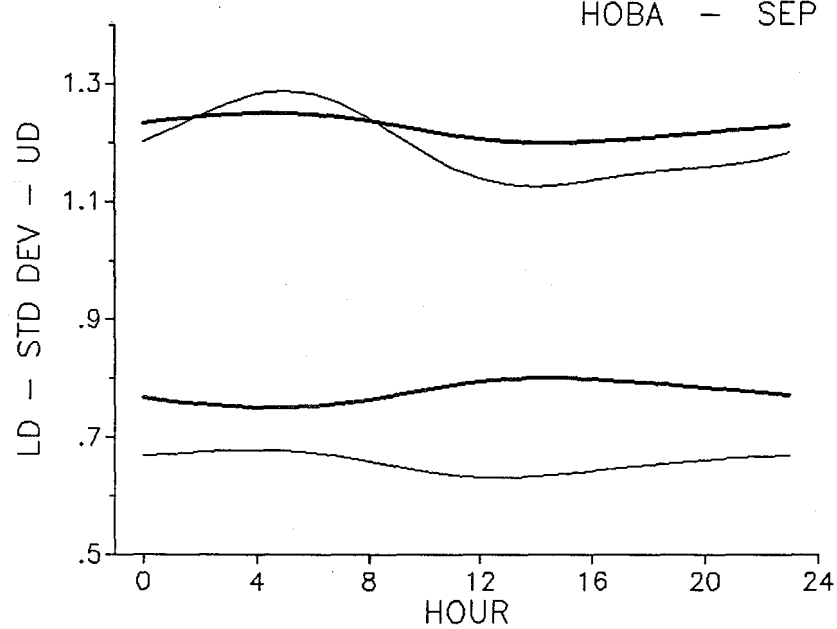
CANB - SEP



MUND - SEP



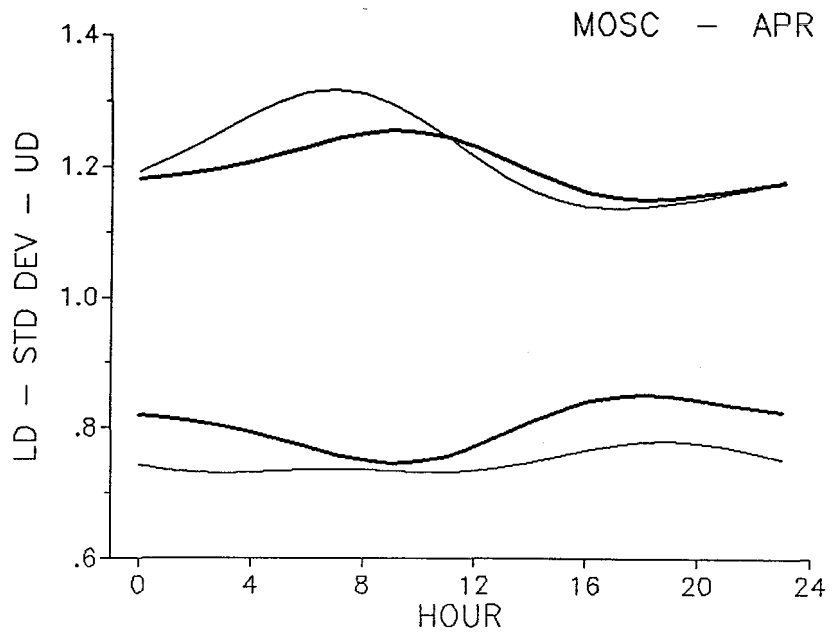
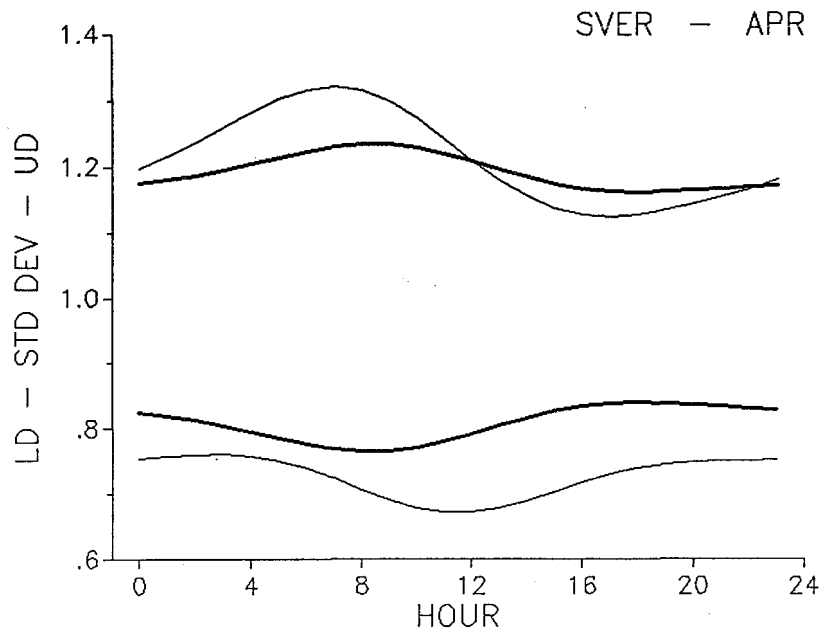
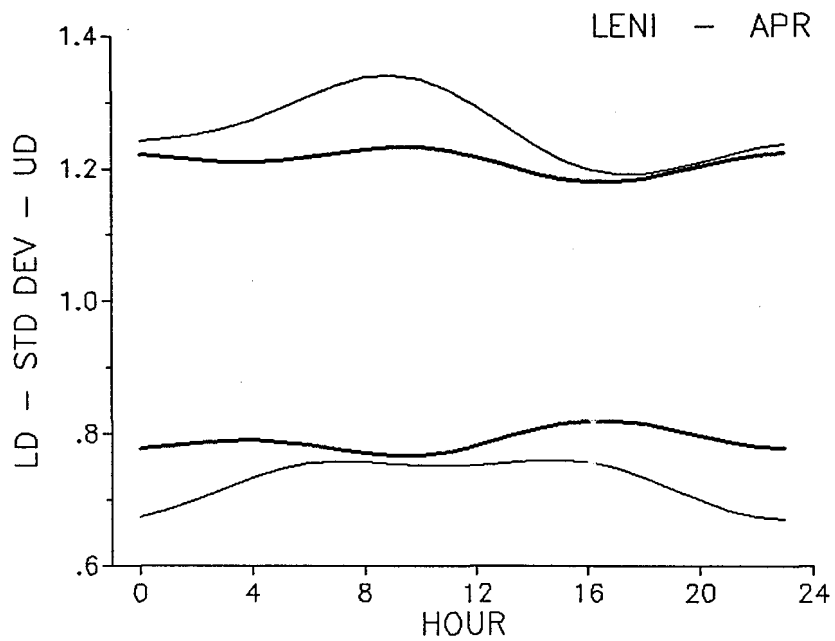
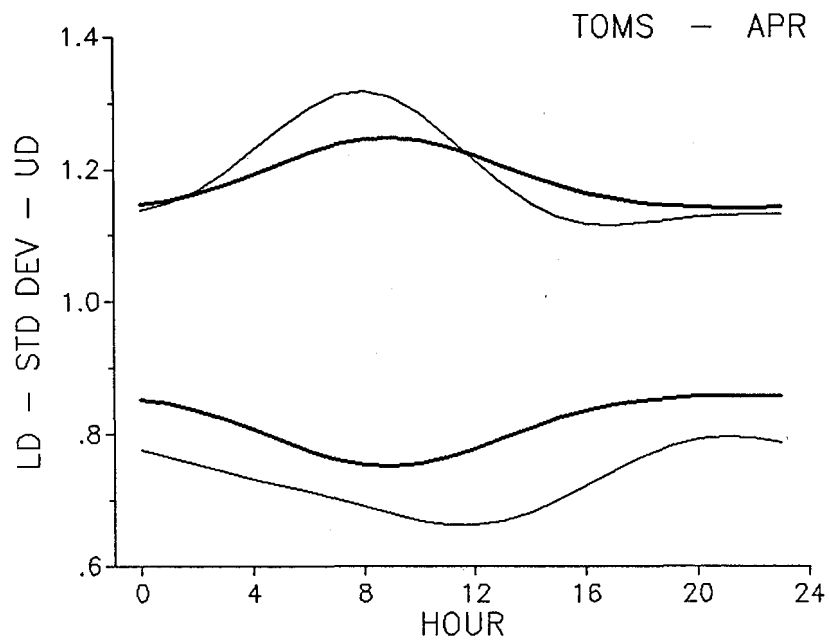
HOBA - SEP



# ACTIVE MAGNETIC

# — — HIGH SSN

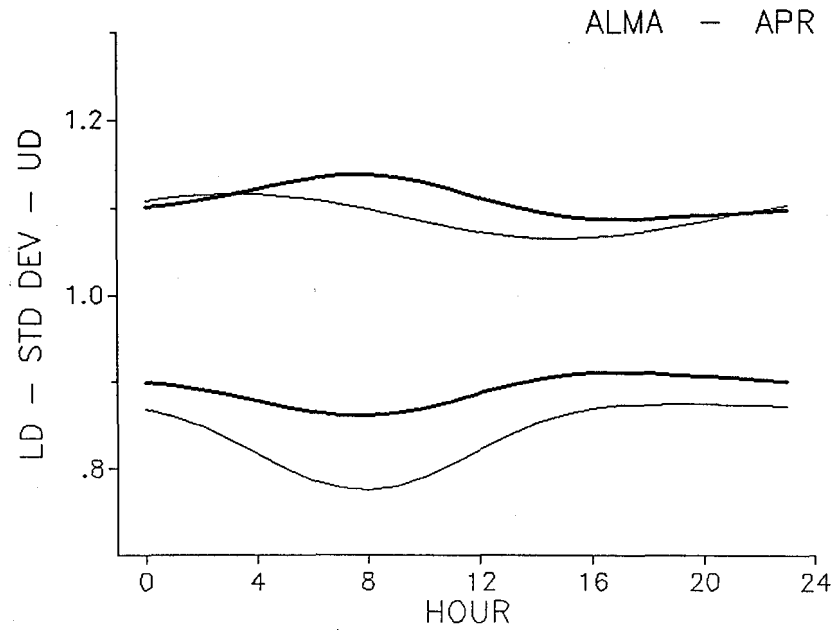
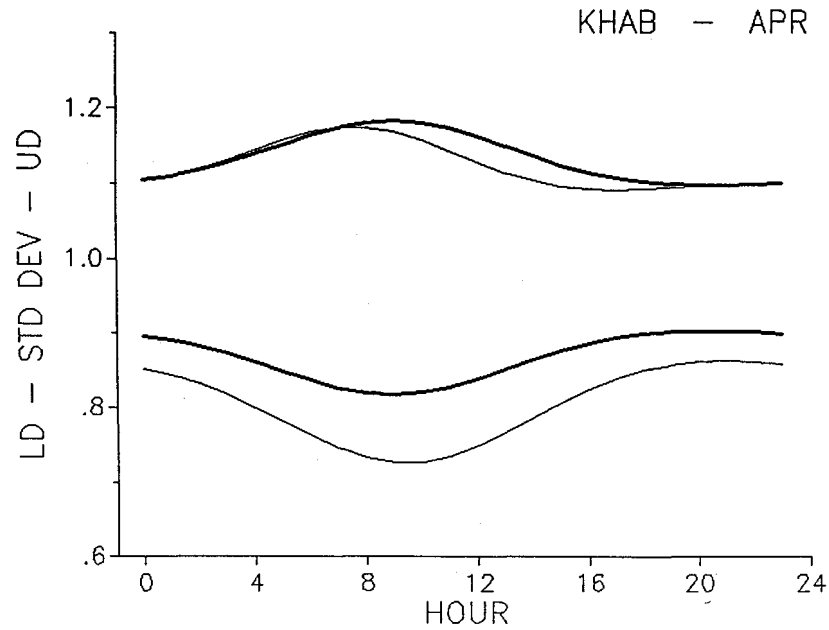
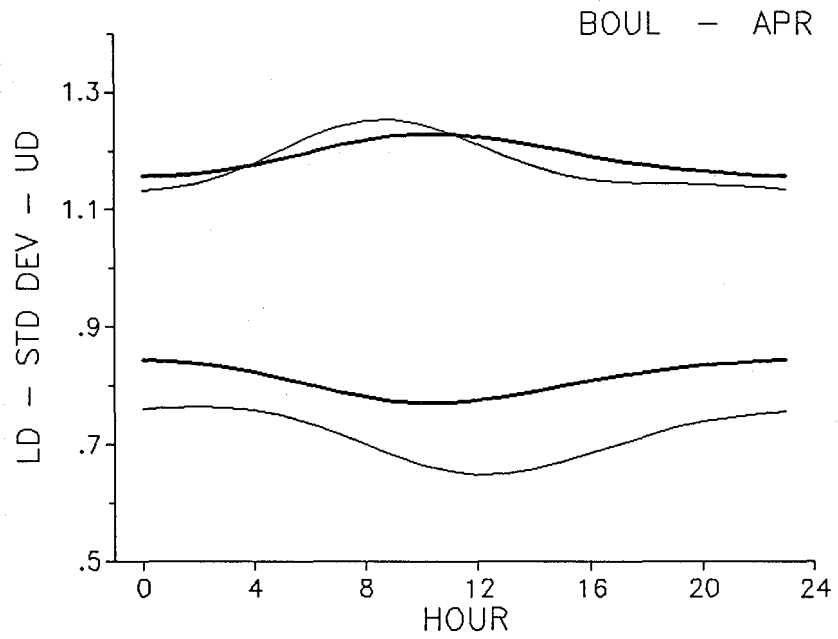
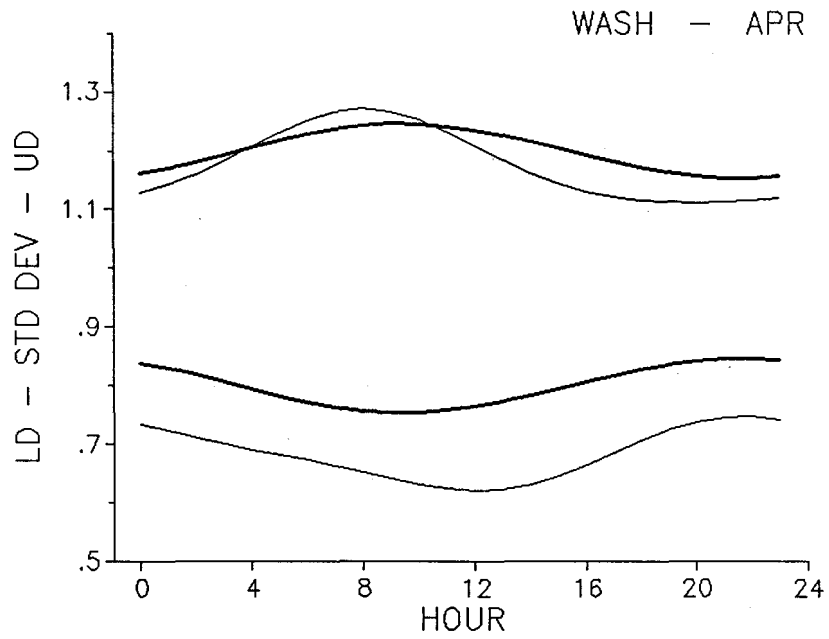
109



# ACTIVE MAGNETIC

# — — HIGH SSN

110

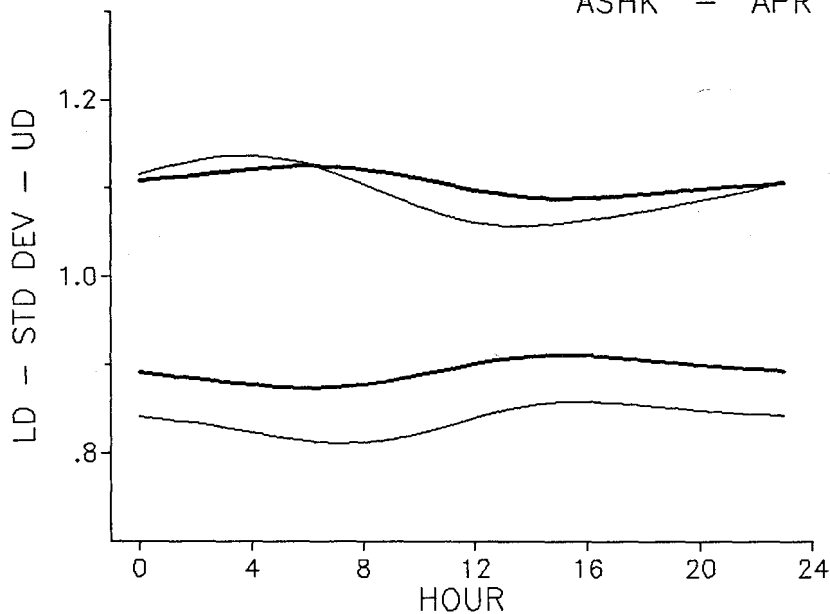
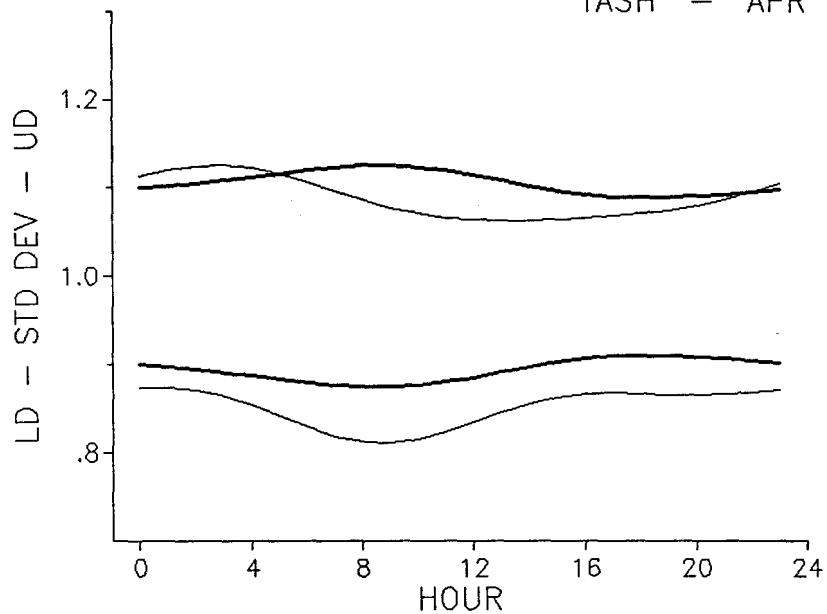


ACTIVE MAGNETIC

--- HIGH SSN

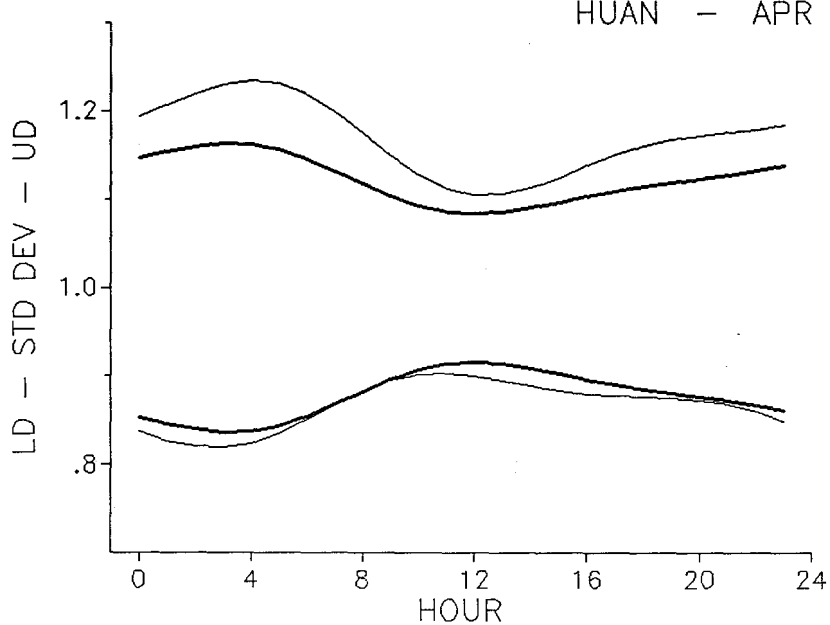
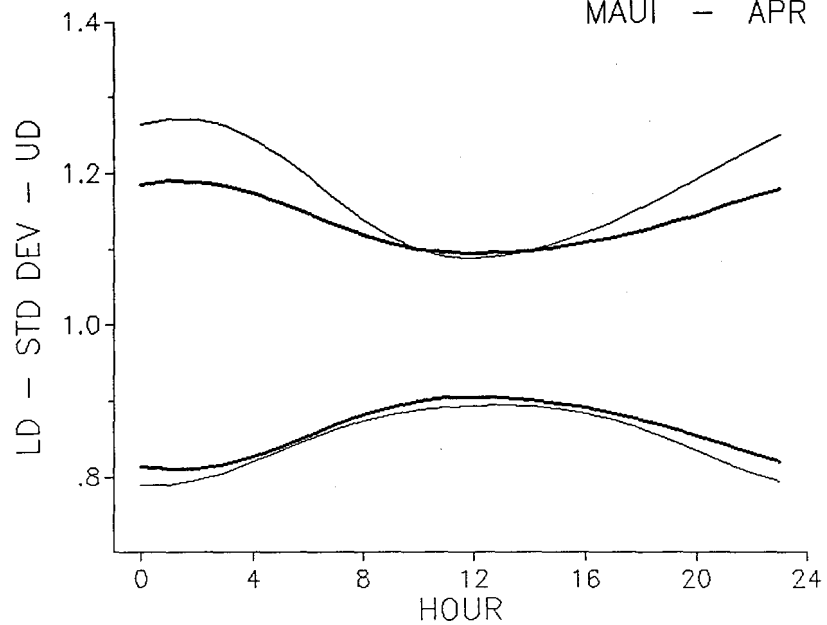
TASH - APR

ASHK - APR



MAUI - APR

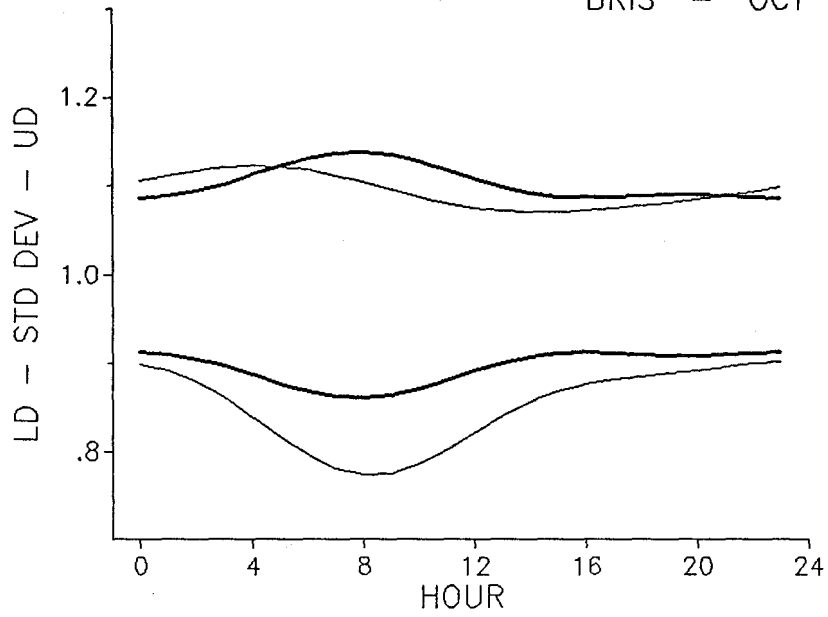
HUAN - APR



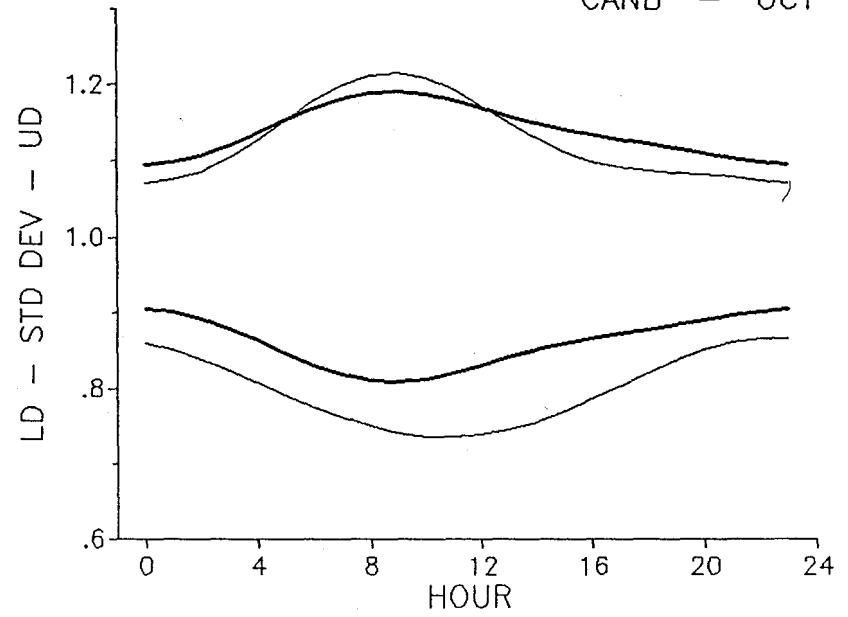
ACTIVE MAGNETIC

--- HIGH SSN

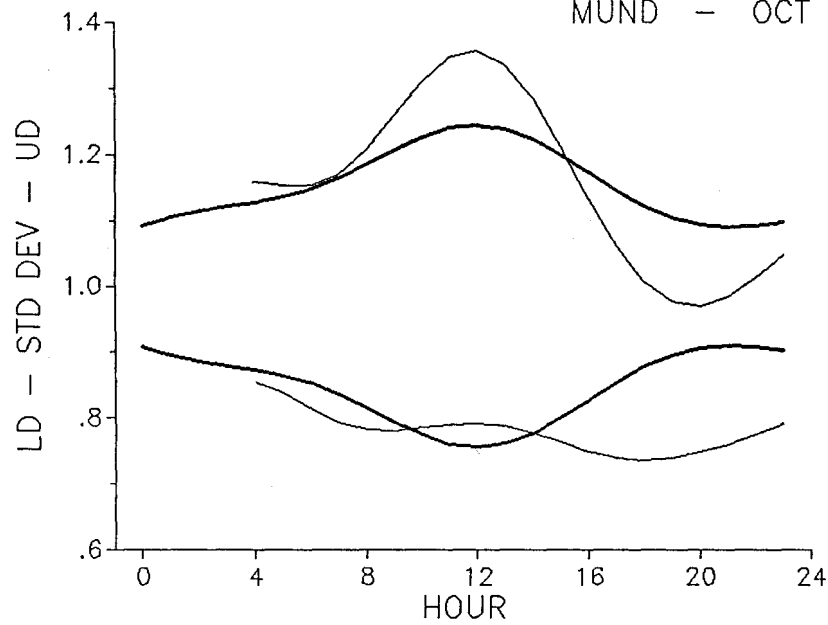
BRIS - OCT



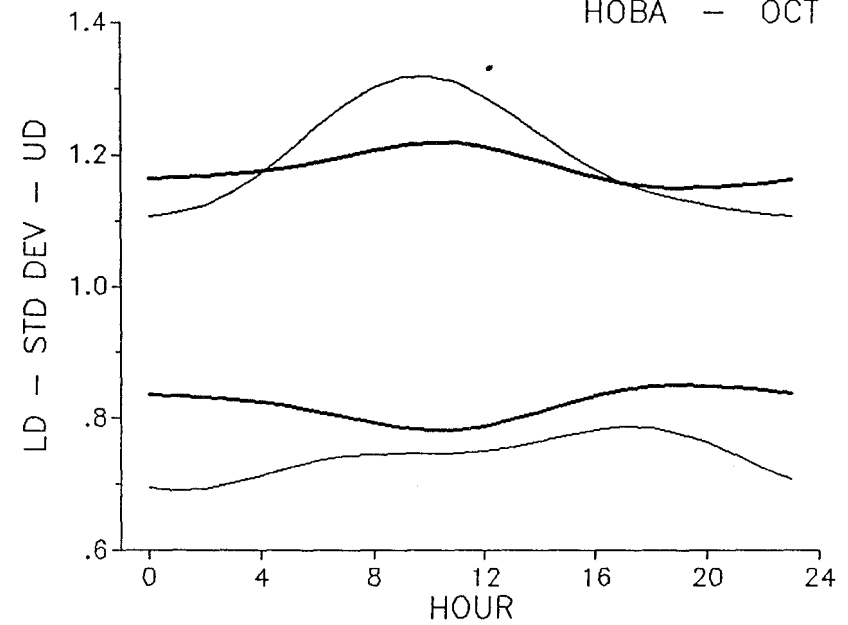
CANB - OCT



MUND - OCT



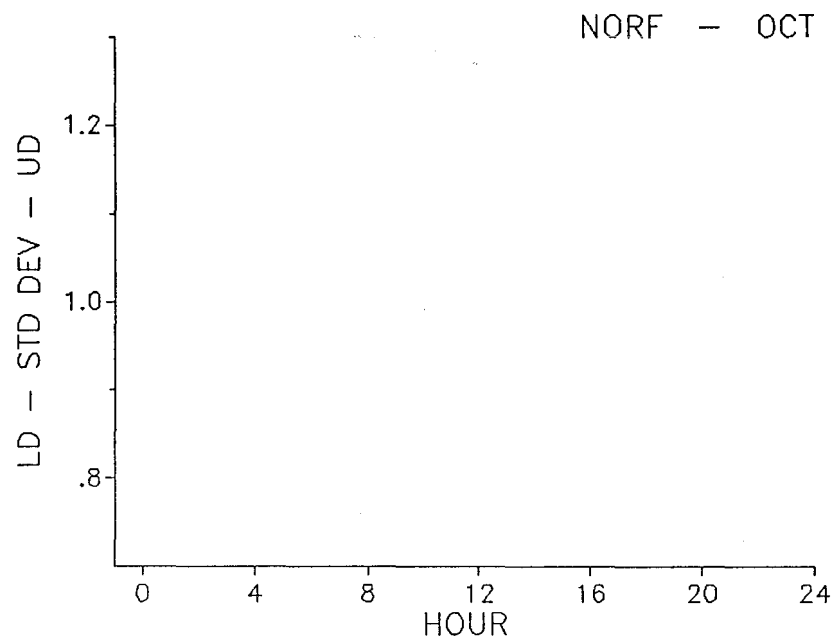
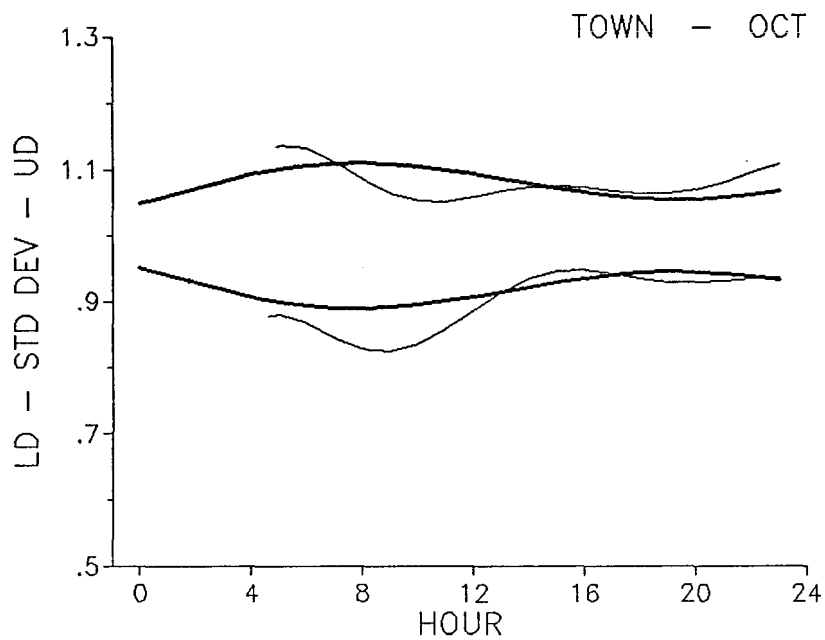
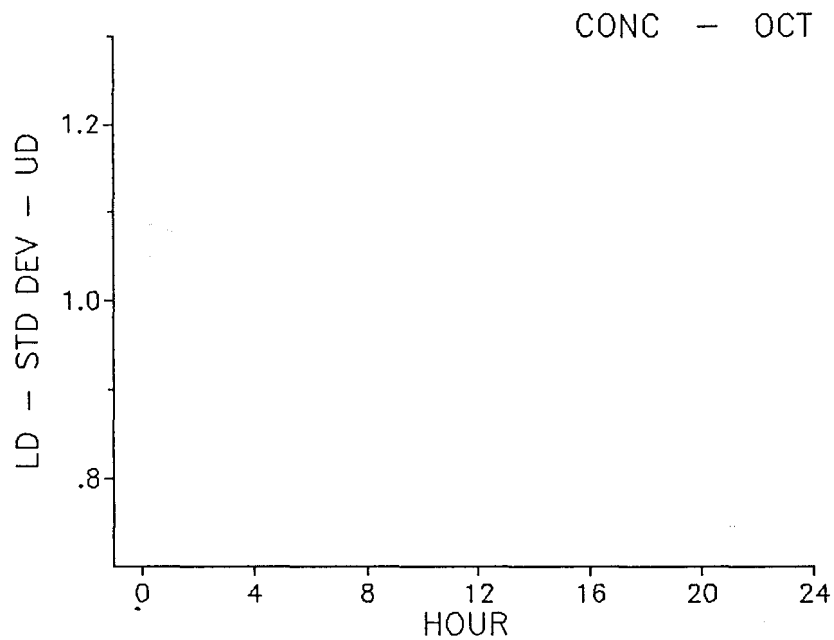
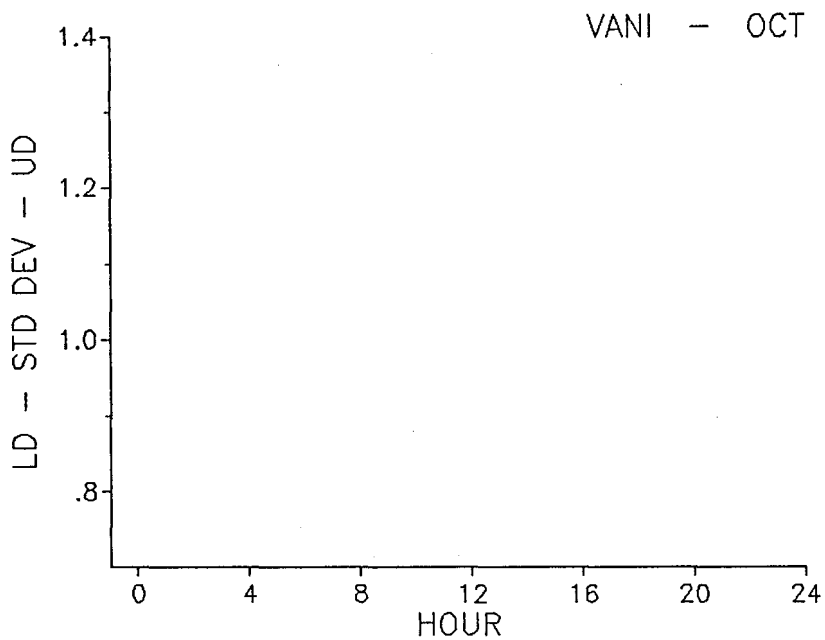
HOBA - OCT



# ACTIVE MAGNETIC

# — — HIGH SSN

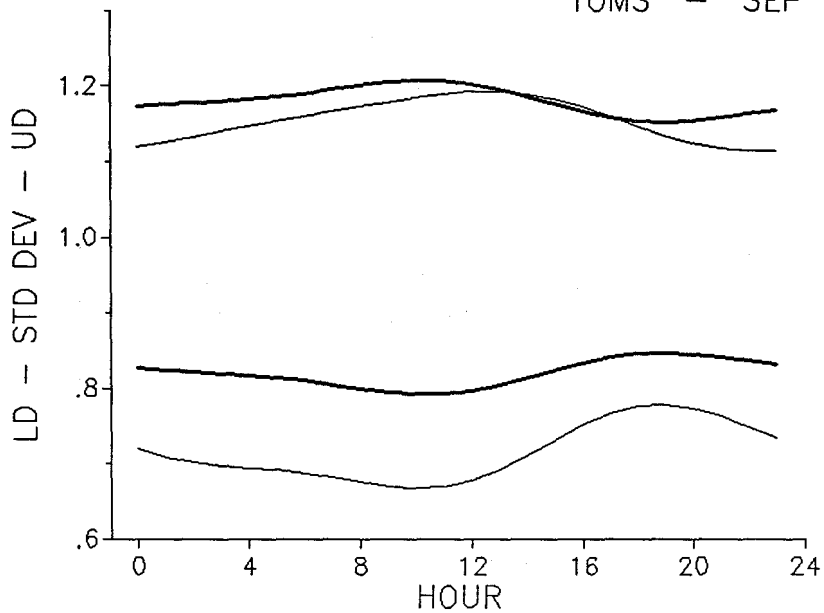
113



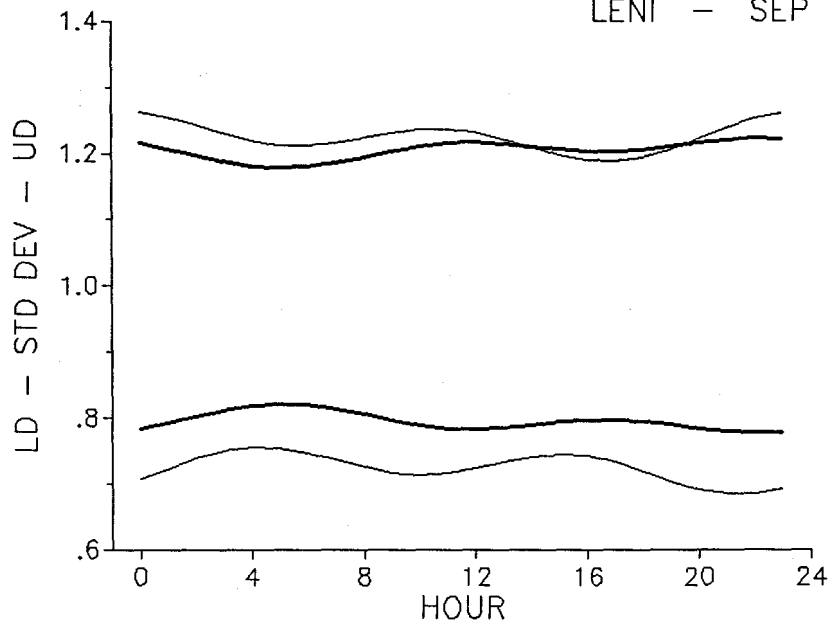
# ACTIVE MAGNETIC

# --- HIGH SSN

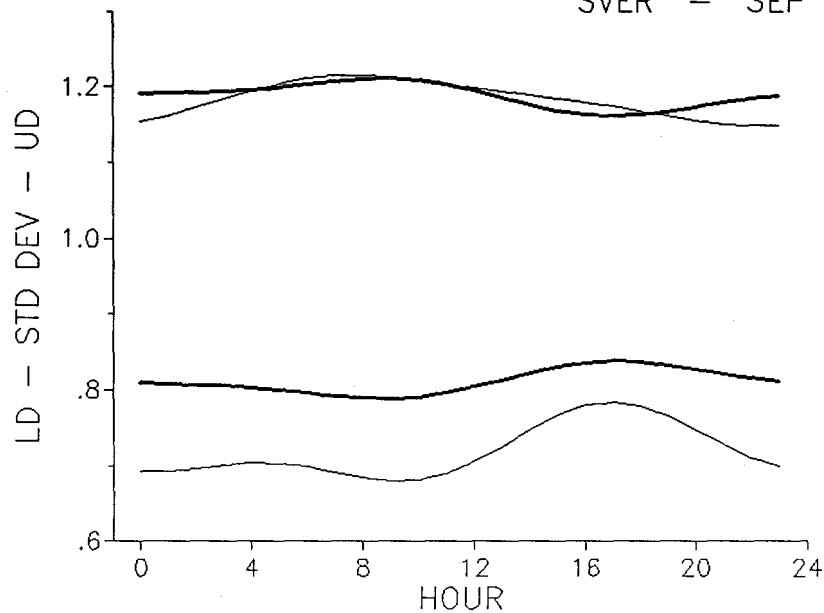
TOMS - SEP



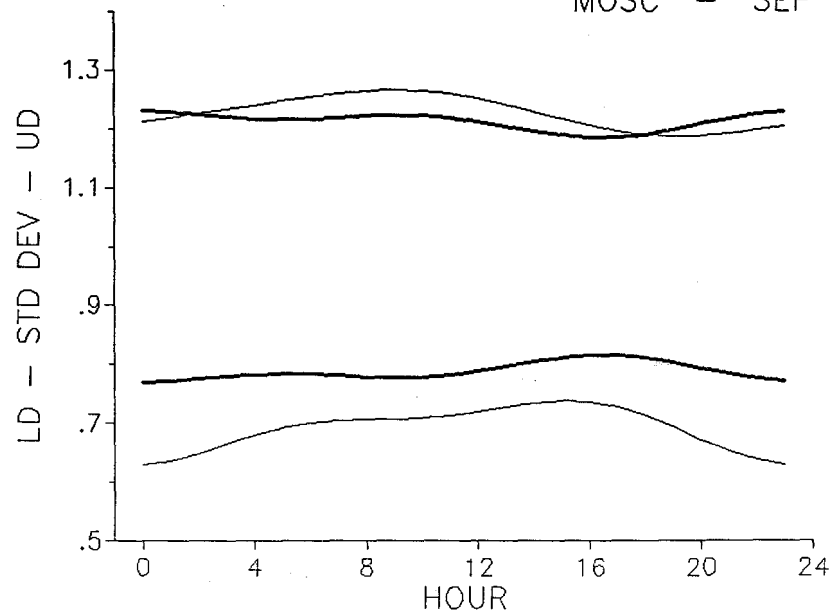
LENI - SEP



SVER - SEP



MOSC - SEP

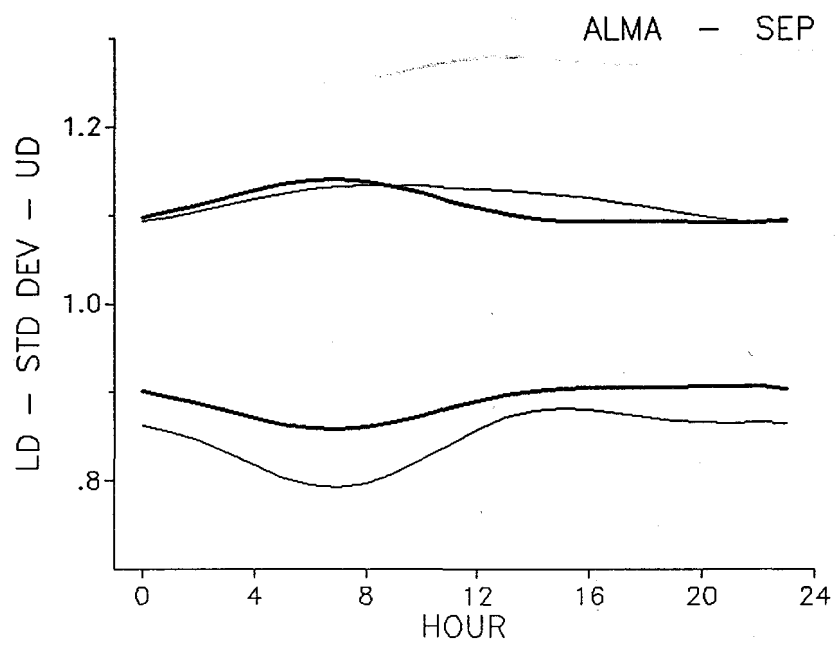
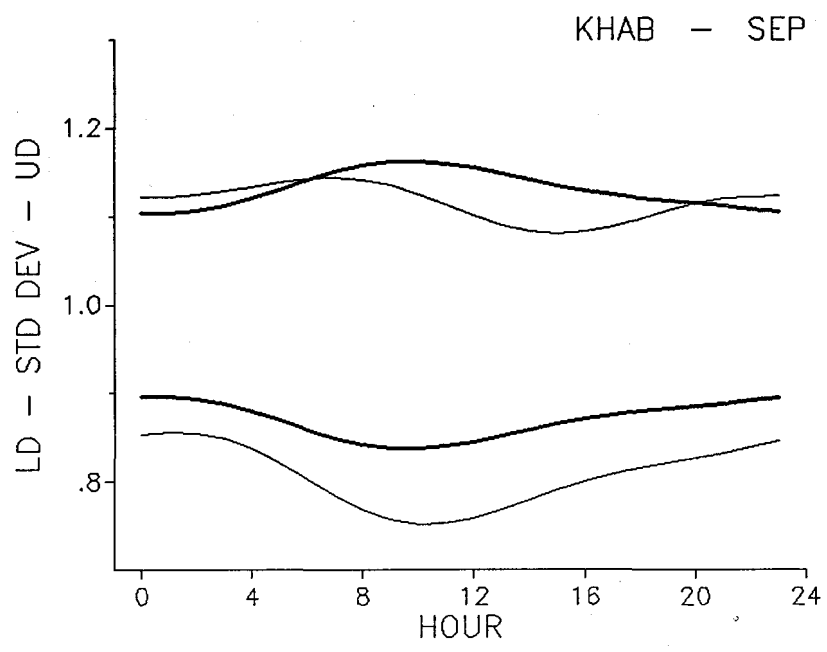
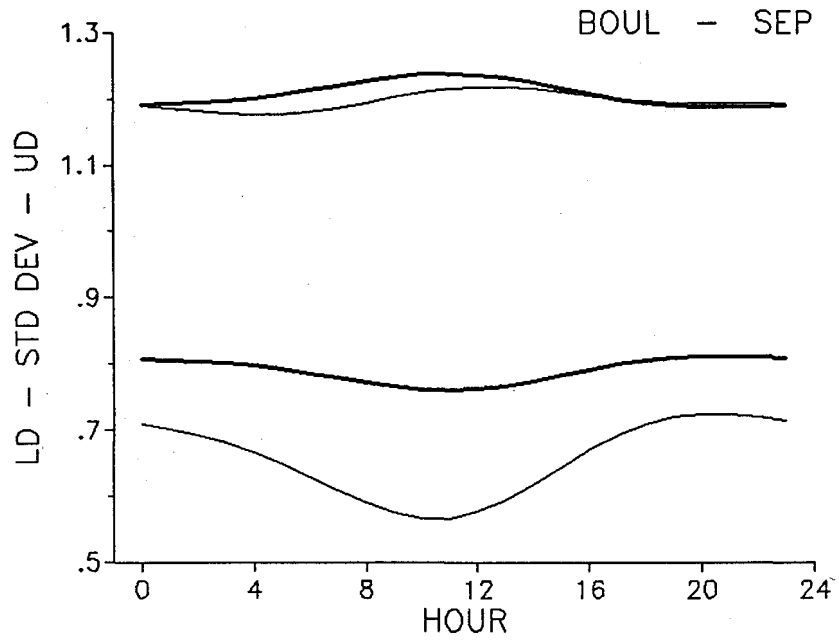
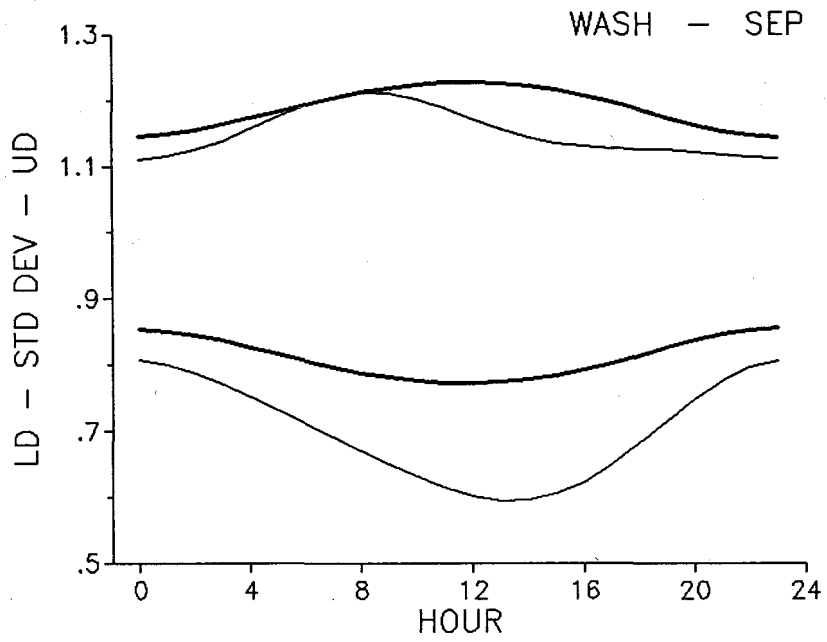




# ACTIVE MAGNETIC

# --- HIGH SSN

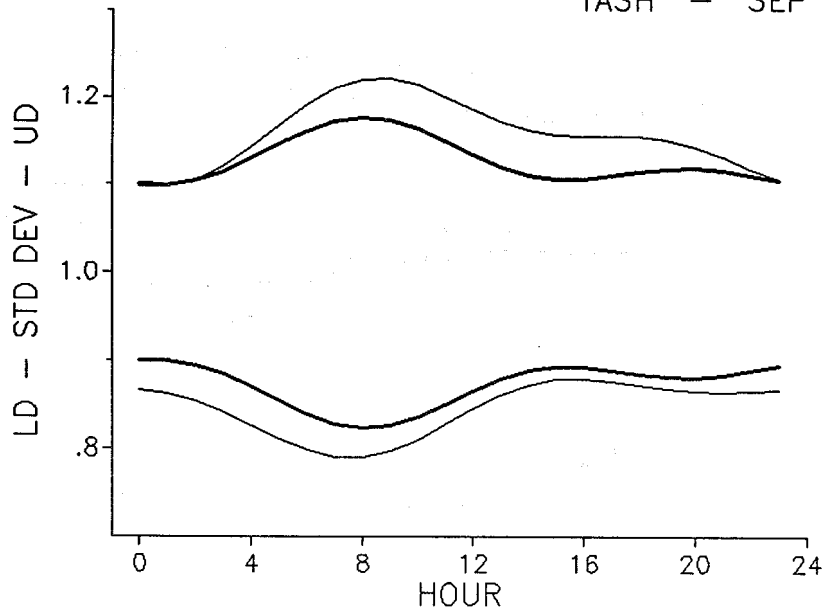
115



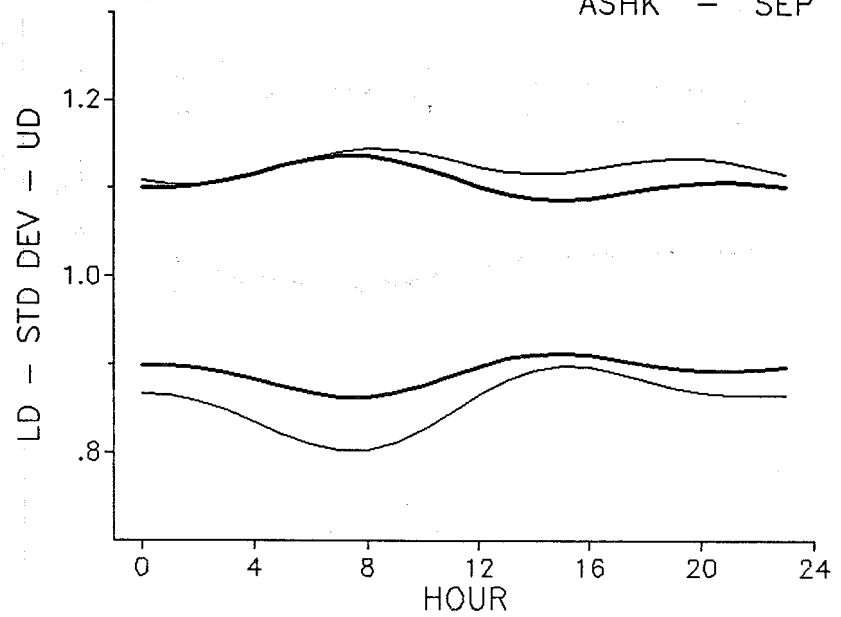
# ACTIVE MAGNETIC

# --- HIGH SSN

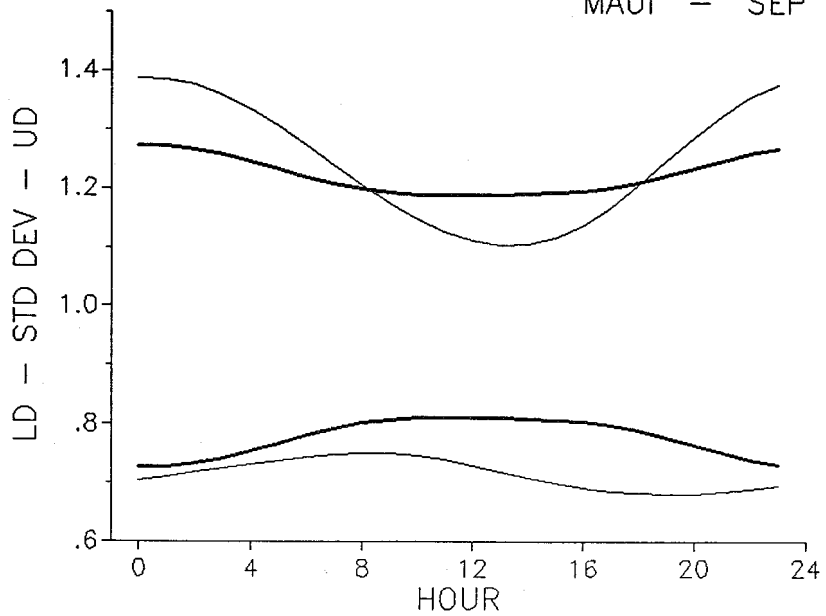
TASH - SEP



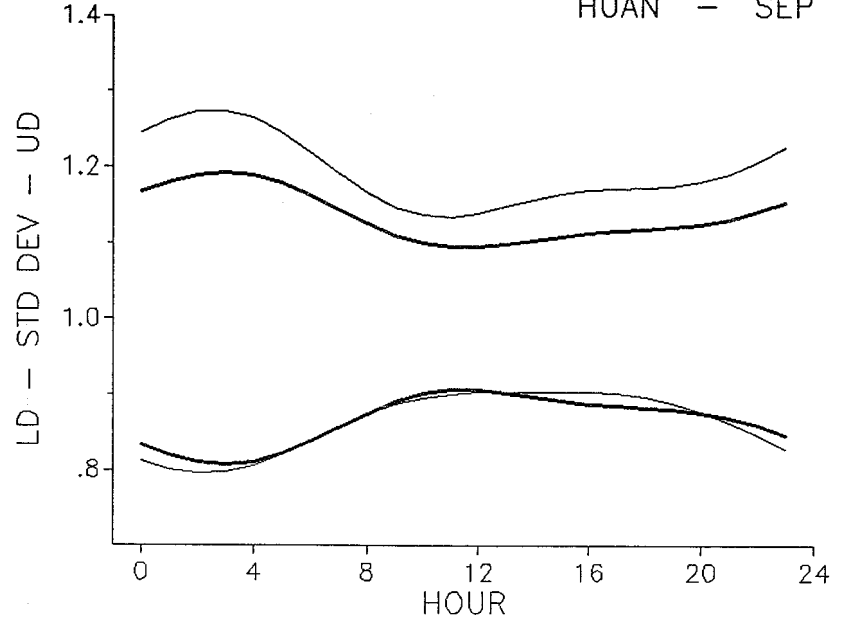
ASHK - SEP



MAUI - SEP

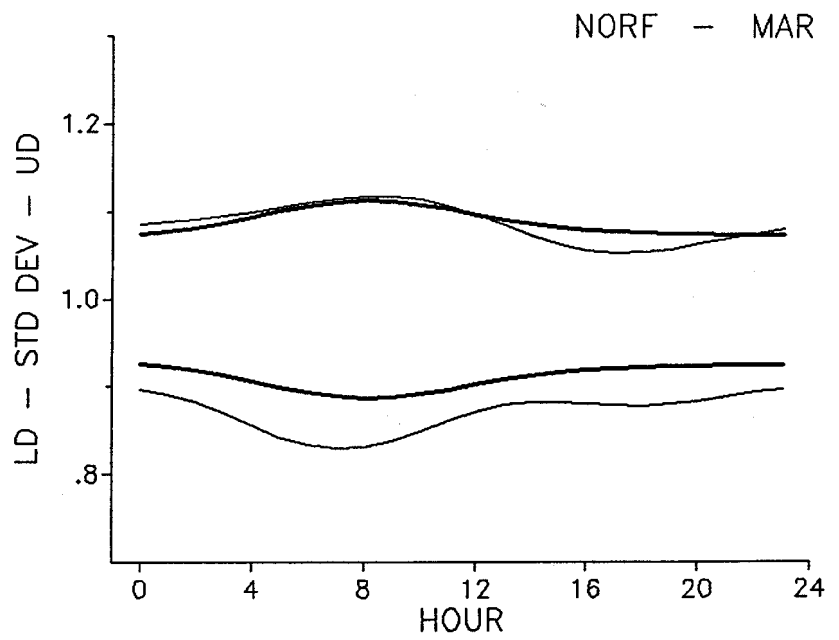
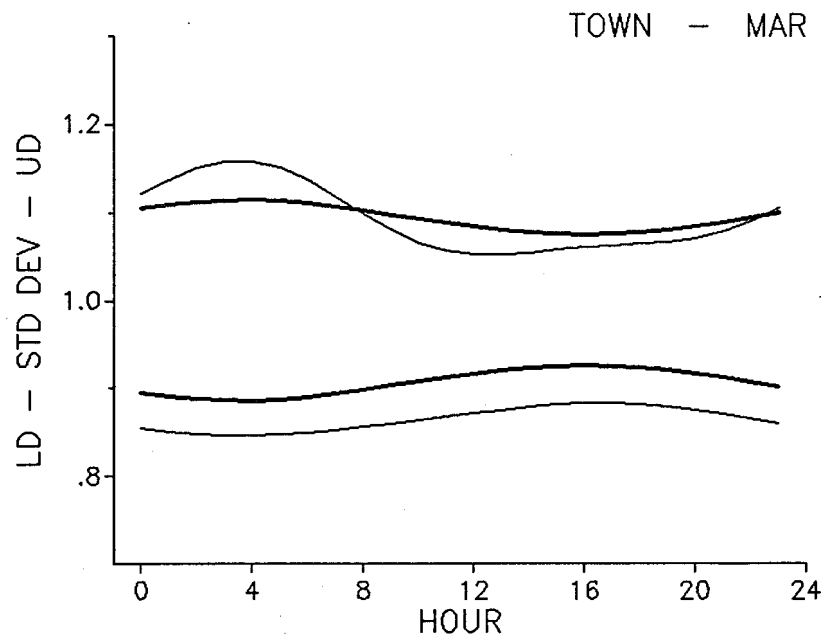
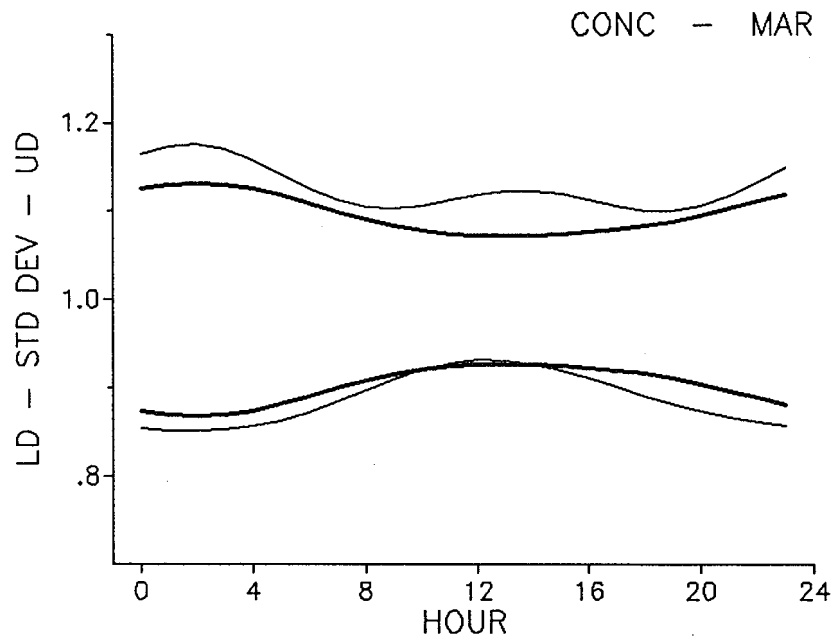
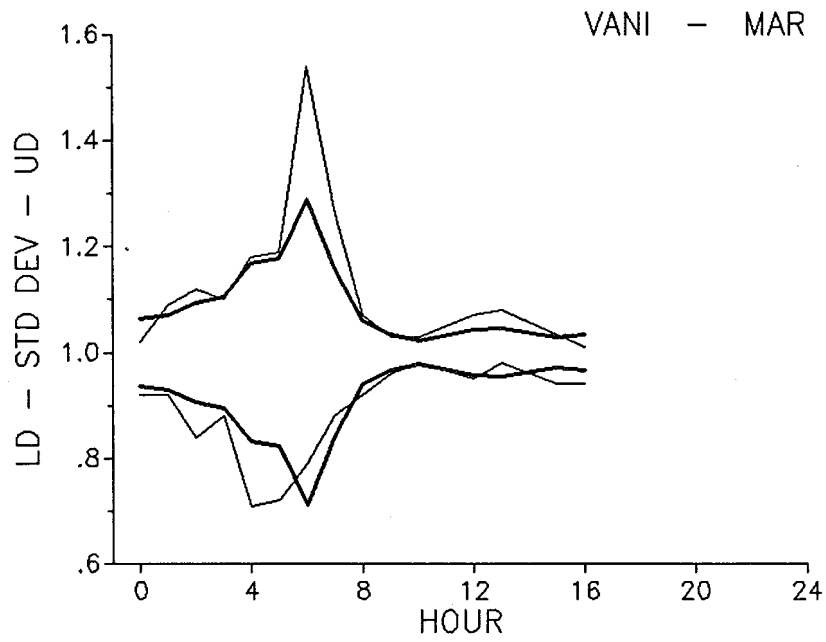


HUAN - SEP



# ACTIVE MAGNETIC

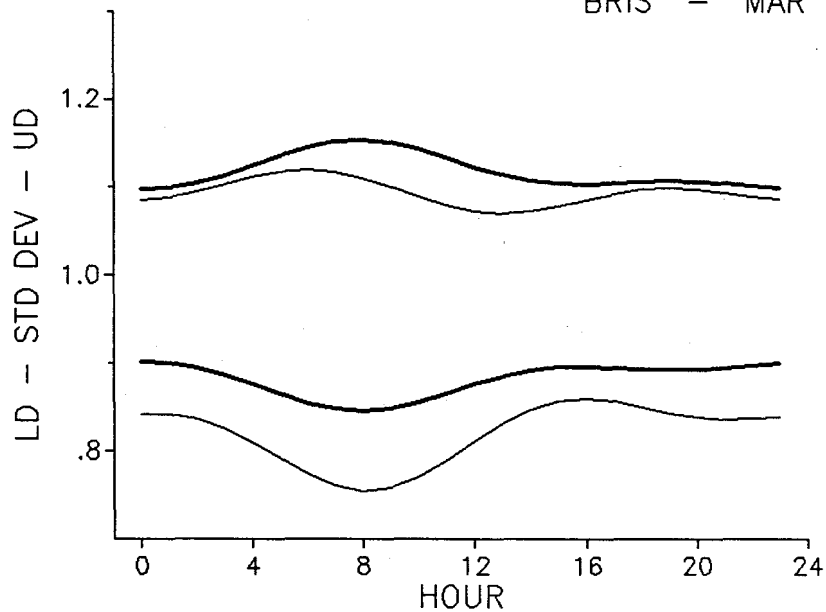
# --- HIGH SSN



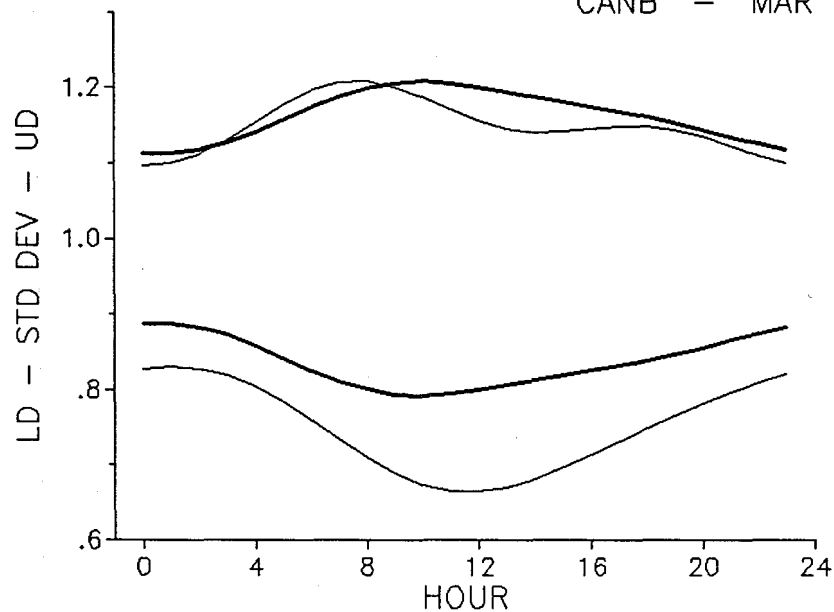
# ACTIVE MAGNETIC

# --- HIGH SSN

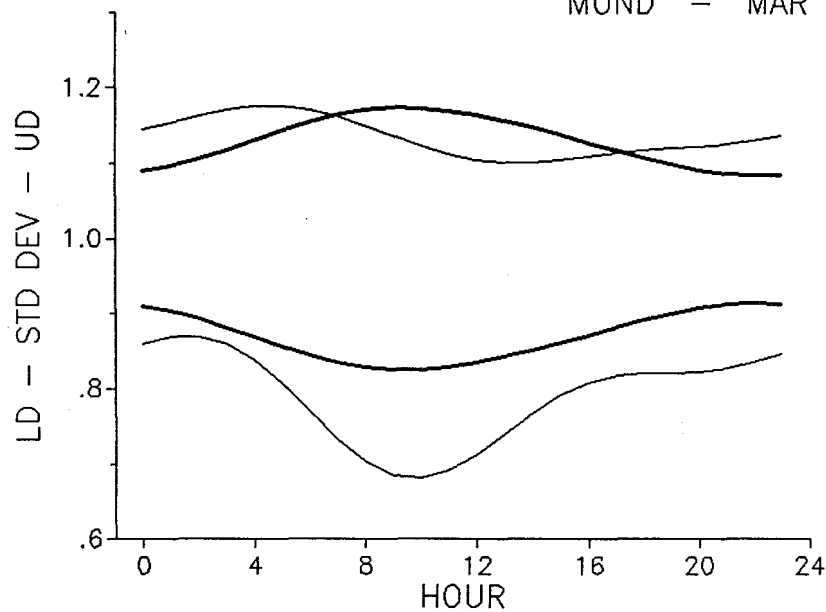
BRIS - MAR



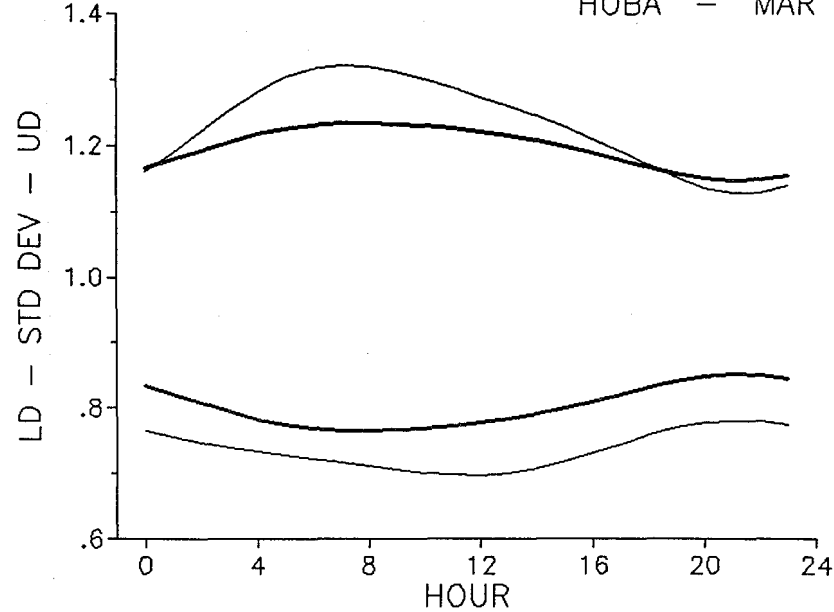
CANB - MAR



MUND - MAR



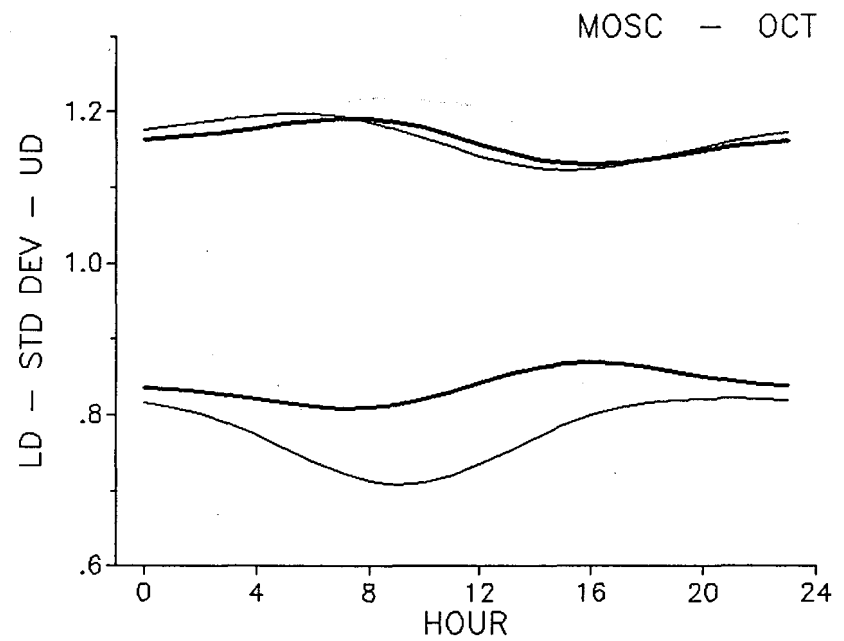
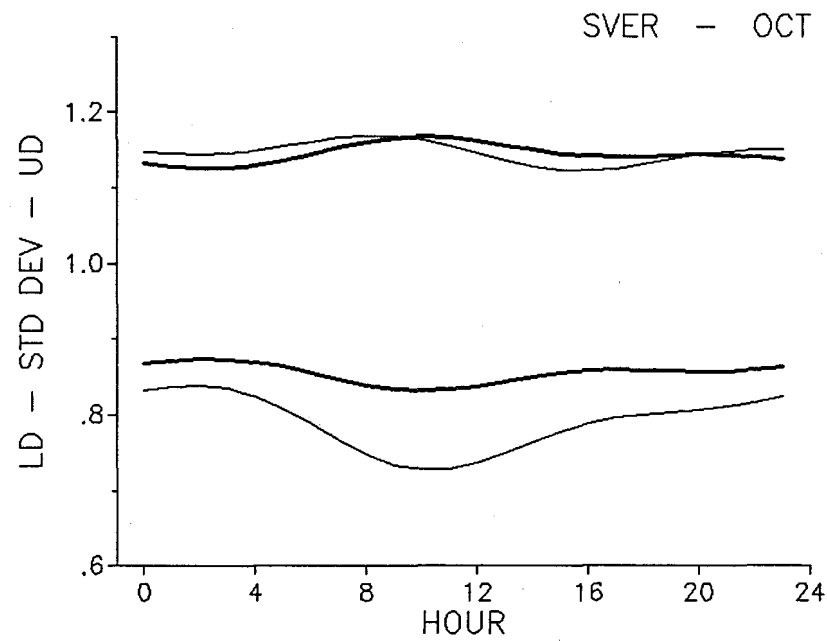
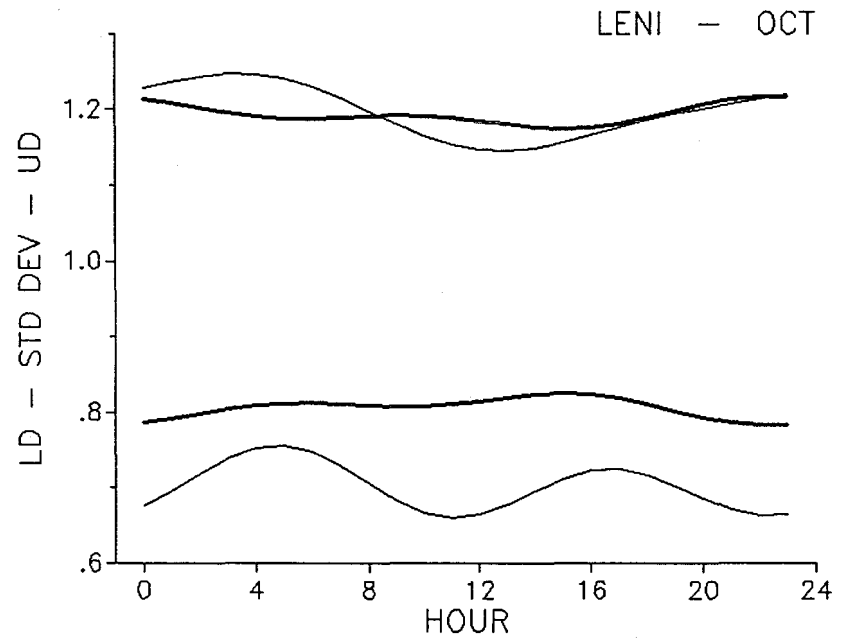
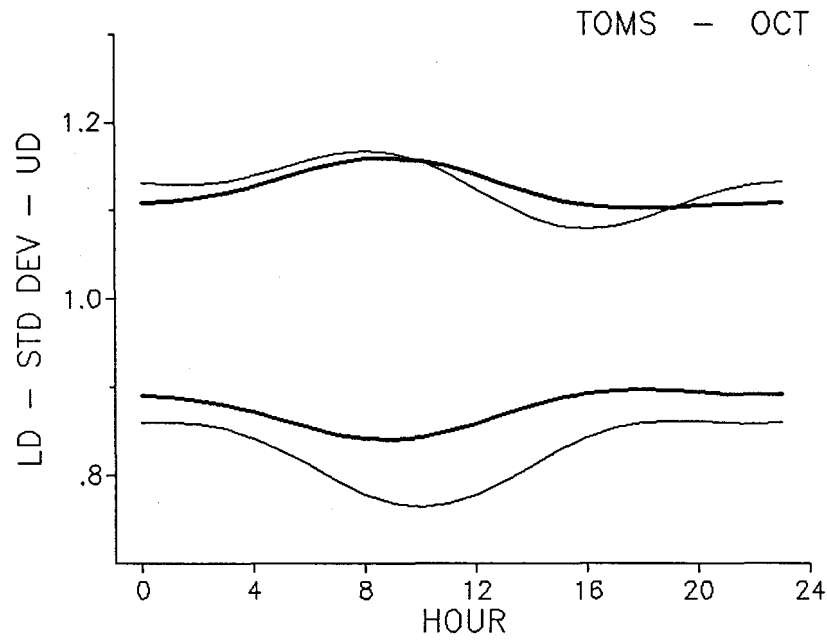
HOBA - MAR



# ACTIVE MAGNETIC

# --- HIGH SSN

119

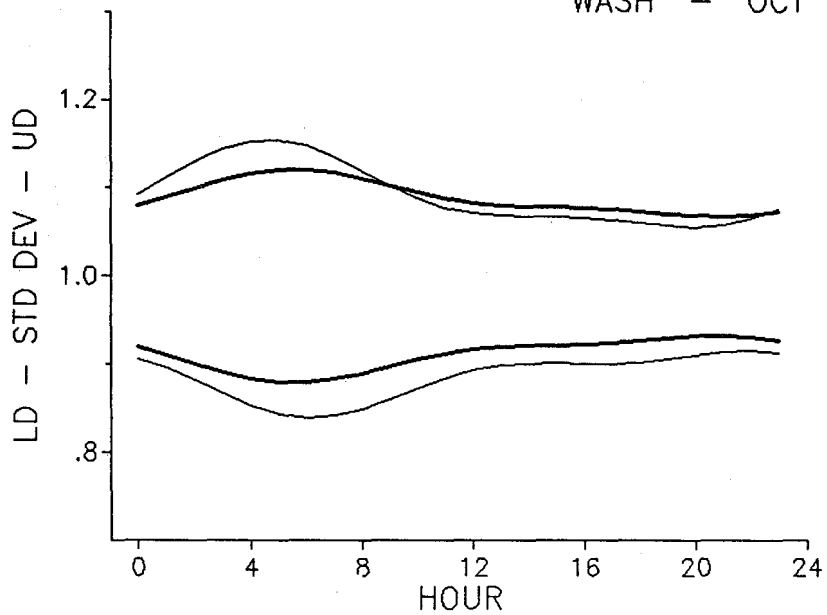


# ACTIVE MAGNETIC

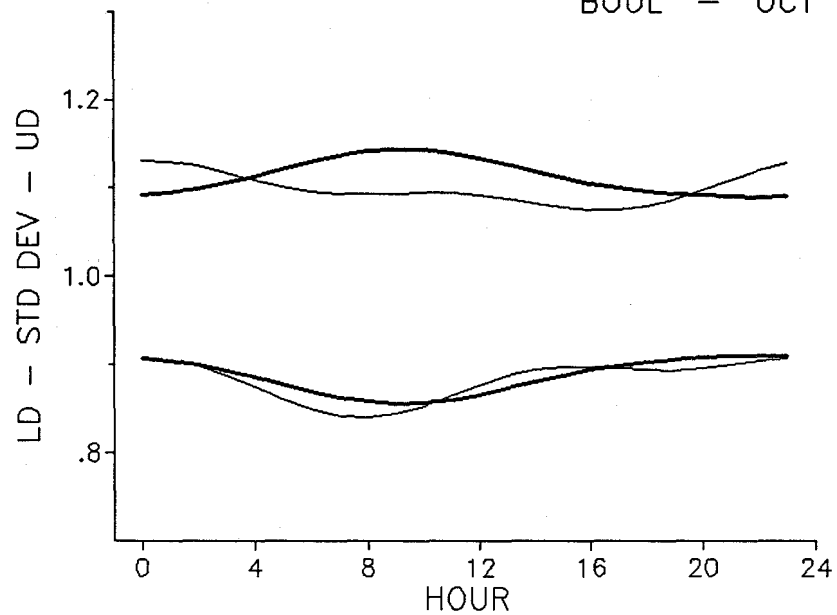
# --- HIGH SSN

120

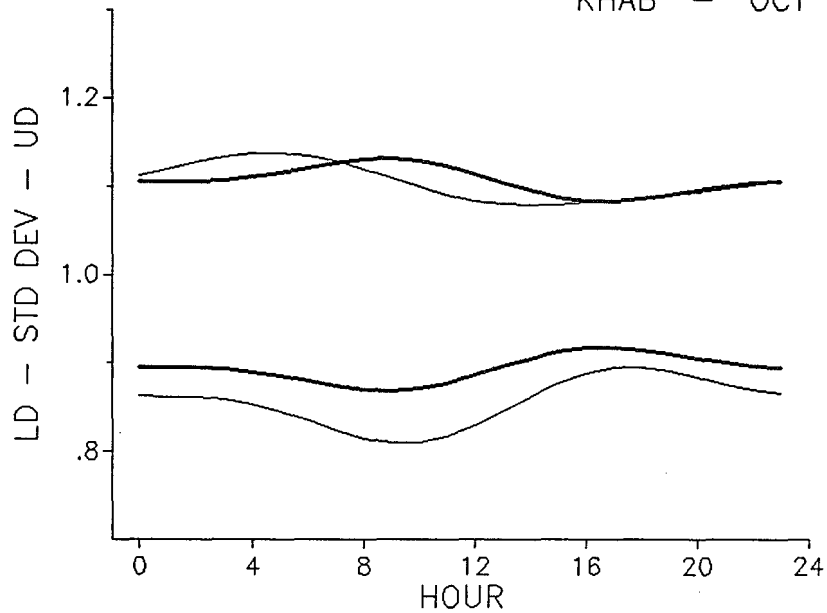
WASH - OCT



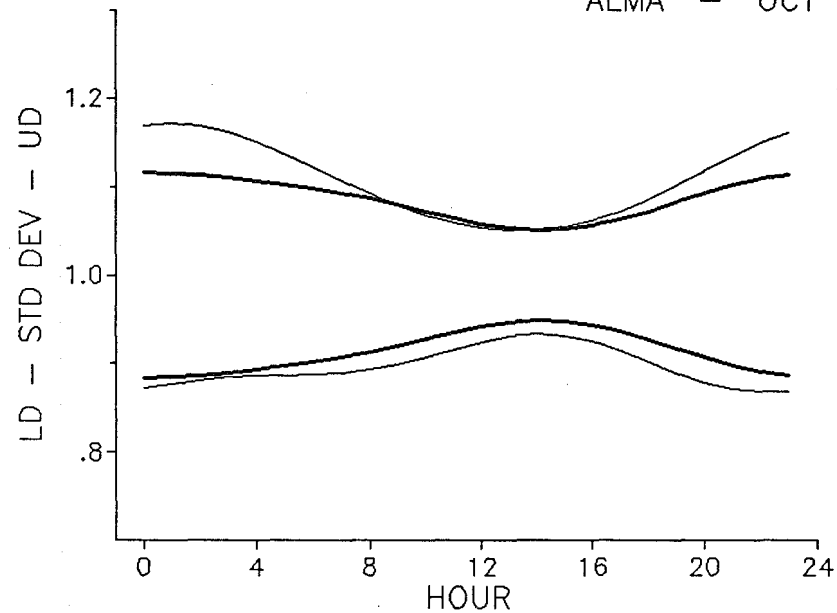
BOUL - OCT



KHAB - OCT



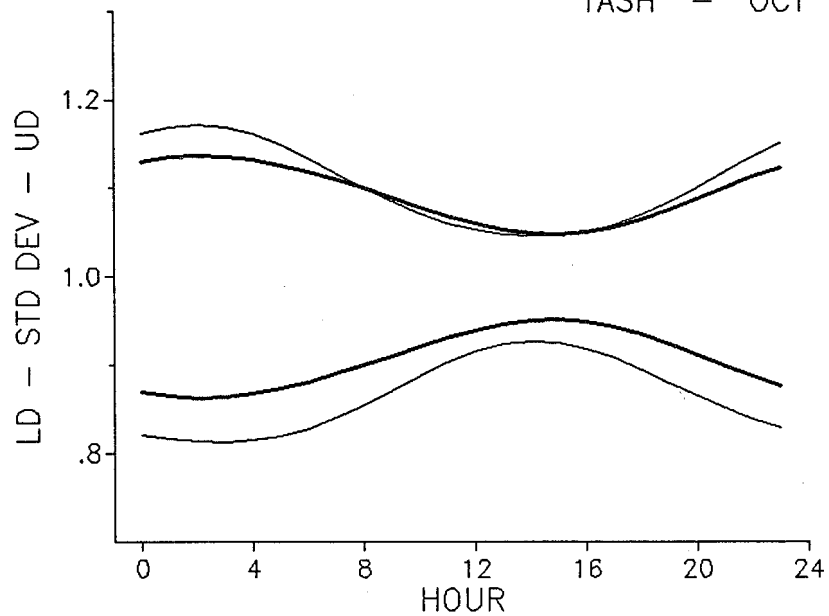
ALMA - OCT



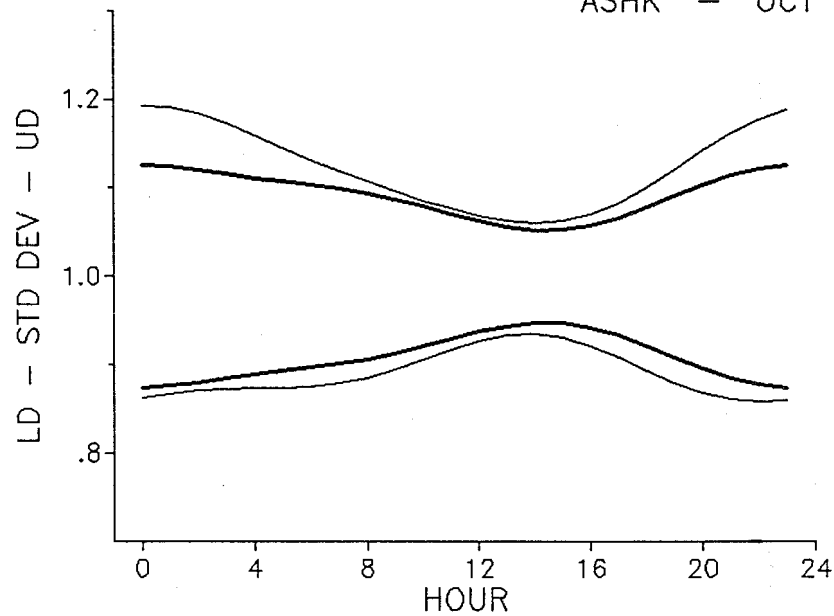
# ACTIVE MAGNETIC

# --- HIGH SSN

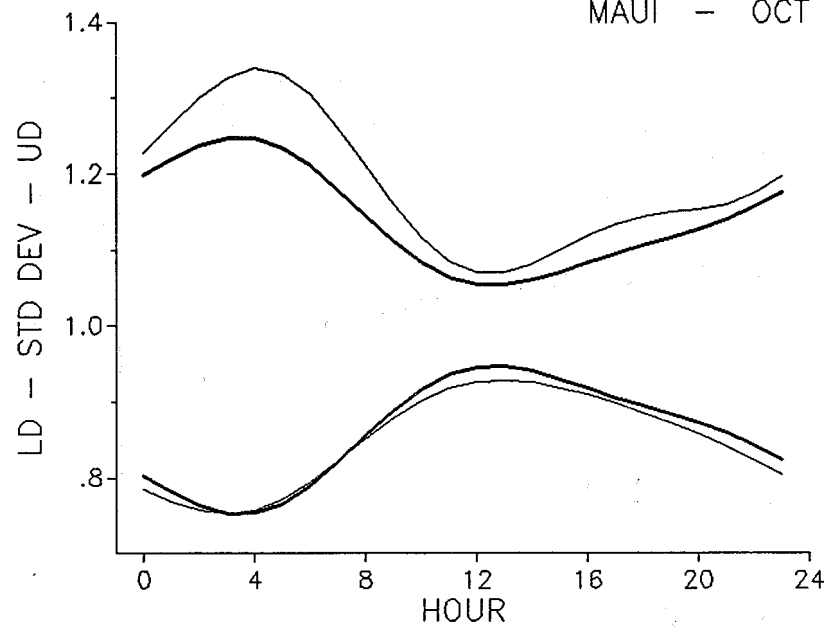
TASH - OCT



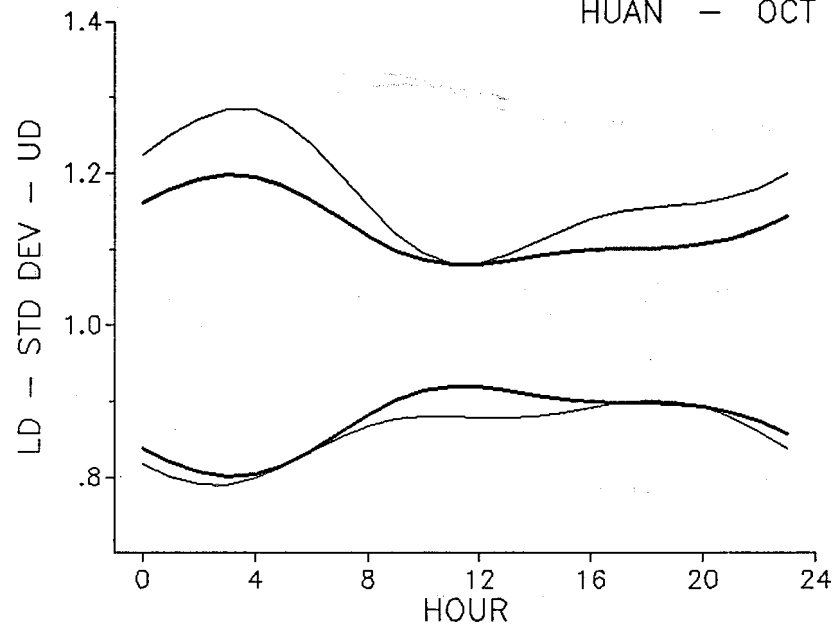
ASHK - OCT



MAUI - OCT



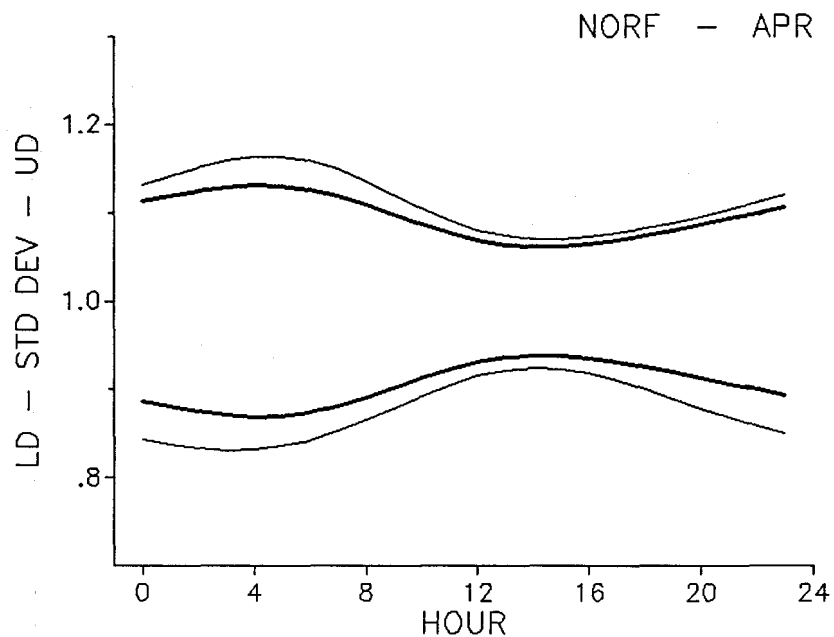
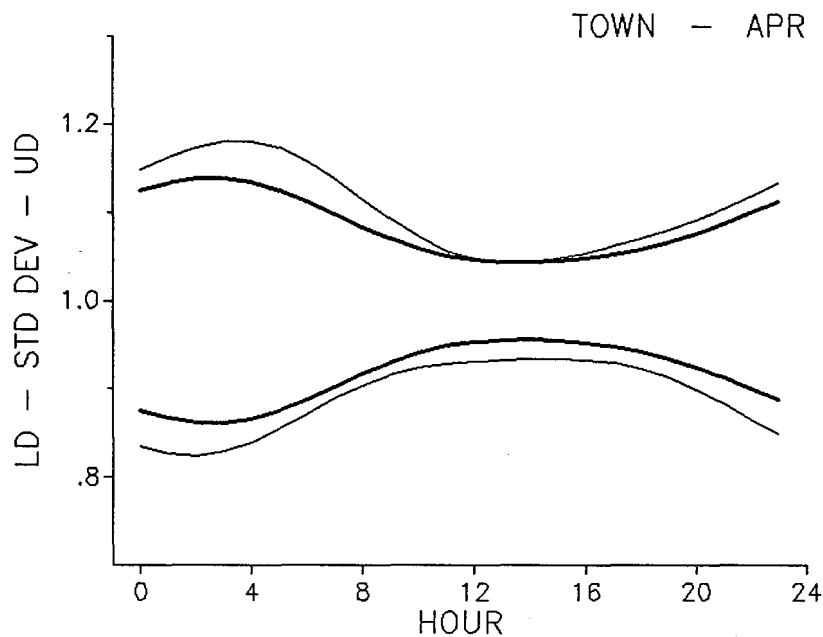
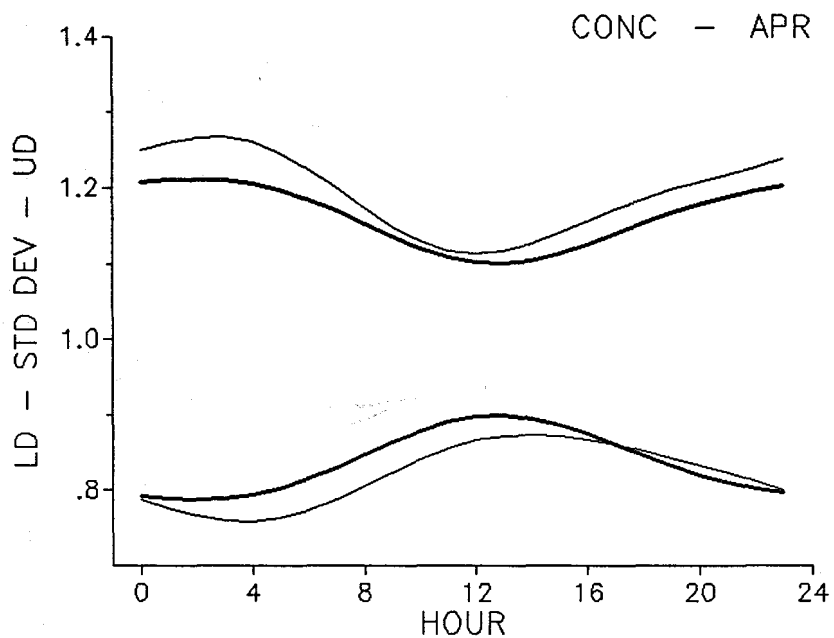
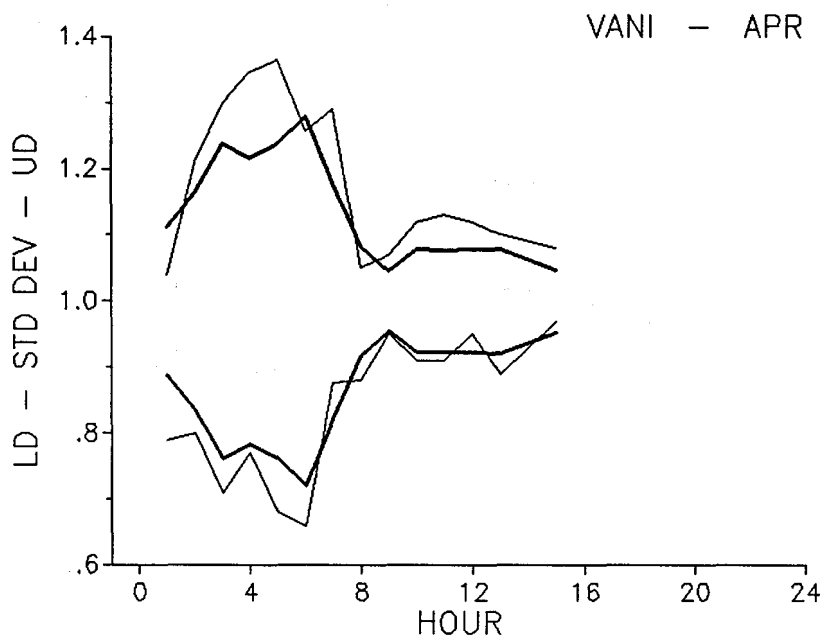
HUAN - OCT



# ACTIVE MAGNETIC

# --- HIGH SSN

122

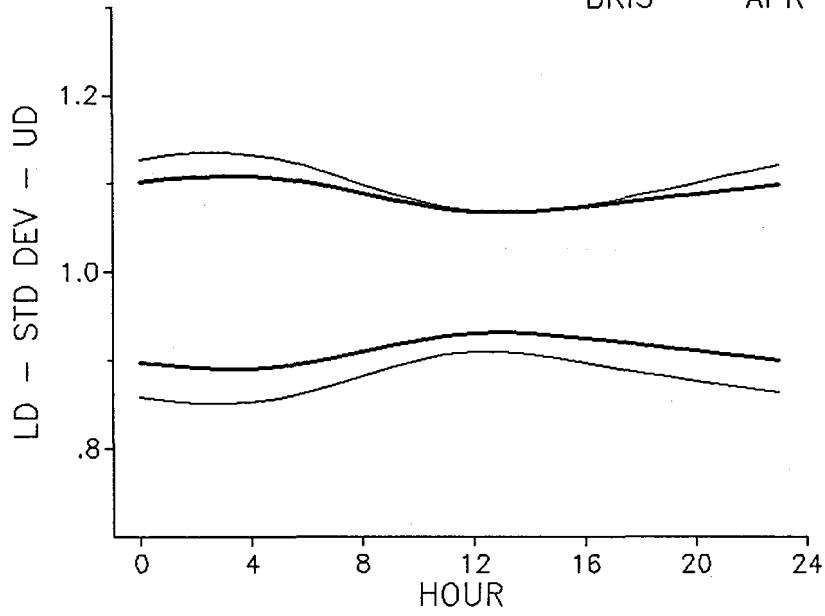




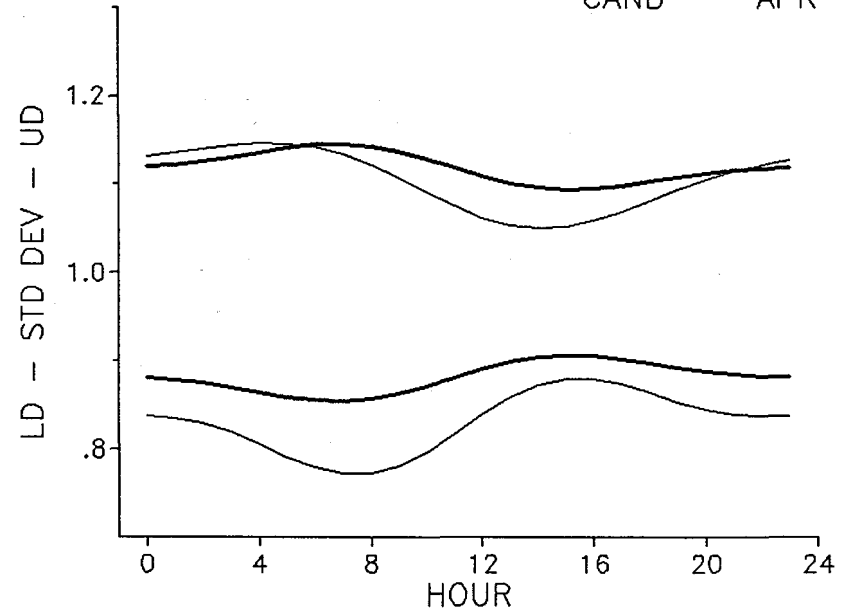
# ACTIVE MAGNETIC

# --- HIGH SSN

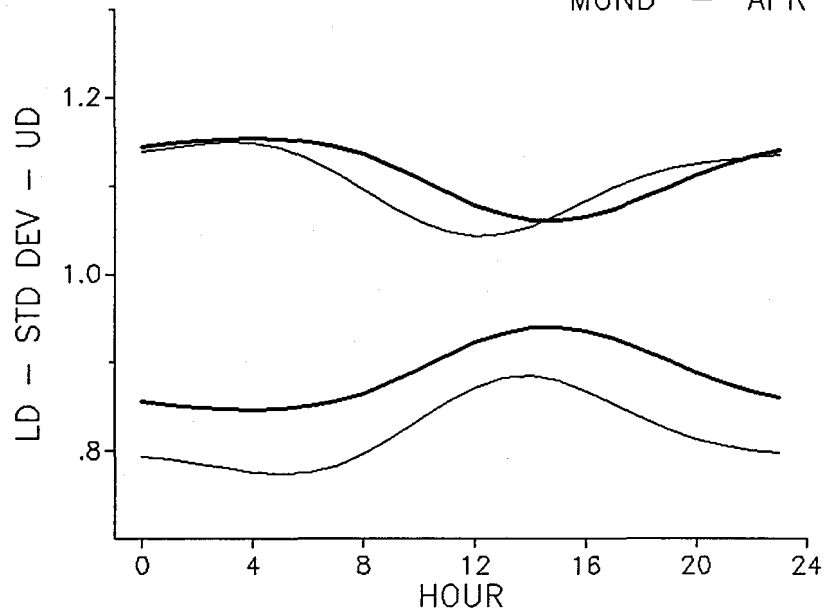
BRIS - APR



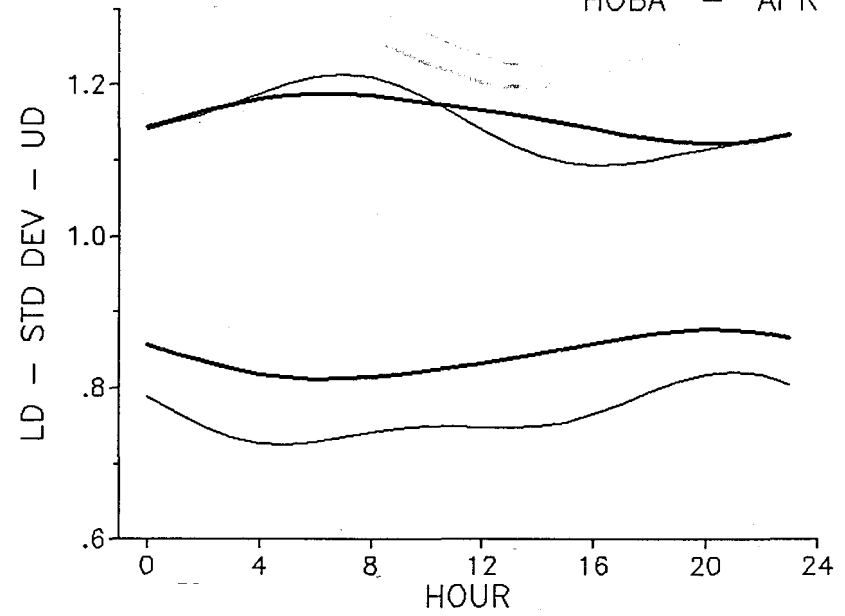
CANB - APR



MUND - APR



HOBA - APR





APPENDIX C

TABLES OF PERCENT DEVIATION, AND UPPER AND  
LOWER DECILE FACTORS AT TEN DEGREE  
INCREMENTS IN MAGNETIC LATITUDE  
FOR ALL MONTHS

\*\*\*\*\* QUIET MAGNETIC - LOW SOLAR \*\*\*\*\*

MONTH	00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23
55-65N 01	17.45	17.61	17.76	17.80	17.63	17.14	16.30	15.13	13.75	12.33	11.08	10.19	9.78	9.92	10.56	11.58	12.81	14.07	15.17	16.04	16.64	16.99	17.19	17.31
	1.24	1.24	1.24	1.25	1.25	1.24	1.23	1.21	1.19	1.17	1.15	1.13	1.13	1.13	1.14	1.15	1.17	1.19	1.20	1.22	1.22	1.23	1.23	1.24
	.81	.81	.80	.81	.81	.81	.82	.83	.85	.86	.87	.88	.89	.89	.88	.87	.86	.84	.83	.83	.82	.82	.81	.81
45-55N 01	17.31	17.35	17.31	17.11	16.68	16.00	15.04	13.88	12.62	11.43	10.44	9.81	9.60	9.84	10.50	11.47	12.60	13.77	14.84	15.71	16.36	16.79	17.06	17.21
	1.24	1.24	1.24	1.23	1.22	1.22	1.20	1.19	1.17	1.16	1.14	1.13	1.13	1.13	1.14	1.15	1.17	1.18	1.20	1.22	1.23	1.23	1.24	1.24
	.81	.81	.80	.80	.81	.82	.83	.85	.86	.88	.89	.90	.90	.89	.89	.88	.87	.86	.85	.84	.84	.83	.83	.82
35-45N 01	13.45	13.38	13.52	13.80	14.10	14.27	14.21	13.84	13.20	12.40	11.58	10.90	10.52	10.51	10.91	11.62	12.52	13.43	14.17	14.62	14.73	14.53	14.15	13.75
	1.19	1.19	1.19	1.20	1.20	1.20	1.19	1.19	1.19	1.18	1.17	1.16	1.15	1.15	1.15	1.16	1.17	1.18	1.19	1.20	1.20	1.20	1.20	1.20
	.87	.87	.86	.86	.85	.85	.85	.85	.86	.87	.89	.89	.90	.90	.89	.88	.86	.85	.85	.85	.85	.86	.86	.87
25-35N																								
15-25N 01	23.94	24.02	23.47	22.28	20.60	18.72	16.99	15.74	15.20	15.45	16.38	17.76	19.23	20.50	21.34	21.67	21.57	21.23	20.90	20.80	21.06	21.67	22.51	23.34
	1.35	1.35	1.35	1.33	1.31	1.28	1.25	1.23	1.21	1.21	1.22	1.24	1.26	1.29	1.30	1.31	1.31	1.31	1.30	1.30	1.31	1.31	1.33	1.34
	.79	.79	.80	.81	.82	.83	.84	.85	.84	.83	.81	.80	.78	.77	.77	.78	.79	.80	.81	.82	.82	.81	.81	.80
5-15N																								
5N-5S 07	28.28	30.02	30.24	28.88	26.18	22.64	18.90	15.58	13.13	11.74	11.34	11.62	12.16	12.58	12.63	12.31	11.81	11.51	11.78	12.94	15.11	18.17	21.75	25.32
	1.37	1.40	1.41	1.40	1.37	1.32	1.26	1.21	1.17	1.15	1.14	1.15	1.16	1.17	1.17	1.16	1.15	1.14	1.14	1.15	1.17	1.21	1.26	1.32
	.65	.64	.65	.68	.72	.76	.80	.83	.85	.86	.86	.85	.85	.85	.85	.85	.85	.85	.84	.82	.79	.75	.71	.67
5-15S 07	36.97	37.53	36.45	33.85	30.12	25.85	21.72	18.31	16.02	14.95	14.94	15.63	16.59	17.47	18.06	18.41	18.70	19.28	20.46	22.43	25.20	28.52	31.95	34.95
	1.58	1.60	1.59	1.56	1.50	1.43	1.35	1.29	1.24	1.22	1.21	1.22	1.23	1.24	1.25	1.26	1.26	1.27	1.29	1.32	1.37	1.42	1.49	1.54
	.69	.70	.71	.74	.77	.80	.82	.84	.85	.85	.84	.83	.81	.81	.80	.80	.80	.79	.78	.77	.75	.73	.71	.70
15-25S 07	16.05	15.69	15.46	15.32	15.17	14.94	14.59	14.13	13.59	13.08	12.71	12.57	12.73	13.20	13.95	14.88	15.86	16.75	17.42	17.78	17.80	17.53	17.07	16.53
	1.24	1.23	1.22	1.22	1.21	1.21	1.20	1.19	1.19	1.18	1.18	1.18	1.18	1.19	1.20	1.21	1.23	1.24	1.25	1.26	1.26	1.26	1.25	1.25
	.85	.85	.85	.85	.85	.86	.86	.87	.88	.89	.89	.89	.89	.88	.87	.85	.84	.83	.83	.82	.83	.83	.84	.85
25-35S 07	13.71	14.12	14.45	14.59	14.43	13.94	13.17	12.23	11.26	10.44	9.88	9.66	9.79	10.22	10.83	11.51	12.13	12.61	12.90	13.03	13.04	13.05	13.14	13.36
	1.18	1.19	1.19	1.20	1.20	1.19	1.18	1.17	1.16	1.15	1.14	1.14	1.14	1.15	1.16	1.16	1.17	1.17	1.18	1.17	1.17	1.17	1.17	1.17
	.86	.85	.85	.84	.84	.84	.85	.86	.88	.89	.90	.90	.90	.90	.89	.88	.88	.87	.87	.87	.87	.87	.87	.87
35-45S 07	13.12	13.49	13.94	14.34	14.51	14.35	13.80	12.89	11.76	10.58	9.57	8.88	8.61	8.80	9.35	10.14	11.02	11.82	12.42	12.77	12.91	12.90	12.86	12.91
	1.18	1.18	1.19	1.19	1.20	1.20	1.18	1.17	1.15	1.14	1.12	1.12	1.12	1.12	1.13	1.14	1.16	1.17	1.18	1.18	1.19	1.18	1.18	1.18
	.86	.86	.85	.85	.84	.85	.86	.87	.88	.89	.90	.90	.91	.90	.89	.89	.88	.88	.87	.87	.87	.87	.87	.86
45-55S 07	15.62	15.60	15.59	15.51	15.24	14.69	13.83	12.68	11.36	10.06	8.96	8.24	7.99	8.27	9.02	10.14	11.44	12.77	13.94	14.85	15.44	15.71	15.76	15.70
	1.21	1.21	1.21	1.21	1.21	1.20	1.18	1.17	1.15	1.14	1.12	1.12	1.11	1.11	1.12	1.13	1.15	1.17	1.18	1.20	1.20	1.21	1.21	1.21
	.82	.82	.81	.81	.82	.83	.84	.85	.88	.88	.90	.91	.91	.90	.90	.88	.88	.87	.86	.85	.84	.83	.83	.83
55-65S 07	19.42	20.39	20.93	20.89	20.18	18.83	16.98	14.85	12.71	10.82	9.37	8.47	8.12	8.26	8.77	9.52	10.42	11.37	12.35	13.38	14.46	15.64	16.90	18.20
	1.29	1.31	1.32	1.33	1.31	1.29	1.26	1.22	1.18	1.15	1.12	1.11	1.10	1.10	1.11	1.12	1.14	1.15	1.17	1.19	1.20	1.23	1.25	1.27
	.84	.84	.84	.84	.85	.85	.86	.87	.88	.89	.89	.90	.90	.89	.89	.88	.88	.87	.87	.86	.86	.85	.85	.85

MONTH	00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23	
55-65N	02	16.97	16.70	16.64	16.78	16.97	17.03	16.78	16.12	15.04	13.64	12.13	10.76	9.80	9.45	9.80	10.79	12.26	13.96	15.58	16.87	17.67	17.95	17.80	17.40
		1.24	1.23	1.23	1.23	1.23	1.23	1.22	1.21	1.19	1.17	1.15	1.13	1.12	1.12	1.12	1.14	1.16	1.19	1.21	1.23	1.25	1.26	1.25	1.25
		.82	.82	.82	.81	.81	.80	.80	.81	.82	.84	.85	.87	.88	.88	.88	.87	.85	.83	.82	.81	.80	.80	.81	.81
45-55N	02	15.45	15.16	14.97	14.86	14.77	14.59	14.23	13.64	12.84	11.89	10.93	10.13	9.63	9.54	9.91	10.69	11.77	13.00	14.19	15.16	15.80	16.08	16.03	15.78
		1.21	1.21	1.20	1.19	1.19	1.19	1.19	1.18	1.17	1.16	1.15	1.13	1.13	1.13	1.13	1.14	1.15	1.17	1.19	1.20	1.21	1.22	1.21	1.21
		.83	.83	.83	.83	.83	.83	.83	.84	.85	.86	.88	.89	.90	.90	.89	.88	.87	.85	.83	.83	.82	.82	.82	.83
35-45N	02	12.50	12.33	12.42	12.73	13.15	13.56	13.81	13.81	13.53	13.01	12.34	11.68	11.17	10.93	11.00	11.38	11.98	12.67	13.28	13.70	13.82	13.67	13.30	12.86
		1.17	1.17	1.17	1.17	1.17	1.18	1.19	1.19	1.18	1.18	1.17	1.16	1.16	1.16	1.16	1.16	1.17	1.17	1.18	1.18	1.19	1.18	1.18	1.17
		.87	.87	.87	.87	.86	.85	.85	.85	.85	.86	.87	.88	.89	.89	.89	.88	.87	.86	.85	.85	.85	.85	.86	.86
25-35N																									
15-25N	02	21.68	22.28	22.52	22.17	21.15	19.54	17.57	15.59	13.97	13.03	12.93	13.66	15.06	16.81	18.59	20.06	21.04	21.44	21.36	20.99	20.60	20.40	20.54	21.01
		1.30	1.31	1.31	1.31	1.30	1.27	1.24	1.21	1.18	1.16	1.16	1.17	1.20	1.23	1.26	1.29	1.31	1.32	1.32	1.31	1.30	1.29	1.29	1.29
		.81	.81	.80	.80	.81	.82	.83	.83	.84	.84	.83	.82	.81	.80	.79	.78	.78	.79	.80	.81	.82	.82	.82	.82
5-15N																									
5N-5S	08	23.03	24.81	25.75	25.59	24.30	22.05	19.22	16.31	13.80	12.07	11.24	11.23	11.75	12.46	13.05	13.34	13.35	13.25	13.29	13.71	14.70	16.29	18.37	20.71
		1.33	1.37	1.39	1.40	1.38	1.34	1.29	1.24	1.20	1.17	1.16	1.16	1.17	1.18	1.19	1.19	1.18	1.17	1.16	1.16	1.17	1.19	1.23	1.28
		.72	.71	.72	.73	.75	.77	.80	.83	.85	.87	.88	.88	.88	.87	.87	.86	.85	.85	.83	.82	.80	.77	.75	.73
5-15S	08	35.78	35.87	34.55	31.97	28.48	24.60	20.84	17.66	15.35	14.01	13.55	13.74	14.27	14.93	15.57	16.24	17.07	18.29	20.08	22.52	25.50	28.75	31.85	34.32
		1.55	1.55	1.53	1.49	1.43	1.37	1.30	1.25	1.21	1.18	1.16	1.16	1.16	1.17	1.18	1.20	1.21	1.24	1.27	1.32	1.37	1.43	1.48	1.52
		.69	.71	.73	.76	.79	.82	.84	.85	.85	.85	.83	.81	.80	.79	.78	.78	.78	.77	.76	.75	.73	.71	.70	.69
15-25S	08	17.63	17.64	17.59	17.40	17.02	16.47	15.80	15.15	14.65	14.42	14.52	14.96	15.64	16.45	17.25	17.91	18.36	18.57	18.56	18.39	18.15	17.91	17.74	17.64
		1.25	1.25	1.25	1.25	1.24	1.24	1.23	1.23	1.22	1.22	1.23	1.24	1.25	1.26	1.26	1.27	1.27	1.27	1.26	1.25	1.25	1.25	1.24	1.24
		.84	.84	.83	.83	.83	.84	.84	.85	.86	.86	.87	.87	.86	.85	.84	.84	.83	.83	.83	.83	.83	.83	.84	.84
25-35S	08	14.00	14.13	14.18	14.14	13.96	13.66	13.25	12.79	12.32	11.88	11.51	11.23	11.05	10.99	11.05	11.23	11.52	11.90	12.31	12.71	13.07	13.37	13.62	13.82
		1.18	1.18	1.18	1.18	1.18	1.18	1.17	1.17	1.17	1.17	1.16	1.16	1.16	1.16	1.16	1.16	1.16	1.17	1.17	1.18	1.18	1.18	1.18	1.18
		.85	.85	.84	.84	.84	.84	.85	.85	.86	.87	.88	.88	.89	.89	.89	.88	.88	.87	.87	.87	.87	.86	.86	.86
35-45S	08	12.27	12.66	13.14	13.58	13.84	13.80	13.41	12.68	11.73	10.70	9.76	9.07	8.72	8.73	9.07	9.65	10.32	10.98	11.50	11.82	11.96	11.98	11.97	12.05
		1.17	1.17	1.18	1.18	1.19	1.19	1.18	1.17	1.16	1.15	1.14	1.13	1.13	1.13	1.13	1.14	1.15	1.15	1.16	1.17	1.17	1.17	1.16	1.16
		.87	.86	.86	.85	.85	.85	.85	.86	.87	.88	.89	.90	.90	.90	.90	.89	.88	.88	.88	.87	.87	.87	.87	.87
45-55S	08	13.94	14.16	14.37	14.48	14.39	14.03	13.37	12.44	11.36	10.26	9.32	8.66	8.37	8.47	8.92	9.63	10.47	11.32	12.09	12.69	13.12	13.40	13.59	13.75
		1.18	1.18	1.19	1.19	1.19	1.18	1.18	1.16	1.15	1.13	1.12	1.11	1.11	1.11	1.12	1.13	1.14	1.15	1.16	1.17	1.17	1.18	1.18	1.18
		.84	.84	.83	.83	.83	.83	.84	.85	.86	.88	.89	.89	.90	.90	.90	.89	.88	.88	.87	.86	.85	.85	.84	.84
55-65S	08	16.84	16.98	16.91	16.60	16.04	15.25	14.25	13.12	11.94	10.82	9.86	9.15	8.75	8.68	8.94	9.50	10.31	11.28	12.34	13.40	14.40	15.26	15.97	16.50
		1.26	1.26	1.27	1.26	1.25	1.23	1.21	1.19	1.16	1.14	1.12	1.11	1.10	1.10	1.11	1.12	1.13	1.15	1.17	1.18	1.20	1.22	1.23	1.25
		.86	.86	.87	.87	.87	.88	.87	.87	.87	.87	.88	.88	.88	.88	.88	.88	.87	.86	.85	.85	.84	.84	.84	.85

MONTH	00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23
55-65N 03	17.03	16.81	16.43	15.99	15.54	15.09	14.62	14.08	13.43	12.64	11.74	10.78	9.87	9.15	8.75	8.79	9.31	10.28	11.60	13.07	14.50	15.70	16.54	16.97
	1.21	1.21	1.21	1.20	1.19	1.19	1.18	1.18	1.16	1.15	1.14	1.13	1.12	1.11	1.11	1.11	1.11	1.12	1.14	1.16	1.18	1.19	1.21	1.21
	.79	.79	.80	.80	.81	.81	.81	.82	.83	.84	.85	.87	.88	.89	.90	.90	.89	.87	.85	.84	.82	.80	.79	.79
45-55N 03	15.05	14.80	14.46	14.10	13.74	13.38	13.00	12.59	12.13	11.63	11.09	10.56	10.12	9.84	9.80	10.04	10.57	11.34	12.26	13.21	14.04	14.68	15.05	15.17
	1.19	1.18	1.17	1.17	1.17	1.16	1.16	1.16	1.15	1.14	1.14	1.13	1.12	1.12	1.12	1.13	1.14	1.15	1.16	1.17	1.19	1.19	1.19	1.19
	.82	.82	.82	.82	.83	.83	.83	.83	.84	.85	.86	.87	.88	.88	.88	.88	.88	.87	.86	.85	.83	.83	.82	.82
35-45N 03	13.24	12.90	12.56	12.26	12.01	11.80	11.59	11.36	11.09	10.77	10.43	10.09	9.82	9.67	9.72	9.99	10.50	11.18	11.93	12.65	13.21	13.55	13.65	13.52
	1.19	1.18	1.18	1.17	1.17	1.16	1.15	1.15	1.15	1.15	1.15	1.14	1.14	1.14	1.14	1.14	1.15	1.15	1.16	1.17	1.18	1.19	1.19	1.19
	.86	.87	.87	.87	.87	.87	.87	.87	.88	.88	.88	.89	.90	.90	.90	.89	.89	.88	.87	.86	.85	.85	.85	.85
25-35N																								
15-25N 03	20.85	20.39	20.05	19.67	19.06	18.10	16.74	15.11	13.39	11.88	10.85	10.53	11.02	12.31	14.25	16.56	18.92	20.98	22.49	23.30	23.42	23.00	22.28	21.50
	1.29	1.27	1.27	1.26	1.25	1.25	1.23	1.21	1.18	1.16	1.14	1.13	1.14	1.16	1.19	1.23	1.27	1.31	1.34	1.35	1.35	1.34	1.32	1.30
	.80	.80	.80	.80	.81	.82	.83	.85	.86	.87	.87	.87	.86	.85	.83	.82	.80	.79	.78	.78	.78	.78	.79	.79
5-15N																								
5N-5S 09	17.41	20.87	23.81	25.63	25.93	24.66	22.11	18.84	15.51	12.74	10.93	10.20	10.36	11.05	11.82	12.29	12.23	11.64	10.73	9.86	9.48	9.95	11.50	14.08
	1.23	1.29	1.34	1.37	1.38	1.37	1.33	1.29	1.24	1.20	1.17	1.16	1.16	1.16	1.17	1.17	1.17	1.15	1.14	1.12	1.11	1.12	1.14	1.18
	.80	.76	.74	.73	.74	.76	.80	.83	.87	.89	.90	.90	.90	.88	.87	.86	.86	.87	.87	.88	.88	.87	.85	.83
5-15S 09	31.23	32.76	33.04	31.91	29.42	25.88	21.78	17.68	14.10	11.43	9.89	9.44	9.88	10.92	12.22	13.55	14.78	15.95	17.21	18.75	20.74	23.20	26.00	28.82
	1.45	1.48	1.49	1.48	1.44	1.39	1.32	1.26	1.20	1.15	1.12	1.10	1.10	1.11	1.13	1.14	1.16	1.18	1.20	1.23	1.27	1.31	1.36	1.41
	.66	.66	.67	.69	.72	.76	.80	.83	.86	.87	.88	.87	.86	.84	.82	.81	.79	.78	.77	.75	.74	.72	.69	.67
15-25S 09	17.37	17.98	18.34	18.28	17.75	16.87	15.89	15.10	14.79	15.10	16.04	17.43	18.99	20.39	21.34	21.68	21.36	20.51	19.34	18.12	17.12	16.53	16.43	16.76
	1.26	1.26	1.26	1.26	1.25	1.24	1.23	1.23	1.24	1.25	1.27	1.29	1.31	1.33	1.34	1.34	1.33	1.32	1.31	1.29	1.27	1.26	1.26	1.25
	.85	.84	.83	.83	.83	.83	.84	.85	.86	.87	.87	.87	.86	.85	.84	.84	.83	.84	.84	.85	.86	.86	.86	.86
25-35S 09	16.47	16.53	16.18	15.49	14.57	13.60	12.74	12.09	11.73	11.61	11.67	11.80	11.89	11.90	11.83	11.74	11.70	11.81	12.14	12.72	13.50	14.41	15.30	16.03
	1.25	1.25	1.24	1.23	1.21	1.19	1.18	1.17	1.16	1.16	1.17	1.17	1.18	1.18	1.18	1.17	1.17	1.17	1.17	1.18	1.19	1.21	1.23	1.24
	.84	.85	.85	.85	.86	.86	.87	.87	.87	.87	.87	.87	.88	.88	.88	.88	.88	.87	.87	.86	.85	.85	.85	.84
35-45S 09	12.57	12.85	13.14	13.35	13.42	13.28	12.91	12.33	11.63	10.88	10.18	9.66	9.33	9.24	9.38	9.69	10.14	10.64	11.10	11.50	11.80	12.01	12.17	12.35
	1.17	1.17	1.17	1.18	1.17	1.17	1.16	1.16	1.15	1.14	1.14	1.13	1.13	1.13	1.13	1.14	1.15	1.15	1.16	1.16	1.16	1.17	1.17	1.17
	.86	.85	.85	.85	.85	.85	.85	.86	.87	.88	.89	.90	.91	.91	.91	.90	.89	.89	.89	.88	.88	.87	.87	.86
45-55S 09	14.20	14.42	14.52	14.48	14.22	13.72	13.01	12.18	11.30	10.48	9.83	9.42	9.26	9.36	9.67	10.15	10.72	11.32	11.92	12.45	12.92	13.31	13.64	13.94
	1.19	1.19	1.19	1.19	1.19	1.18	1.17	1.16	1.15	1.13	1.13	1.12	1.11	1.12	1.12	1.13	1.13	1.14	1.16	1.17	1.18	1.18	1.19	1.19
	.83	.83	.82	.82	.82	.83	.84	.85	.86	.87	.88	.88	.89	.88	.88	.88	.88	.88	.88	.87	.87	.86	.85	.84
55-65S 09	17.46	17.29	16.84	16.18	15.40	14.56	13.70	12.86	12.07	11.35	10.70	10.15	9.73	9.49	9.49	9.76	10.34	11.21	12.32	13.56	14.81	15.92	16.78	17.30
	1.25	1.26	1.26	1.25	1.23	1.21	1.19	1.18	1.16	1.15	1.13	1.13	1.12	1.12	1.12	1.12	1.13	1.13	1.15	1.17	1.19	1.21	1.23	1.24
	.82	.83	.84	.86	.86	.87	.87	.87	.86	.86	.87	.87	.87	.88	.87	.87	.86	.85	.83	.82	.80	.80	.80	.80

MONTH	00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23
55-65N 04	17.05	17.46	17.42	17.00	16.29	15.43	14.54	13.72	13.01	12.42	11.90	11.41	10.91	10.40	9.93	9.58	9.45	9.64	10.20	11.11	12.32	13.69	15.04	16.21
	1.19	1.20	1.20	1.20	1.20	1.19	1.18	1.17	1.16	1.15	1.15	1.14	1.13	1.12	1.11	1.11	1.11	1.10	1.11	1.12	1.13	1.14	1.16	1.17
	.76	.76	.77	.78	.79	.81	.82	.83	.84	.85	.85	.86	.87	.87	.88	.88	.88	.87	.86	.84	.83	.81	.79	.77
45-55N 04	14.19	14.25	14.19	14.04	13.80	13.51	13.18	12.84	12.49	12.15	11.82	11.51	11.25	11.06	10.97	11.00	11.15	11.43	11.83	12.31	12.81	13.29	13.70	14.00
	1.17	1.17	1.17	1.17	1.17	1.17	1.17	1.16	1.16	1.16	1.15	1.15	1.14	1.14	1.13	1.13	1.14	1.14	1.14	1.15	1.15	1.16	1.16	1.16
	.82	.81	.82	.83	.83	.83	.84	.84	.85	.85	.85	.86	.86	.86	.87	.87	.86	.86	.85	.85	.84	.83	.82	.81
35-45N 04	13.69	13.33	12.90	12.45	12.04	11.70	11.42	11.20	11.02	10.86	10.70	10.53	10.39	10.31	10.33	10.50	10.85	11.37	11.99	12.65	13.24	13.67	13.90	13.89
	1.16	1.16	1.15	1.15	1.14	1.14	1.14	1.14	1.14	1.14	1.14	1.14	1.14	1.14	1.13	1.13	1.14	1.14	1.15	1.16	1.16	1.17	1.17	1.17
	.81	.81	.82	.83	.84	.84	.85	.85	.86	.86	.87	.87	.88	.88	.88	.88	.87	.86	.84	.83	.81	.81	.80	.80
25-35N																								
15-25N 04	22.89	22.59	21.94	20.97	19.74	18.30	16.76	15.23	13.82	12.64	11.77	11.27	11.17	11.46	12.13	13.14	14.42	15.90	17.47	19.01	20.40	21.54	22.35	22.81
	1.33	1.33	1.32	1.30	1.28	1.26	1.23	1.21	1.18	1.17	1.15	1.15	1.15	1.15	1.16	1.17	1.19	1.21	1.23	1.26	1.28	1.30	1.32	1.33
	.78	.79	.79	.80	.80	.81	.82	.83	.84	.85	.86	.86	.86	.86	.85	.84	.83	.81	.80	.79	.78	.78	.78	.78
5-15N																								
5N-5S 10	18.77	21.11	22.84	23.58	23.17	21.68	19.38	16.72	14.18	12.13	10.83	10.29	10.35	10.73	11.16	11.40	11.37	11.12	10.84	10.77	11.18	12.22	13.95	16.22
	1.24	1.28	1.30	1.31	1.31	1.29	1.26	1.23	1.19	1.17	1.15	1.14	1.14	1.14	1.14	1.14	1.13	1.13	1.12	1.12	1.13	1.15	1.17	1.21
	.77	.74	.72	.71	.72	.74	.78	.81	.85	.88	.89	.90	.89	.89	.88	.87	.87	.87	.87	.87	.87	.85	.83	.80
5-15S 10	25.65	27.32	28.19	28.06	26.85	24.66	21.74	18.47	15.24	12.42	10.28	8.94	8.37	8.46	9.02	9.89	10.94	12.12	13.44	14.97	16.76	18.83	21.12	23.47
	1.35	1.39	1.42	1.43	1.42	1.39	1.35	1.29	1.24	1.18	1.14	1.11	1.09	1.09	1.10	1.11	1.12	1.14	1.15	1.17	1.19	1.22	1.26	1.30
	.70	.69	.69	.71	.73	.76	.79	.83	.85	.88	.89	.89	.89	.89	.88	.87	.85	.84	.82	.80	.78	.76	.74	.71
15-25S 10	23.23	23.36	23.16	22.56	21.57	20.25	18.77	17.30	16.03	15.14	14.69	14.71	15.13	15.84	16.72	17.65	18.54	19.34	20.04	20.66	21.23	21.80	22.35	22.85
	1.29	1.30	1.30	1.29	1.28	1.26	1.24	1.23	1.21	1.20	1.19	1.19	1.19	1.20	1.21	1.22	1.23	1.24	1.24	1.25	1.26	1.27	1.28	1.28
	.69	.69	.69	.70	.71	.74	.76	.79	.81	.82	.83	.82	.81	.79	.78	.76	.75	.75	.74	.74	.73	.72	.71	.70
25-35S 10	17.82	17.89	17.58	16.89	15.91	14.80	13.74	12.92	12.46	12.42	12.74	13.33	14.02	14.67	15.16	15.44	15.53	15.51	15.49	15.58	15.85	16.31	16.88	17.43
	1.23	1.23	1.23	1.22	1.21	1.20	1.19	1.18	1.17	1.17	1.17	1.17	1.18	1.20	1.21	1.22	1.22	1.22	1.22	1.22	1.22	1.22	1.22	1.22
	.79	.79	.80	.81	.82	.84	.85	.85	.86	.85	.84	.83	.82	.82	.82	.82	.82	.82	.82	.83	.82	.82	.81	.80
35-45S 10	14.46	14.76	14.93	14.92	14.70	14.28	13.69	13.04	12.41	11.91	11.57	11.42	11.45	11.63	11.89	12.18	12.45	12.71	12.93	13.12	13.31	13.53	13.81	14.12
	1.20	1.21	1.21	1.21	1.21	1.20	1.19	1.19	1.18	1.16	1.16	1.16	1.16	1.16	1.17	1.17	1.18	1.18	1.18	1.18	1.18	1.19	1.19	1.19
	.84	.84	.83	.84	.84	.84	.85	.86	.86	.86	.87	.87	.87	.87	.87	.86	.86	.86	.86	.85	.85	.85	.84	.84
45-55S 10	15.28	15.33	15.23	14.97	14.55	13.99	13.36	12.73	12.18	11.75	11.48	11.37	11.42	11.58	11.83	12.15	12.51	12.91	13.33	13.75	14.16	14.53	14.85	15.11
	1.20	1.20	1.20	1.20	1.19	1.18	1.17	1.16	1.15	1.15	1.14	1.14	1.14	1.15	1.15	1.16	1.16	1.17	1.18	1.19	1.19	1.19	1.20	1.20
	.83	.82	.82	.82	.82	.83	.84	.85	.85	.86	.86	.86	.86	.86	.86	.86	.85	.85	.85	.85	.84	.84	.84	.83
55-65S 10	20.38	20.35	19.78	18.76	17.47	16.10	14.82	13.75	12.95	12.40	12.05	11.80	11.59	11.40	11.27	11.28	11.52	12.10	13.05	14.33	15.84	17.39	18.79	19.83
	1.30	1.31	1.30	1.29	1.27	1.24	1.22	1.19	1.18	1.16	1.15	1.15	1.14	1.14	1.14	1.14	1.15	1.16	1.17	1.19	1.22	1.24	1.27	1.29
	.79	.80	.81	.82	.84	.85	.86	.86	.86	.86	.85	.85	.85	.86	.86	.86	.86	.85	.84	.83	.81	.80	.79	.79

MONTH	00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23
55-65N 05	18.25	18.86	18.84	18.25	17.24	16.03	14.80	13.70	12.80	12.10	11.52	10.99	10.43	9.83	9.23	8.72	8.46	8.57	9.16	10.25	11.77	13.56	15.40	17.04
	1.20	1.21	1.22	1.22	1.21	1.20	1.18	1.17	1.16	1.14	1.13	1.12	1.12	1.11	1.10	1.10	1.09	1.09	1.10	1.11	1.13	1.14	1.16	1.19
	.74	.73	.74	.75	.76	.78	.80	.81	.83	.83	.84	.85	.86	.87	.87	.88	.89	.89	.88	.86	.84	.81	.78	.76
45-55N 05	15.32	15.28	15.05	14.69	14.26	13.80	13.36	12.94	12.53	12.13	11.73	11.34	10.98	10.69	10.53	10.55	10.77	11.20	11.83	12.58	13.37	14.12	14.73	15.14
	1.18	1.18	1.18	1.18	1.18	1.17	1.17	1.16	1.16	1.15	1.15	1.14	1.13	1.13	1.13	1.13	1.13	1.14	1.14	1.15	1.16	1.16	1.17	1.17
	.80	.80	.80	.81	.82	.82	.83	.83	.84	.84	.85	.85	.86	.86	.87	.87	.87	.86	.85	.84	.83	.82	.81	.80
35-45N 05	10.86	10.90	10.95	11.02	11.13	11.28	11.45	11.62	11.78	11.90	11.95	11.92	11.82	11.67	11.48	11.28	11.10	10.96	10.86	10.80	10.78	10.79	10.81	10.84
	1.14	1.13	1.13	1.13	1.13	1.13	1.14	1.14	1.15	1.15	1.15	1.16	1.16	1.16	1.16	1.16	1.15	1.15	1.15	1.15	1.14	1.14	1.14	1.14
	.86	.86	.86	.86	.85	.85	.85	.85	.85	.85	.85	.86	.87	.87	.88	.89	.89	.89	.88	.88	.88	.87	.87	.87
25-35N																								
15-25N 05	20.04	20.29	20.21	19.77	18.98	17.92	16.72	15.51	14.43	13.58	13.02	12.77	12.78	13.03	13.44	13.98	14.61	15.28	15.98	16.70	17.44	18.18	18.90	19.55
	1.29	1.30	1.30	1.29	1.28	1.25	1.23	1.20	1.18	1.16	1.15	1.14	1.14	1.14	1.14	1.15	1.16	1.17	1.19	1.20	1.22	1.24	1.26	1.28
	.79	.80	.80	.81	.81	.82	.82	.82	.83	.83	.83	.83	.83	.83	.83	.82	.81	.81	.80	.79	.79	.79	.79	.79
5-15N																								
5N-5S 11	19.32	21.55	23.11	23.70	23.18	21.62	19.27	16.53	13.83	11.55	9.91	8.98	8.65	8.73	8.97	9.21	9.35	9.43	9.60	10.03	10.92	12.38	14.38	16.79
	1.26	1.29	1.31	1.32	1.32	1.30	1.26	1.23	1.19	1.16	1.14	1.12	1.12	1.12	1.12	1.12	1.12	1.12	1.12	1.13	1.14	1.16	1.19	1.22
	.77	.74	.73	.72	.73	.75	.79	.82	.85	.88	.90	.90	.91	.90	.90	.90	.89	.89	.89	.89	.87	.86	.83	.80
5-15S 11	22.36	23.09	23.11	22.37	20.92	18.95	16.70	14.44	12.42	10.82	9.73	9.15	9.01	9.22	9.66	10.27	11.01	11.92	13.02	14.35	15.91	17.64	19.42	21.07
	1.30	1.31	1.31	1.30	1.28	1.25	1.22	1.19	1.16	1.13	1.12	1.10	1.10	1.10	1.10	1.10	1.11	1.12	1.14	1.16	1.18	1.21	1.24	1.27
	.74	.74	.74	.75	.77	.79	.81	.84	.86	.88	.89	.90	.90	.89	.88	.87	.86	.85	.83	.82	.80	.79	.77	.76
15-25S 11	13.31	13.40	13.64	13.94	14.21	14.37	14.38	14.26	14.05	13.83	13.68	13.68	13.86	14.21	14.67	15.14	15.51	15.69	15.62	15.31	14.82	14.27	13.77	13.43
	1.17	1.18	1.18	1.19	1.20	1.21	1.21	1.21	1.20	1.20	1.19	1.18	1.17	1.17	1.18	1.18	1.19	1.20	1.20	1.20	1.20	1.19	1.18	1.18
	.86	.86	.86	.85	.85	.85	.85	.85	.85	.85	.84	.84	.83	.82	.82	.81	.81	.81	.82	.83	.84	.85	.85	.86
25-35S 11	16.93	18.05	18.82	19.09	18.80	18.01	16.88	15.62	14.47	13.60	13.10	12.97	13.12	13.39	13.64	13.76	13.71	13.51	13.28	13.15	13.27	13.74	14.58	15.69
	1.22	1.23	1.25	1.25	1.25	1.24	1.23	1.21	1.19	1.17	1.16	1.15	1.14	1.15	1.15	1.15	1.16	1.16	1.16	1.16	1.17	1.17	1.19	1.20
	.79	.78	.78	.78	.78	.79	.80	.82	.83	.83	.83	.83	.82	.81	.81	.81	.81	.82	.82	.83	.83	.83	.82	.81
35-45S 11	14.07	14.55	14.89	15.02	14.91	14.59	14.12	13.60	13.10	12.72	12.48	12.38	12.37	12.41	12.43	12.42	12.35	12.25	12.18	12.18	12.31	12.58	12.99	13.51
	1.19	1.19	1.20	1.20	1.20	1.19	1.19	1.18	1.17	1.17	1.17	1.16	1.16	1.16	1.16	1.16	1.17	1.17	1.16	1.16	1.17	1.17	1.17	1.18
	.84	.83	.83	.83	.83	.83	.83	.84	.84	.85	.85	.85	.85	.85	.85	.86	.86	.86	.86	.86	.86	.86	.85	.84
45-55S 11	14.90	14.96	14.85	14.57	14.16	13.68	13.22	12.83	12.56	12.43	12.44	12.53	12.67	12.81	12.92	13.00	13.05	13.11	13.23	13.43	13.69	14.02	14.37	14.68
	1.19	1.19	1.19	1.19	1.18	1.18	1.17	1.16	1.16	1.16	1.16	1.16	1.16	1.16	1.16	1.16	1.17	1.17	1.17	1.18	1.18	1.19	1.19	1.19
	.82	.82	.82	.83	.83	.84	.84	.84	.84	.85	.84	.84	.84	.84	.84	.84	.84	.84	.84	.84	.83	.83	.83	.82
55-65S 11	21.57	21.80	21.22	19.92	18.13	16.13	14.22	12.64	11.51	10.85	10.58	10.54	10.59	10.64	10.65	10.68	10.85	11.31	12.17	13.47	15.16	17.08	18.98	20.56
	1.30	1.30	1.29	1.28	1.25	1.23	1.20	1.18	1.16	1.15	1.14	1.14	1.14	1.14	1.14	1.14	1.14	1.15	1.17	1.19	1.21	1.24	1.26	1.28
	.75	.74	.75	.77	.79	.81	.84	.85	.86	.87	.86	.86	.86	.86	.86	.86	.87	.87	.87	.86	.85	.83	.81	.78



MONTH	00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23
55-65N 06	12.11	12.47	12.52	12.31	11.91	11.42	10.91	10.43	10.00	9.62	9.24	8.84	8.39	7.91	7.44	7.06	6.84	6.86	7.18	7.77	8.61	9.59	10.58	11.46
	1.14	1.15	1.15	1.15	1.15	1.15	1.14	1.14	1.13	1.12	1.11	1.11	1.10	1.10	1.09	1.09	1.08	1.08	1.09	1.09	1.10	1.11	1.12	1.13
	.84	.84	.84	.85	.86	.86	.87	.87	.88	.88	.89	.89	.89	.90	.91	.91	.91	.92	.91	.90	.89	.88	.86	.85
45-55N 06	13.26	13.27	13.10	12.81	12.45	12.09	11.76	11.47	11.20	10.94	10.66	10.35	10.02	9.72	9.49	9.39	9.46	9.72	10.16	10.74	11.40	12.06	12.63	13.04
	1.17	1.17	1.17	1.17	1.17	1.16	1.16	1.15	1.15	1.15	1.14	1.14	1.13	1.13	1.13	1.12	1.13	1.13	1.13	1.13	1.14	1.15	1.16	1.16
	.84	.84	.84	.85	.85	.86	.86	.86	.87	.87	.87	.88	.88	.88	.89	.89	.89	.89	.88	.88	.87	.86	.85	.84
35-45N 06	11.39	11.49	11.49	11.42	11.32	11.22	11.15	11.11	11.10	11.08	11.03	10.93	10.77	10.56	10.33	10.12	9.97	9.90	9.95	10.10	10.34	10.64	10.94	11.20
	1.14	1.14	1.14	1.14	1.14	1.14	1.14	1.15	1.15	1.15	1.15	1.15	1.15	1.15	1.14	1.14	1.14	1.13	1.14	1.13	1.13	1.14	1.14	1.14
	.85	.85	.85	.86	.86	.87	.87	.87	.87	.87	.87	.88	.88	.89	.89	.90	.90	.89	.89	.88	.87	.86	.86	.85
25-35N																								
15-25N 06	18.35	18.40	18.32	18.11	17.75	17.26	16.67	16.03	15.40	14.83	14.37	14.05	13.89	13.91	14.10	14.45	14.93	15.49	16.08	16.66	17.17	17.61	17.95	18.20
	1.25	1.25	1.26	1.26	1.26	1.25	1.24	1.23	1.21	1.20	1.18	1.17	1.15	1.15	1.15	1.15	1.16	1.17	1.18	1.20	1.21	1.22	1.23	1.24
	.78	.79	.79	.80	.81	.82	.82	.83	.83	.82	.82	.81	.80	.79	.79	.79	.79	.79	.79	.79	.79	.78	.78	.78
5-15N																								
5N-5S 12	22.38	24.66	25.95	26.00	24.76	22.42	19.36	16.08	13.07	10.70	9.16	8.43	8.34	8.62	8.99	9.27	9.42	9.55	9.85	10.58	11.93	13.96	16.58	19.52
	1.28	1.31	1.34	1.35	1.34	1.31	1.27	1.23	1.18	1.15	1.12	1.11	1.11	1.11	1.12	1.12	1.12	1.12	1.12	1.13	1.14	1.16	1.19	1.23
	.70	.68	.68	.68	.71	.74	.78	.82	.86	.88	.90	.90	.90	.90	.90	.90	.89	.89	.88	.86	.84	.81	.77	.74
5-15S 12	23.33	25.08	25.99	25.89	24.76	22.73	20.06	17.12	14.24	11.74	9.79	8.47	7.73	7.46	7.55	7.89	8.44	9.24	10.34	11.81	13.69	15.94	18.45	21.01
	1.31	1.33	1.35	1.34	1.33	1.30	1.27	1.23	1.19	1.16	1.13	1.11	1.10	1.09	1.09	1.09	1.10	1.10	1.12	1.14	1.17	1.20	1.24	1.27
	.73	.71	.70	.70	.71	.73	.77	.80	.84	.86	.89	.90	.91	.90	.90	.89	.88	.87	.86	.84	.83	.80	.78	.75
15-25S 12	15.61	15.81	16.09	16.37	16.59	16.70	16.64	16.44	16.12	15.74	15.38	15.10	14.95	14.96	15.12	15.36	15.63	15.85	15.96	15.95	15.84	15.68	15.56	15.52
	1.18	1.18	1.19	1.19	1.20	1.21	1.21	1.22	1.22	1.22	1.21	1.21	1.21	1.20	1.20	1.20	1.20	1.20	1.20	1.20	1.20	1.19	1.19	1.18
	.80	.80	.80	.80	.80	.79	.80	.80	.80	.81	.81	.82	.82	.82	.82	.81	.80	.80	.79	.79	.79	.79	.80	.80
25-35S 12	18.37	19.37	19.96	19.97	19.36	18.18	16.64	15.00	13.53	12.45	11.88	11.82	12.17	12.75	13.38	13.89	14.22	14.36	14.39	14.46	14.71	15.25	16.10	17.19
	1.25	1.26	1.27	1.27	1.26	1.25	1.23	1.20	1.18	1.16	1.15	1.15	1.15	1.16	1.17	1.18	1.19	1.19	1.20	1.20	1.21	1.21	1.22	1.24
	.80	.79	.78	.77	.78	.79	.81	.82	.84	.85	.85	.85	.85	.84	.83	.83	.83	.84	.84	.84	.84	.85	.84	.82
35-45S 12	14.30	14.73	15.01	15.06	14.89	14.54	14.11	13.69	13.39	13.27	13.32	13.50	13.75	13.95	14.05	13.99	13.78	13.48	13.17	12.94	12.88	13.01	13.33	13.79
	1.19	1.20	1.20	1.21	1.20	1.20	1.20	1.20	1.20	1.20	1.20	1.20	1.20	1.20	1.20	1.19	1.19	1.18	1.18	1.17	1.17	1.17	1.18	1.18
	.83	.83	.82	.82	.83	.83	.84	.85	.86	.87	.87	.87	.86	.85	.85	.84	.84	.84	.84	.84	.85	.85	.85	.84
45-55S 12	13.20	13.41	13.45	13.32	13.05	12.68	12.33	12.04	11.87	11.85	11.95	12.13	12.32	12.43	12.44	12.35	12.19	12.01	11.88	11.85	11.95	12.19	12.52	12.88
	1.17	1.17	1.18	1.17	1.17	1.16	1.16	1.16	1.16	1.16	1.16	1.16	1.17	1.17	1.17	1.17	1.16	1.16	1.16	1.16	1.16	1.16	1.17	1.17
	.85	.85	.85	.85	.85	.85	.86	.86	.86	.86	.87	.87	.87	.87	.87	.86	.86	.86	.86	.86	.86	.86	.85	.85
55-65S 12	14.32	14.81	14.84	14.39	13.56	12.50	11.40	10.44	9.75	9.37	9.26	9.34	9.49	9.61	9.63	9.55	9.42	9.33	9.41	9.75	10.39	11.30	12.37	13.44
	1.17	1.18	1.18	1.18	1.17	1.16	1.15	1.14	1.13	1.12	1.12	1.11	1.11	1.11	1.11	1.11	1.11	1.11	1.11	1.12	1.13	1.14	1.15	1.16
	.81	.81	.81	.82	.84	.86	.87	.88	.89	.89	.89	.89	.88	.88	.88	.88	.89	.89	.88	.88	.87	.85	.84	.82

MONTH	00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23
55-65N 07	13.80	14.26	14.25	13.79	13.01	12.06	11.10	10.23	9.53	9.00	8.60	8.26	7.91	7.53	7.13	6.79	6.59	6.65	7.06	7.83	8.94	10.26	11.64	12.88
	1.16	1.17	1.17	1.17	1.17	1.16	1.15	1.14	1.13	1.12	1.11	1.11	1.10	1.10	1.09	1.09	1.08	1.08	1.09	1.10	1.11	1.12	1.13	1.15
	.81	.81	.81	.82	.84	.85	.87	.88	.89	.89	.89	.90	.90	.91	.91	.92	.93	.92	.92	.91	.89	.87	.85	.83
45-55N 07	13.98	14.01	13.82	13.43	12.93	12.39	11.84	11.33	10.89	10.49	10.12	9.77	9.44	9.18	9.00	8.97	9.12	9.49	10.06	10.79	11.61	12.43	13.15	13.68
	1.18	1.18	1.18	1.17	1.17	1.16	1.15	1.15	1.15	1.14	1.13	1.13	1.12	1.12	1.12	1.11	1.11	1.12	1.13	1.14	1.15	1.16	1.17	1.17
	.83	.83	.83	.84	.85	.86	.86	.87	.87	.88	.88	.88	.89	.89	.89	.90	.89	.89	.88	.87	.86	.85	.84	.83
35-45N 07	11.94	12.01	11.95	11.77	11.50	11.21	10.95	10.74	10.60	10.53	10.50	10.48	10.45	10.39	10.30	10.22	10.16	10.18	10.28	10.48	10.76	11.10	11.44	11.74
	1.16	1.16	1.16	1.15	1.15	1.15	1.14	1.14	1.15	1.15	1.15	1.15	1.15	1.15	1.15	1.14	1.14	1.14	1.14	1.14	1.15	1.15	1.15	1.16
	.86	.86	.86	.86	.87	.87	.88	.88	.88	.88	.89	.89	.90	.90	.91	.91	.91	.90	.90	.89	.88	.87	.87	.86
25-35N																								
15-25N 07	22.62	22.65	22.26	21.50	20.47	19.28	18.08	17.00	16.13	15.52	15.14	14.96	14.91	14.95	15.09	15.35	15.77	16.39	17.21	18.22	19.33	20.44	21.44	22.19
	1.33	1.33	1.32	1.31	1.29	1.28	1.26	1.24	1.23	1.22	1.22	1.21	1.20	1.19	1.19	1.18	1.18	1.19	1.21	1.23	1.25	1.28	1.30	1.32
	.77	.77	.78	.79	.80	.81	.82	.82	.83	.83	.83	.82	.82	.81	.80	.79	.79	.78	.78	.77	.77	.77	.77	.77
5-15N																								
5N-5S 01	22.25	24.84	26.52	26.95	26.00	23.80	20.70	17.22	13.91	11.22	9.41	8.53	8.42	8.78	9.30	9.74	10.00	10.13	10.34	10.87	11.97	13.78	16.27	19.21
	1.27	1.32	1.35	1.37	1.36	1.34	1.30	1.25	1.20	1.15	1.12	1.11	1.11	1.11	1.12	1.13	1.14	1.14	1.14	1.14	1.14	1.16	1.19	1.23
	.72	.70	.69	.70	.72	.75	.79	.83	.86	.89	.91	.91	.91	.91	.90	.90	.89	.89	.88	.87	.85	.82	.79	.76
5-15S 01	24.33	25.38	25.88	25.67	24.68	22.95	20.64	18.00	15.31	12.88	10.92	9.58	8.90	8.83	9.29	10.17	11.35	12.75	14.30	15.96	17.69	19.45	21.21	22.87
	1.35	1.37	1.39	1.39	1.37	1.34	1.30	1.26	1.21	1.17	1.14	1.12	1.11	1.11	1.11	1.12	1.14	1.15	1.17	1.19	1.22	1.25	1.28	1.32
	.72	.72	.73	.74	.75	.77	.79	.81	.83	.85	.87	.88	.88	.89	.88	.87	.86	.84	.82	.80	.77	.75	.74	.73
15-25S 01	16.67	16.24	16.04	16.10	16.36	16.74	17.12	17.44	17.63	17.68	17.62	17.53	17.48	17.54	17.74	18.08	18.50	18.90	19.19	19.25	19.06	18.61	17.98	17.29
	1.22	1.21	1.20	1.20	1.21	1.23	1.24	1.25	1.26	1.26	1.26	1.25	1.24	1.23	1.23	1.23	1.23	1.24	1.25	1.25	1.26	1.25	1.24	1.23
	.80	.79	.79	.79	.79	.80	.80	.81	.81	.81	.81	.80	.79	.78	.77	.76	.75	.75	.75	.76	.77	.78	.79	.79
25-35S 01	18.89	19.92	20.61	20.73	20.18	18.99	17.37	15.61	14.05	12.95	12.47	12.64	13.31	14.29	15.32	16.17	16.68	16.84	16.72	16.48	16.32	16.45	16.95	17.81
	1.27	1.28	1.30	1.30	1.29	1.28	1.25	1.22	1.20	1.18	1.16	1.16	1.17	1.18	1.19	1.21	1.22	1.22	1.22	1.22	1.22	1.22	1.23	1.25
	.78	.77	.77	.78	.79	.80	.82	.84	.85	.86	.86	.85	.84	.82	.81	.80	.80	.81	.81	.81	.82	.81	.80	.79
35-45S 01	16.59	16.85	16.82	16.47	15.84	15.05	14.21	13.50	13.00	12.80	12.88	13.18	13.58	13.97	14.26	14.42	14.44	14.40	14.36	14.44	14.67	15.06	15.58	16.12
	1.23	1.24	1.24	1.23	1.23	1.21	1.20	1.19	1.18	1.18	1.18	1.19	1.20	1.20	1.21	1.21	1.21	1.21	1.21	1.21	1.20	1.21	1.21	1.22
	.82	.82	.81	.82	.82	.83	.84	.85	.86	.86	.87	.87	.86	.86	.86	.86	.85	.85	.84	.84	.84	.83	.83	.82
45-55S 01	14.22	14.39	14.41	14.25	13.92	13.44	12.89	12.33	11.83	11.47	11.25	11.17	11.22	11.34	11.52	11.70	11.90	12.10	12.34	12.60	12.90	13.23	13.58	13.93
	1.19	1.19	1.20	1.19	1.19	1.18	1.17	1.17	1.16	1.16	1.16	1.16	1.16	1.16	1.16	1.16	1.16	1.16	1.17	1.17	1.18	1.18	1.18	1.19
	.83	.83	.83	.83	.84	.84	.85	.86	.86	.87	.87	.88	.88	.88	.87	.87	.87	.87	.86	.86	.85	.85	.84	.84
55-65S 01	16.55	17.03	16.99	16.45	15.54	14.42	13.29	12.31	11.55	11.03	10.72	10.52	10.34	10.14	9.89	9.66	9.52	9.58	9.94	10.64	11.68	12.97	14.34	15.60
	1.21	1.22	1.22	1.22	1.21	1.19	1.17	1.16	1.14	1.13	1.12	1.12	1.11	1.11	1.11	1.11	1.12	1.12	1.13	1.14	1.15	1.16	1.18	1.20
	.78	.78	.78	.79	.81	.82	.83	.84	.85	.85	.85	.85	.85	.85	.85	.86	.87	.87	.87	.87	.85	.83	.81	.80

MONTH	00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23
55-65N 08	15.53	15.73	15.38	14.57	13.46	12.28	11.20	10.35	9.75	9.39	9.15	8.94	8.67	8.30	7.89	7.53	7.37	7.54	8.13	9.14	10.50	12.03	13.53	14.76
	1.19	1.19	1.19	1.18	1.17	1.15	1.14	1.13	1.12	1.12	1.11	1.11	1.11	1.10	1.10	1.09	1.09	1.10	1.10	1.11	1.13	1.15	1.16	1.18
	.79	.79	.80	.81	.82	.84	.86	.87	.88	.88	.89	.89	.90	.90	.91	.91	.91	.91	.90	.89	.86	.85	.82	.80
45-55N 08	14.29	14.29	14.01	13.52	12.91	12.26	11.66	11.15	10.74	10.41	10.14	9.89	9.65	9.43	9.27	9.22	9.33	9.67	10.22	10.95	11.80	12.67	13.43	14.00
	1.18	1.18	1.18	1.17	1.16	1.16	1.15	1.15	1.14	1.14	1.13	1.13	1.13	1.12	1.12	1.12	1.12	1.13	1.13	1.14	1.15	1.16	1.17	1.18
	.82	.83	.83	.84	.85	.86	.86	.87	.87	.87	.87	.88	.88	.89	.89	.89	.89	.89	.88	.87	.86	.85	.84	.83
35-45N 08	11.56	11.61	11.55	11.40	11.19	10.96	10.74	10.58	10.48	10.43	10.41	10.39	10.36	10.30	10.22	10.15	10.10	10.12	10.22	10.40	10.64	10.92	11.19	11.42
	1.15	1.15	1.15	1.15	1.15	1.15	1.14	1.14	1.14	1.14	1.14	1.15	1.15	1.15	1.14	1.14	1.14	1.14	1.14	1.14	1.14	1.14	1.14	1.15
	.87	.87	.87	.87	.87	.87	.87	.88	.88	.89	.89	.89	.90	.90	.90	.90	.90	.89	.89	.88	.88	.87	.87	.87
25-35N																								
15-25N 08	23.79	23.80	23.38	22.54	21.35	19.94	18.46	17.08	15.91	15.06	14.53	14.30	14.32	14.54	14.95	15.51	16.25	17.15	18.20	19.35	20.54	21.67	22.65	23.38
	1.34	1.33	1.33	1.31	1.29	1.27	1.25	1.23	1.22	1.21	1.20	1.19	1.18	1.18	1.18	1.19	1.20	1.21	1.23	1.25	1.28	1.30	1.32	1.33
	.78	.78	.79	.80	.80	.81	.82	.83	.83	.84	.84	.84	.83	.83	.82	.80	.79	.78	.77	.77	.76	.76	.77	.77
5-15N																								
5N-5S 02	22.82	25.26	26.76	27.02	25.95	23.73	20.74	17.48	14.46	12.10	10.59	9.94	9.93	10.28	10.68	10.94	10.99	10.94	11.01	11.49	12.60	14.44	16.96	19.88
	1.27	1.30	1.33	1.34	1.33	1.31	1.27	1.23	1.20	1.17	1.15	1.14	1.14	1.15	1.16	1.16	1.16	1.16	1.15	1.15	1.16	1.18	1.20	1.24
	.70	.67	.66	.66	.69	.72	.76	.81	.84	.87	.89	.89	.89	.89	.88	.88	.88	.88	.88	.87	.85	.82	.78	.74
5-15S 02	21.73	23.21	24.13	24.32	23.70	22.28	20.23	17.78	15.22	12.83	10.86	9.42	8.57	8.25	8.38	8.85	9.58	10.50	11.60	12.90	14.40	16.12	17.99	19.92
	1.31	1.33	1.35	1.36	1.35	1.33	1.29	1.26	1.21	1.18	1.15	1.12	1.11	1.10	1.10	1.10	1.11	1.12	1.13	1.15	1.18	1.20	1.24	1.27
	.79	.78	.77	.77	.77	.78	.80	.82	.84	.86	.87	.88	.89	.89	.89	.88	.87	.87	.86	.85	.84	.83	.82	.81
15-25S 02	16.10	15.84	15.68	15.59	15.52	15.44	15.33	15.21	15.11	15.05	15.08	15.24	15.52	15.93	16.43	16.97	17.47	17.85	18.05	18.03	17.80	17.41	16.94	16.48
	1.24	1.23	1.22	1.22	1.21	1.21	1.21	1.21	1.21	1.21	1.21	1.21	1.21	1.22	1.23	1.24	1.25	1.26	1.27	1.27	1.27	1.27	1.26	1.25
	.83	.83	.83	.83	.83	.83	.84	.84	.85	.85	.84	.84	.83	.82	.81	.80	.80	.80	.80	.81	.82	.83	.83	.83
25-35S 02	16.34	16.79	16.96	16.75	16.14	15.20	14.08	12.98	12.09	11.57	11.48	11.77	12.34	13.04	13.70	14.21	14.50	14.60	14.57	14.53	14.58	14.80	15.21	15.76
	1.22	1.23	1.23	1.23	1.23	1.21	1.20	1.18	1.17	1.16	1.16	1.16	1.17	1.18	1.18	1.19	1.20	1.20	1.20	1.20	1.20	1.20	1.20	1.21
	.82	.82	.82	.82	.83	.84	.85	.86	.86	.87	.86	.86	.85	.84	.83	.83	.83	.83	.83	.83	.84	.84	.84	.83
35-45S 02	13.89	14.11	14.25	14.22	14.02	13.66	13.22	12.78	12.45	12.26	12.27	12.45	12.74	13.05	13.33	13.51	13.56	13.52	13.42	13.31	13.26	13.28	13.42	13.63
	1.18	1.18	1.18	1.19	1.18	1.18	1.18	1.17	1.17	1.17	1.17	1.18	1.18	1.19	1.19	1.20	1.20	1.19	1.19	1.19	1.18	1.18	1.18	1.18
	.83	.83	.83	.83	.84	.85	.85	.86	.87	.87	.87	.87	.87	.87	.87	.87	.87	.87	.86	.86	.85	.84	.84	.83
45-55S 02	13.35	13.53	13.55	13.38	13.02	12.53	11.96	11.40	10.91	10.57	10.38	10.33	10.40	10.53	10.69	10.86	11.02	11.19	11.40	11.65	11.96	12.32	12.70	13.06
	1.17	1.18	1.18	1.17	1.17	1.16	1.16	1.14	1.14	1.13	1.13	1.13	1.13	1.14	1.15	1.15	1.15	1.15	1.15	1.15	1.16	1.16	1.17	1.17
	.84	.84	.84	.84	.84	.85	.85	.86	.87	.87	.88	.88	.88	.88	.88	.88	.88	.87	.87	.87	.86	.86	.85	.85
55-65S 02	16.03	16.42	16.30	15.72	14.77	13.61	12.41	11.31	10.43	9.79	9.37	9.11	8.94	8.80	8.67	8.60	8.66	8.93	9.48	10.34	11.46	12.74	14.05	15.20
	1.18	1.19	1.19	1.19	1.18	1.17	1.16	1.15	1.13	1.12	1.11	1.10	1.10	1.10	1.10	1.10	1.11	1.11	1.12	1.13	1.14	1.15	1.16	1.17
	.79	.78	.79	.80	.82	.83	.85	.86	.87	.88	.88	.88	.88	.88	.88	.89	.89	.90	.90	.89	.88	.86	.84	.82

MONTH	00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23
55-65N 09	17.35	17.33	16.94	16.30	15.51	14.68	13.89	13.17	12.52	11.91	11.29	10.67	10.04	9.48	9.07	8.94	9.17	9.81	10.83	12.15	13.58	14.97	16.14	16.96
	1.21	1.21	1.21	1.20	1.19	1.18	1.17	1.17	1.16	1.15	1.14	1.13	1.12	1.11	1.11	1.11	1.11	1.12	1.13	1.16	1.17	1.19	1.21	1.21
	.78	.77	.78	.79	.80	.81	.82	.84	.84	.85	.86	.87	.87	.88	.89	.89	.89	.88	.87	.85	.83	.81	.79	.78
45-55N 09	15.37	14.99	14.55	14.11	13.72	13.41	13.12	12.83	12.49	12.07	11.57	11.03	10.54	10.19	10.09	10.29	10.82	11.64	12.62	13.64	14.53	15.20	15.55	15.59
	1.20	1.19	1.18	1.18	1.17	1.17	1.16	1.15	1.15	1.14	1.13	1.12	1.12	1.12	1.12	1.12	1.13	1.15	1.16	1.18	1.19	1.20	1.20	1.20
	.82	.82	.82	.82	.83	.83	.84	.84	.84	.85	.85	.86	.87	.87	.88	.88	.87	.87	.85	.84	.83	.82	.82	.81
35-45N 09	13.56	13.31	12.99	12.64	12.30	12.00	11.71	11.43	11.14	10.81	10.47	10.12	9.82	9.61	9.56	9.72	10.11	10.68	11.39	12.13	12.79	13.30	13.60	13.68
	1.19	1.19	1.18	1.18	1.17	1.17	1.16	1.16	1.15	1.15	1.14	1.14	1.13	1.13	1.13	1.13	1.14	1.15	1.15	1.16	1.17	1.18	1.19	1.19
	.85	.85	.86	.86	.86	.87	.87	.87	.87	.88	.88	.89	.90	.90	.91	.90	.90	.89	.88	.86	.85	.85	.85	.85
25-35N																								
15-25N 09	24.29	24.16	23.69	22.86	21.67	20.18	18.53	16.85	15.31	14.06	13.19	12.76	12.78	13.23	14.06	15.22	16.60	18.10	19.59	20.97	22.14	23.07	23.73	24.14
	1.34	1.34	1.34	1.33	1.32	1.30	1.27	1.25	1.22	1.20	1.18	1.17	1.17	1.17	1.19	1.20	1.22	1.24	1.26	1.28	1.30	1.31	1.32	1.33
	.79	.80	.80	.81	.81	.81	.82	.83	.83	.84	.85	.85	.84	.84	.83	.81	.80	.79	.78	.77	.77	.77	.78	.79
5-15N																								
5N-5S 03	18.03	20.06	21.55	22.20	21.87	20.61	18.64	16.32	14.04	12.12	10.76	10.03	9.82	9.95	10.21	10.41	10.48	10.44	10.41	10.57	11.11	12.17	13.77	15.80
	1.24	1.27	1.29	1.30	1.30	1.28	1.26	1.23	1.20	1.17	1.15	1.14	1.14	1.14	1.14	1.14	1.14	1.14	1.14	1.14	1.15	1.16	1.18	1.21
	.79	.77	.75	.74	.74	.76	.78	.81	.84	.86	.88	.89	.89	.89	.88	.88	.88	.88	.87	.87	.86	.85	.84	.81
5-15S 03	27.08	28.67	29.31	28.78	27.07	24.36	21.02	17.52	14.30	11.73	10.02	9.20	9.14	9.64	10.48	11.47	12.51	13.60	14.80	16.22	17.96	20.05	22.42	24.86
	1.37	1.40	1.42	1.42	1.40	1.36	1.31	1.25	1.20	1.16	1.13	1.11	1.11	1.11	1.12	1.14	1.15	1.17	1.19	1.21	1.23	1.26	1.30	1.34
	.69	.69	.69	.70	.72	.75	.78	.81	.84	.87	.89	.89	.89	.89	.88	.86	.84	.83	.81	.79	.77	.75	.73	.71
15-25S 03	20.62	20.16	19.55	18.80	17.92	16.96	16.00	15.13	14.45	14.04	13.93	14.11	14.55	15.20	16.02	16.93	17.89	18.82	19.65	20.33	20.80	21.06	21.09	20.94
	1.27	1.26	1.26	1.25	1.24	1.24	1.23	1.22	1.21	1.21	1.21	1.21	1.21	1.22	1.23	1.25	1.26	1.28	1.29	1.29	1.29	1.29	1.28	1.28
	.79	.79	.80	.80	.82	.83	.84	.85	.85	.86	.85	.85	.84	.83	.83	.82	.81	.80	.79	.79	.79	.78	.78	.78
25-35S 03	14.42	14.42	14.33	14.15	13.88	13.54	13.16	12.80	12.48	12.23	12.08	12.01	12.03	12.10	12.23	12.41	12.63	12.88	13.17	13.46	13.74	13.99	14.19	14.34
	1.20	1.20	1.20	1.20	1.19	1.18	1.18	1.17	1.16	1.15	1.15	1.15	1.15	1.15	1.15	1.15	1.16	1.16	1.17	1.18	1.18	1.19	1.19	1.20
	.84	.84	.84	.85	.85	.85	.85	.85	.85	.85	.85	.85	.85	.85	.85	.84	.84	.84	.84	.84	.84	.84	.84	.84
35-45S 03	12.51	12.38	12.33	12.35	12.42	12.51	12.58	12.61	12.60	12.55	12.46	12.38	12.33	12.33	12.39	12.51	12.68	12.86	13.03	13.12	13.13	13.04	12.89	12.69
	1.17	1.17	1.17	1.17	1.17	1.17	1.16	1.17	1.17	1.16	1.17	1.17	1.17	1.17	1.18	1.18	1.18	1.18	1.18	1.18	1.17	1.17	1.17	1.17
	.87	.87	.87	.87	.86	.86	.86	.86	.85	.85	.85	.86	.86	.86	.86	.86	.86	.86	.86	.86	.86	.86	.87	.87
45-55S 03	13.44	13.64	13.78	13.82	13.74	13.52	13.20	12.82	12.44	12.11	11.85	11.71	11.66	11.69	11.75	11.85	11.96	12.08	12.21	12.37	12.55	12.75	12.97	13.20
	1.16	1.17	1.17	1.17	1.18	1.17	1.17	1.16	1.16	1.16	1.15	1.15	1.15	1.15	1.16	1.16	1.16	1.16	1.16	1.16	1.16	1.16	1.16	1.16
	.83	.83	.83	.83	.83	.83	.84	.84	.85	.85	.86	.86	.86	.87	.87	.87	.87	.86	.85	.85	.84	.84	.83	.83
55-65S 03	17.17	17.54	17.47	17.01	16.25	15.32	14.38	13.56	12.92	12.48	12.20	12.02	11.84	11.63	11.38	11.14	11.01	11.09	11.45	12.12	13.08	14.21	15.38	16.42
	1.19	1.20	1.20	1.20	1.19	1.18	1.18	1.17	1.16	1.16	1.16	1.16	1.16	1.16	1.15	1.15	1.15	1.15	1.15	1.16	1.16	1.17	1.18	1.19
	.76	.75	.75	.76	.78	.80	.81	.83	.84	.84	.85	.85	.85	.86	.87	.87	.88	.88	.87	.86	.84	.82	.79	.77

MONTH	00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23	
55-65N	10	16.44	16.19	15.91	15.65	15.42	15.18	14.89	14.50	13.99	13.36	12.65	11.94	11.33	10.92	10.80	11.05	11.64	12.52	13.56	14.61	15.51	16.16	16.51	16.58
		1.22	1.21	1.21	1.20	1.20	1.19	1.19	1.18	1.17	1.16	1.15	1.14	1.14	1.14	1.13	1.14	1.15	1.17	1.18	1.20	1.21	1.22	1.22	1.22
		.81	.81	.81	.81	.82	.82	.82	.83	.84	.84	.85	.86	.87	.87	.87	.86	.86	.85	.84	.83	.82	.81	.81	.81
45-55N	10	15.23	15.10	14.98	14.86	14.72	14.50	14.18	13.76	13.27	12.76	12.28	11.92	11.72	11.73	11.96	12.40	12.98	13.64	14.28	14.83	15.21	15.41	15.44	15.36
		1.19	1.19	1.18	1.19	1.19	1.19	1.18	1.18	1.17	1.16	1.15	1.15	1.15	1.15	1.15	1.16	1.17	1.18	1.20	1.20	1.20	1.21	1.20	1.20
		.82	.82	.82	.82	.82	.82	.83	.83	.84	.85	.86	.86	.87	.87	.86	.86	.86	.85	.85	.84	.83	.83	.82	.82
35-45N	10	12.77	12.51	12.41	12.42	12.47	12.47	12.34	12.05	11.62	11.09	10.58	10.18	10.01	10.13	10.55	11.22	12.04	12.87	13.56	14.00	14.13	13.97	13.60	13.17
		1.18	1.18	1.18	1.18	1.18	1.17	1.17	1.17	1.16	1.15	1.15	1.14	1.14	1.14	1.15	1.16	1.17	1.18	1.19	1.20	1.20	1.20	1.20	1.19
		.87	.88	.87	.87	.87	.87	.87	.87	.87	.88	.88	.89	.89	.89	.88	.88	.86	.86	.85	.85	.85	.85	.86	.87
25-35N																									
15-25N	10	20.97	20.93	20.60	19.91	18.84	17.47	15.96	14.53	13.38	12.67	12.50	12.85	13.67	14.79	16.06	17.31	18.41	19.26	19.85	20.21	20.42	20.56	20.71	20.86
		1.29	1.29	1.29	1.28	1.27	1.25	1.22	1.20	1.18	1.16	1.15	1.15	1.17	1.18	1.20	1.23	1.25	1.27	1.28	1.28	1.29	1.29	1.29	1.29
		.80	.80	.80	.80	.81	.82	.83	.84	.85	.85	.85	.84	.83	.81	.80	.79	.79	.79	.79	.80	.80	.80	.80	.80
5-15N																									
5N-5S	04	16.87	19.58	21.81	23.12	23.23	22.15	20.14	17.65	15.21	13.28	12.11	11.75	11.99	12.53	13.01	13.16	12.85	12.15	11.26	10.52	10.24	10.71	12.05	14.19
		1.23	1.28	1.32	1.34	1.35	1.33	1.30	1.26	1.22	1.19	1.17	1.16	1.17	1.18	1.19	1.19	1.19	1.17	1.15	1.14	1.13	1.13	1.15	1.18
		.80	.79	.77	.77	.77	.78	.80	.82	.84	.85	.86	.87	.87	.87	.87	.87	.87	.87	.87	.86	.86	.85	.84	.82
5-15S	04	29.60	29.91	29.05	27.11	24.30	20.99	17.57	14.46	11.94	10.17	9.16	8.79	8.92	9.39	10.11	11.04	12.24	13.78	15.72	18.06	20.70	23.47	26.09	28.24
		1.43	1.46	1.47	1.45	1.41	1.35	1.28	1.22	1.16	1.12	1.10	1.10	1.11	1.12	1.14	1.15	1.16	1.17	1.19	1.21	1.25	1.29	1.34	1.39
		.69	.71	.74	.77	.80	.82	.84	.85	.86	.87	.87	.88	.88	.88	.87	.86	.83	.81	.78	.74	.71	.69	.68	.68
15-25S	04	17.74	17.85	17.86	17.68	17.27	16.64	15.89	15.16	14.59	14.32	14.39	14.80	15.45	16.22	16.97	17.59	18.00	18.18	18.17	18.02	17.82	17.66	17.59	17.62
		1.24	1.25	1.25	1.26	1.25	1.24	1.23	1.22	1.21	1.20	1.21	1.22	1.23	1.24	1.25	1.26	1.26	1.26	1.26	1.25	1.24	1.24	1.23	1.23
		.82	.82	.83	.83	.83	.83	.83	.84	.84	.84	.84	.83	.83	.83	.82	.82	.82	.81	.81	.81	.82	.82	.82	.82
25-35S	04	15.09	14.76	14.37	13.93	13.43	12.87	12.28	11.72	11.24	10.91	10.77	10.83	11.09	11.53	12.10	12.77	13.47	14.16	14.76	15.23	15.52	15.62	15.56	15.37
		1.20	1.19	1.19	1.18	1.18	1.17	1.16	1.15	1.15	1.14	1.14	1.14	1.14	1.15	1.16	1.17	1.18	1.19	1.20	1.21	1.21	1.21	1.21	1.20
		.84	.84	.84	.84	.85	.85	.86	.87	.87	.87	.87	.86	.86	.85	.85	.84	.84	.84	.84	.84	.84	.84	.84	.84
35-45S	04	12.76	12.62	12.61	12.68	12.71	12.64	12.41	12.03	11.57	11.12	10.79	10.68	10.82	11.24	11.87	12.61	13.35	13.97	14.36	14.48	14.32	13.96	13.51	13.08
		1.17	1.16	1.16	1.16	1.16	1.16	1.16	1.16	1.16	1.15	1.15	1.15	1.15	1.15	1.16	1.17	1.19	1.20	1.21	1.21	1.21	1.20	1.19	1.18
		.86	.86	.86	.85	.85	.85	.86	.86	.86	.87	.87	.88	.88	.88	.87	.87	.86	.85	.85	.85	.85	.86	.86	.86
45-55S	04	13.15	12.93	12.83	12.80	12.76	12.65	12.39	12.00	11.50	11.00	10.58	10.34	10.36	10.66	11.21	11.94	12.72	13.45	14.02	14.33	14.38	14.19	13.86	13.49
		1.17	1.16	1.16	1.16	1.16	1.16	1.16	1.16	1.15	1.14	1.13	1.13	1.13	1.13	1.13	1.15	1.16	1.17	1.19	1.19	1.19	1.19	1.18	1.17
		.85	.86	.86	.85	.85	.86	.86	.86	.86	.87	.88	.88	.88	.88	.87	.86	.85	.85	.84	.84	.83	.84	.84	.85
55-65S	04	19.14	19.60	19.83	19.74	19.23	18.28	16.95	15.34	13.65	12.06	10.75	9.86	9.45	9.52	10.03	10.87	11.92	13.08	14.23	15.30	16.26	17.11	17.87	18.54
		1.24	1.25	1.26	1.26	1.26	1.24	1.23	1.20	1.17	1.15	1.12	1.11	1.10	1.10	1.11	1.12	1.14	1.16	1.18	1.19	1.21	1.22	1.23	1.24
		.76	.76	.76	.76	.77	.79	.80	.82	.84	.86	.87	.88	.89	.89	.88	.87	.86	.84	.83	.81	.80	.78	.77	.77

MONTH	00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23	
55-65N	11	17.46	17.61	17.93	18.28	18.47	18.33	17.76	16.75	15.39	13.90	12.52	11.51	11.06	11.25	12.04	13.28	14.72	16.10	17.19	17.87	18.11	18.02	17.77	17.54
		1.23	1.23	1.24	1.24	1.24	1.24	1.22	1.20	1.18	1.16	1.14	1.14	1.14	1.16	1.17	1.20	1.22	1.24	1.25	1.25	1.25	1.24	1.23	
		.80	.79	.79	.78	.78	.78	.79	.80	.81	.83	.85	.86	.86	.86	.86	.85	.83	.82	.81	.81	.80	.80	.80	.80
45-55N	11	17.08	17.00	16.94	16.79	16.48	15.92	15.09	14.05	12.90	11.81	10.95	10.48	10.49	10.99	11.91	13.11	14.41	15.62	16.58	17.20	17.50	17.52	17.39	17.22
		1.23	1.23	1.22	1.23	1.22	1.21	1.20	1.19	1.17	1.16	1.15	1.14	1.14	1.14	1.16	1.18	1.19	1.21	1.23	1.24	1.24	1.24	1.24	1.24
		.81	.82	.81	.81	.80	.81	.82	.83	.85	.86	.88	.88	.89	.88	.88	.87	.85	.84	.83	.83	.82	.82	.82	.82
35-45N	11	12.81	12.72	12.83	13.07	13.34	13.52	13.52	13.29	12.85	12.29	11.70	11.23	10.99	11.04	11.38	11.97	12.68	13.36	13.88	14.15	14.14	13.88	13.48	13.09
		1.18	1.18	1.18	1.18	1.19	1.19	1.18	1.18	1.17	1.17	1.16	1.16	1.15	1.15	1.16	1.17	1.18	1.19	1.20	1.20	1.20	1.19	1.19	1.18
		.87	.87	.87	.86	.85	.85	.85	.85	.86	.87	.88	.88	.88	.88	.88	.87	.86	.85	.85	.85	.85	.86	.86	.87
25-35N																									
15-25N	11	22.74	23.55	24.06	23.96	23.06	21.38	19.16	16.80	14.78	13.50	13.23	14.02	15.68	17.87	20.14	22.07	23.37	23.90	23.74	23.11	22.35	21.78	21.64	22.00
		1.33	1.34	1.36	1.36	1.35	1.33	1.29	1.25	1.21	1.19	1.17	1.18	1.21	1.24	1.28	1.32	1.35	1.36	1.36	1.34	1.33	1.32	1.31	1.31
		.78	.77	.78	.79	.80	.82	.84	.85	.86	.85	.84	.82	.80	.79	.78	.78	.79	.80	.80	.81	.81	.81	.80	.79
5-15N																									
5N-5S	05	0.00	0.00	0.00	0.00	28.10	28.57	6.92	6.74	7.00	9.24	10.96	12.32	11.86	13.00	12.94	12.48	12.22	11.64	10.96	10.42	11.22	12.92	16.20	0.00
		0.00	0.00	0.00	0.00	1.44	1.32	1.10	1.10	1.08	1.08	1.13	1.17	1.18	1.19	1.18	1.17	1.16	1.17	1.13	1.10	1.13	1.16	1.16	0.00
		0.00	0.00	0.00	0.00	.62	.69	.91	.91	.89	.85	.85	.85	.88	.88	.86	.84	.83	.86	.84	.84	.84	.83	.75	0.00
5-15S	05	35.67	35.62	34.20	31.56	28.07	24.25	20.65	17.73	15.80	14.92	14.93	15.54	16.41	17.24	17.92	18.48	19.11	20.06	21.56	23.68	26.35	29.30	32.14	34.40
		1.56	1.57	1.55	1.51	1.45	1.39	1.32	1.27	1.23	1.21	1.20	1.21	1.22	1.23	1.23	1.24	1.25	1.26	1.29	1.33	1.38	1.43	1.49	1.53
		.68	.69	.71	.73	.76	.78	.80	.82	.83	.83	.82	.81	.79	.78	.77	.76	.76	.75	.74	.73	.72	.70	.69	.69
15-25S	05	15.20	15.12	15.10	15.12	15.19	15.28	15.42	15.61	15.87	16.20	16.59	16.98	17.34	17.60	17.73	17.70	17.54	17.27	16.92	16.55	16.18	15.85	15.57	15.35
		1.19	1.19	1.19	1.19	1.19	1.19	1.20	1.21	1.22	1.23	1.25	1.26	1.27	1.27	1.27	1.27	1.26	1.25	1.23	1.22	1.21	1.20	1.19	1.19
		.85	.86	.86	.85	.85	.84	.84	.84	.84	.84	.85	.86	.86	.87	.87	.86	.86	.85	.85	.84	.84	.84	.85	.85
25-35S	05	13.58	13.61	13.60	13.50	13.25	12.85	12.33	11.79	11.32	11.01	10.92	11.07	11.45	11.98	12.59	13.18	13.67	14.01	14.16	14.15	14.02	13.85	13.69	13.60
		1.18	1.18	1.19	1.19	1.19	1.18	1.18	1.17	1.16	1.16	1.16	1.16	1.16	1.17	1.17	1.18	1.19	1.19	1.19	1.19	1.18	1.18	1.18	1.18
		.86	.86	.86	.86	.87	.87	.87	.88	.88	.89	.89	.89	.89	.88	.88	.87	.87	.86	.86	.86	.86	.86	.86	.86
35-45S	05	13.10	13.46	13.88	14.23	14.34	14.16	13.64	12.86	11.95	11.09	10.44	10.12	10.16	10.55	11.16	11.86	12.52	13.01	13.28	13.33	13.20	13.02	12.89	12.90
		1.17	1.18	1.19	1.19	1.19	1.19	1.18	1.17	1.16	1.15	1.15	1.15	1.15	1.15	1.16	1.17	1.18	1.18	1.19	1.19	1.18	1.18	1.17	1.17
		.86	.86	.85	.85	.85	.86	.86	.87	.88	.89	.89	.90	.89	.89	.88	.88	.88	.88	.87	.86	.87	.87	.86	.86
45-55S	05	15.65	15.84	15.93	15.85	15.53	14.94	14.11	13.12	12.09	11.16	10.46	10.08	10.05	10.33	10.86	11.56	12.32	13.05	13.69	14.22	14.63	14.94	15.19	15.42
		1.20	1.19	1.20	1.19	1.19	1.18	1.17	1.16	1.15	1.14	1.13	1.13	1.13	1.14	1.15	1.15	1.16	1.17	1.18	1.19	1.19	1.19	1.20	1.19
		.83	.82	.82	.82	.82	.82	.83	.84	.86	.87	.88	.89	.89	.89	.88	.88	.87	.86	.85	.84	.84	.83	.83	.83
55-65S	05	21.20	22.07	22.67	22.82	22.39	21.31	19.66	17.59	15.38	13.30	11.60	10.47	9.98	10.10	10.73	11.70	12.86	14.07	15.22	16.29	17.28	18.23	19.20	20.20
		1.30	1.31	1.33	1.33	1.32	1.31	1.28	1.25	1.21	1.17	1.14	1.12	1.11	1.11	1.12	1.13	1.15	1.17	1.19	1.21	1.23	1.25	1.26	1.28
		.77	.77	.76	.76	.77	.78	.79	.81	.83	.85	.86	.87	.87	.87	.86	.85	.84	.84	.83	.82	.81	.80	.80	.79

MONTH	00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23
55-65N 12	17.48	17.92	18.32	18.52	18.44	17.95	17.06	15.83	14.39	12.94	11.67	10.77	10.34	10.39	10.88	11.69	12.66	13.65	14.54	15.27	15.84	16.27	16.65	17.04
	1.22	1.23	1.24	1.25	1.26	1.25	1.24	1.22	1.21	1.18	1.16	1.14	1.13	1.14	1.14	1.15	1.17	1.18	1.18	1.19	1.19	1.20	1.20	1.21
	.80	.79	.79	.80	.80	.81	.82	.84	.85	.86	.87	.88	.88	.88	.88	.87	.86	.85	.84	.83	.82	.81	.80	.80
45-55N 12	16.86	17.00	17.13	17.17	17.01	16.55	15.76	14.67	13.38	12.07	10.92	10.12	9.78	9.95	10.59	11.59	12.76	13.94	14.98	15.77	16.28	16.56	16.69	16.77
	1.23	1.23	1.23	1.23	1.22	1.22	1.21	1.20	1.18	1.16	1.15	1.14	1.14	1.14	1.15	1.16	1.18	1.19	1.21	1.22	1.23	1.23	1.23	1.23
	.82	.81	.81	.80	.80	.81	.82	.83	.85	.86	.88	.89	.89	.89	.88	.88	.87	.86	.85	.84	.84	.83	.83	.82
35-45N 12	12.61	12.78	13.20	13.78	14.33	14.71	14.77	14.44	13.75	12.82	11.83	10.96	10.40	10.24	10.49	11.08	11.84	12.61	13.21	13.54	13.55	13.33	12.99	12.71
	1.17	1.18	1.18	1.19	1.19	1.20	1.20	1.19	1.19	1.18	1.16	1.16	1.15	1.14	1.15	1.15	1.16	1.17	1.18	1.18	1.19	1.18	1.18	1.18
	.87	.87	.86	.85	.84	.83	.83	.84	.85	.86	.88	.88	.89	.89	.89	.88	.87	.86	.86	.85	.85	.86	.86	.87
25-35N																								
15-25N 12	24.91	26.14	26.58	26.06	24.63	22.56	20.31	18.34	17.09	16.76	17.37	18.66	20.23	21.63	22.50	22.64	22.12	21.16	20.16	19.49	19.45	20.15	21.49	23.20
	1.37	1.39	1.39	1.38	1.36	1.33	1.29	1.26	1.24	1.24	1.26	1.29	1.32	1.35	1.37	1.38	1.37	1.35	1.32	1.30	1.29	1.30	1.32	1.34
	.76	.76	.76	.77	.79	.80	.82	.82	.83	.82	.81	.80	.79	.79	.79	.80	.81	.82	.82	.82	.81	.80	.78	.77
5-15N																								
5N-5S 06	0.00	0.00	0.00	0.00	0.00	0.00	8.57	6.14	6.73	8.10	9.99	12.40	12.93	12.29	11.86	10.50	9.59	9.49	9.60	11.10	13.23	16.51	24.06	0.00
	0.00	0.00	0.00	0.00	0.00	0.00	1.09	1.07	1.08	1.10	1.10	1.15	1.15	1.14	1.14	1.13	1.12	1.13	1.11	1.12	1.15	1.17	1.29	0.00
	0.00	0.00	0.00	0.00	0.00	0.00	.89	.92	.90	.88	.86	.83	.81	.82	.83	.85	.87	.90	.86	.83	.82	.76	.67	0.00
5-15S 06	33.28	32.08	29.78	26.69	23.25	19.93	17.13	15.12	13.98	13.63	13.86	14.41	15.03	15.62	16.18	16.85	17.86	19.39	21.51	24.14	27.02	29.78	31.97	33.22
	1.50	1.48	1.45	1.40	1.35	1.30	1.25	1.22	1.20	1.20	1.20	1.21	1.22	1.23	1.24	1.25	1.27	1.29	1.32	1.36	1.40	1.44	1.48	1.50
	.72	.74	.76	.79	.82	.84	.86	.87	.87	.86	.86	.85	.84	.83	.83	.82	.81	.80	.78	.76	.74	.73	.72	.71
15-25S 06	13.33	12.89	12.68	12.62	12.64	12.65	12.60	12.48	12.35	12.28	12.33	12.59	13.06	13.73	14.53	15.36	16.09	16.60	16.82	16.70	16.26	15.57	14.76	13.97
	1.18	1.17	1.16	1.16	1.16	1.16	1.16	1.16	1.17	1.18	1.18	1.19	1.20	1.21	1.22	1.23	1.24	1.25	1.25	1.25	1.24	1.23	1.21	1.20
	.87	.87	.87	.87	.86	.86	.86	.86	.87	.87	.88	.88	.88	.87	.87	.85	.84	.84	.83	.84	.84	.85	.86	.87
25-35S 06	12.86	13.24	13.66	13.99	14.08	13.84	13.26	12.40	11.43	10.50	9.79	9.41	9.43	9.82	10.48	11.27	12.03	12.64	12.99	13.09	12.98	12.79	12.64	12.65
	1.17	1.17	1.18	1.18	1.18	1.18	1.17	1.17	1.15	1.14	1.14	1.13	1.13	1.13	1.14	1.15	1.16	1.17	1.17	1.18	1.18	1.17	1.17	1.17
	.86	.85	.85	.85	.85	.85	.86	.87	.88	.89	.90	.91	.91	.90	.90	.89	.88	.87	.87	.87	.86	.86	.86	.86
35-45S 06	14.36	14.75	15.19	15.53	15.63	15.36	14.67	13.62	12.34	11.03	9.91	9.14	8.84	9.02	9.61	10.47	11.42	12.31	13.02	13.50	13.76	13.88	13.95	14.09
	1.19	1.19	1.20	1.20	1.20	1.19	1.18	1.17	1.15	1.14	1.13	1.12	1.13	1.14	1.15	1.16	1.17	1.18	1.19	1.19	1.19	1.19	1.19	1.19
	.83	.82	.82	.81	.81	.82	.83	.85	.87	.88	.89	.91	.91	.91	.90	.89	.88	.88	.87	.86	.86	.85	.85	.84
45-55S 06	15.47	15.45	15.40	15.24	14.90	14.32	13.49	12.47	11.35	10.28	9.41	8.87	8.71	8.97	9.59	10.49	11.53	12.60	13.56	14.33	14.89	15.23	15.39	15.45
	1.21	1.21	1.20	1.20	1.19	1.19	1.18	1.16	1.15	1.14	1.12	1.12	1.11	1.12	1.13	1.14	1.15	1.17	1.18	1.20	1.21	1.21	1.21	1.21
	.83	.83	.83	.83	.83	.83	.84	.86	.87	.88	.89	.90	.90	.90	.89	.88	.88	.87	.86	.85	.84	.84	.83	.83
55-65S 06	20.39	21.45	22.02	21.98	21.26	19.91	18.09	16.00	13.91	12.04	10.59	9.63	9.18	9.17	9.50	10.05	10.75	11.56	12.47	13.51	14.70	16.05	17.52	19.01
	1.30	1.32	1.33	1.33	1.32	1.29	1.26	1.23	1.19	1.16	1.13	1.11	1.11	1.11	1.11	1.12	1.13	1.14	1.16	1.17	1.19	1.22	1.24	1.27
	.81	.80	.78	.78	.78	.79	.81	.83	.85	.87	.88	.88	.88	.88	.88	.87	.87	.87	.87	.86	.86	.85	.84	.83

\*\*\*\*\* QUIET MAGNETIC -- SOLAR RANGE 41 - 109 \*\*\*\*\*

MONTH	00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23
55-65N 01	19.21	19.78	20.44	20.95	21.09	20.68	19.65	18.08	16.17	14.22	12.56	11.44	11.05	11.42	12.45	13.89	15.47	16.91	17.99	18.62	18.86	18.84	18.78	18.87
	1.26	1.27	1.28	1.29	1.30	1.30	1.28	1.26	1.24	1.21	1.17	1.15	1.14	1.15	1.16	1.19	1.21	1.24	1.26	1.27	1.28	1.28	1.27	1.26
	.81	.81	.80	.80	.80	.81	.82	.83	.84	.86	.87	.87	.87	.87	.86	.85	.83	.82	.82	.82	.82	.81	.81	.81
45-55N 01	18.69	18.42	18.11	17.76	17.29	16.65	15.82	14.82	13.71	12.62	11.68	11.03	10.79	11.00	11.67	12.72	14.02	15.41	16.70	17.76	18.50	18.91	19.01	18.91
	1.25	1.24	1.24	1.23	1.23	1.22	1.21	1.20	1.18	1.17	1.16	1.15	1.15	1.15	1.16	1.18	1.20	1.22	1.24	1.25	1.26	1.26	1.26	1.26
	.80	.80	.79	.79	.80	.81	.82	.83	.85	.86	.87	.88	.88	.88	.88	.87	.86	.85	.84	.83	.82	.81	.81	.81
35-45N 01	14.71	14.68	14.95	15.42	15.89	16.15	16.03	15.47	14.50	13.29	12.06	11.06	10.52	10.54	11.13	12.19	13.49	14.76	15.78	16.36	16.46	16.15	15.62	15.07
	1.21	1.21	1.21	1.22	1.23	1.22	1.23	1.21	1.20	1.19	1.16	1.15	1.14	1.14	1.15	1.17	1.19	1.20	1.22	1.23	1.23	1.23	1.23	1.22
	.86	.86	.85	.85	.84	.84	.84	.84	.85	.86	.87	.88	.88	.88	.87	.86	.85	.84	.83	.83	.83	.84	.85	.86
25-35N																								
15-25N 01	31.90	32.45	32.38	31.46	29.62	26.97	23.79	20.48	17.48	15.18	13.83	13.52	14.18	15.62	17.57	19.73	21.86	23.78	25.39	26.71	27.84	28.89	29.93	30.97
	1.46	1.47	1.46	1.45	1.42	1.38	1.33	1.28	1.23	1.20	1.17	1.17	1.18	1.20	1.24	1.28	1.32	1.36	1.39	1.41	1.43	1.44	1.45	1.46
	.74	.74	.75	.75	.77	.79	.81	.82	.84	.84	.84	.83	.81	.79	.78	.77	.76	.76	.76	.76	.76	.76	.75	.75
5-15N																								
5N-5S 07	0.00	26.50	22.25	25.54	27.27	31.88	11.93	6.82	7.17	9.25	12.23	14.38	13.60	13.57	13.02	11.85	10.62	10.10	10.17	12.87	15.45	13.10	0.00	0.00
	0.00	1.55	1.35	1.32	1.35	1.45	1.16	1.07	1.09	1.10	1.14	1.19	1.20	1.20	1.18	1.14	1.15	1.15	1.14	1.15	1.17	1.16	0.00	0.00
	0.00	.82	.76	.68	.67	.64	.88	.90	.90	.86	.81	.83	.85	.85	.85	.85	.88	.89	.88	.82	.80	.79	0.00	0.00
5-15S 07	30.16	31.04	30.80	29.44	27.13	24.19	21.01	17.98	15.44	13.56	12.41	11.87	11.79	11.99	12.33	12.80	13.46	14.44	15.88	17.84	20.28	23.04	25.83	28.32
	1.43	1.44	1.44	1.42	1.39	1.35	1.30	1.25	1.20	1.17	1.14	1.13	1.12	1.12	1.13	1.14	1.15	1.17	1.20	1.23	1.27	1.31	1.36	1.40
	.66	.66	.67	.68	.71	.74	.77	.80	.82	.83	.83	.83	.82	.82	.81	.81	.81	.80	.79	.78	.75	.73	.70	.68
15-25S 07	18.81	18.56	18.06	17.35	16.50	15.62	14.81	14.15	13.70	13.50	13.51	13.70	14.01	14.37	14.74	15.13	15.53	15.98	16.48	17.03	17.60	18.14	18.56	18.80
	1.25	1.25	1.23	1.22	1.20	1.19	1.18	1.18	1.18	1.18	1.19	1.19	1.20	1.20	1.21	1.21	1.22	1.22	1.23	1.24	1.25	1.25	1.26	1.26
	.85	.86	.86	.87	.87	.86	.86	.86	.86	.86	.87	.87	.86	.86	.85	.85	.84	.83	.82	.82	.82	.82	.83	.84
25-35S 07	13.46	13.20	12.87	12.50	12.08	11.63	11.18	10.74	10.36	10.05	9.84	9.75	9.80	9.99	10.34	10.82	11.39	12.00	12.59	13.09	13.45	13.66	13.72	13.64
	1.17	1.16	1.16	1.16	1.15	1.15	1.15	1.15	1.15	1.15	1.14	1.14	1.14	1.14	1.15	1.15	1.16	1.17	1.18	1.18	1.18	1.18	1.18	1.18
	.85	.85	.85	.86	.86	.87	.88	.88	.89	.89	.89	.89	.89	.89	.88	.88	.87	.87	.86	.86	.85	.85	.85	.85
35-45S 07	13.42	13.37	13.33	13.27	13.13	12.88	12.46	11.89	11.19	10.46	9.78	9.26	8.98	8.97	9.25	9.77	10.47	11.25	11.99	12.63	13.09	13.37	13.48	13.48
	1.19	1.18	1.18	1.17	1.17	1.17	1.17	1.16	1.15	1.14	1.14	1.13	1.12	1.12	1.13	1.13	1.14	1.15	1.16	1.18	1.19	1.19	1.19	1.19
	.85	.85	.84	.84	.84	.84	.85	.86	.87	.88	.89	.90	.90	.89	.89	.88	.88	.88	.87	.86	.85	.85	.85	.85
45-55S 07	14.31	14.30	14.24	14.09	13.78	13.30	12.60	11.73	10.77	9.85	9.06	8.53	8.33	8.46	8.92	9.63	10.50	11.42	12.29	13.03	13.60	13.97	14.18	14.28
	1.19	1.19	1.18	1.18	1.17	1.17	1.16	1.15	1.14	1.13	1.12	1.11	1.11	1.11	1.12	1.13	1.14	1.15	1.17	1.18	1.19	1.19	1.19	1.19
	.83	.83	.82	.83	.83	.84	.85	.86	.88	.89	.90	.90	.90	.90	.89	.88	.87	.86	.86	.85	.85	.84	.84	.84
55-65S 07	18.70	19.71	20.34	20.43	19.92	18.81	17.22	15.33	13.40	11.66	10.29	9.40	8.99	9.01	9.35	9.89	10.55	11.27	12.04	12.89	13.86	14.96	16.18	17.46
	1.28	1.29	1.30	1.30	1.29	1.27	1.25	1.21	1.18	1.15	1.13	1.11	1.11	1.11	1.11	1.12	1.13	1.15	1.16	1.18	1.19	1.21	1.23	1.26
	.80	.79	.78	.78	.79	.80	.81	.83	.85	.87	.88	.89	.89	.89	.89	.89	.88	.88	.87	.86	.85	.84	.83	.82



MONTH	00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23
55-65N 02	18.90	18.44	18.18	18.11	18.13	18.08	17.80	17.15	16.12	14.80	13.38	12.11	11.23	10.95	11.35	12.41	13.97	15.75	17.47	18.86	19.75	20.09	19.93	19.48
	1.25	1.24	1.23	1.24	1.24	1.24	1.24	1.24	1.23	1.21	1.18	1.16	1.14	1.14	1.15	1.17	1.19	1.23	1.25	1.27	1.29	1.29	1.28	1.26
	.78	.78	.78	.78	.78	.79	.80	.81	.82	.84	.85	.86	.87	.87	.87	.87	.86	.84	.83	.81	.80	.79	.78	.78
45-55N 02	17.02	16.28	15.68	15.26	14.98	14.75	14.46	14.02	13.39	12.62	11.81	11.12	10.72	10.75	11.29	12.30	13.67	15.19	16.64	17.79	18.49	18.68	18.40	17.79
	1.23	1.22	1.20	1.20	1.20	1.19	1.18	1.18	1.17	1.16	1.15	1.13	1.13	1.14	1.14	1.17	1.19	1.22	1.24	1.26	1.27	1.27	1.26	1.24
	.80	.81	.81	.82	.82	.82	.83	.84	.85	.85	.86	.87	.88	.88	.88	.88	.87	.85	.84	.83	.81	.81	.80	.80
35-45N 02	14.00	13.55	13.25	13.12	13.10	13.08	12.94	12.61	12.06	11.33	10.54	9.82	9.34	9.22	9.52	10.22	11.23	12.39	13.50	14.41	14.96	15.13	14.94	14.51
	1.19	1.18	1.17	1.17	1.17	1.17	1.17	1.16	1.16	1.15	1.14	1.13	1.13	1.13	1.13	1.14	1.15	1.17	1.19	1.20	1.21	1.21	1.21	1.20
	.84	.84	.84	.84	.84	.84	.84	.85	.86	.87	.88	.88	.89	.89	.89	.88	.87	.86	.85	.84	.83	.83	.83	.83
25-35N																								
15-25N 02	27.11	26.43	25.26	23.64	21.65	19.43	17.13	14.95	13.07	11.62	10.73	10.44	10.77	11.67	13.07	14.87	16.92	19.09	21.21	23.17	24.83	26.10	26.93	27.27
	1.41	1.40	1.38	1.35	1.31	1.28	1.24	1.20	1.17	1.15	1.14	1.14	1.15	1.16	1.18	1.21	1.24	1.27	1.30	1.34	1.36	1.39	1.40	1.41
	.74	.75	.76	.77	.79	.81	.83	.85	.87	.88	.88	.88	.87	.86	.84	.82	.81	.79	.77	.76	.75	.74	.74	.74
5-15N																								
5N-5S 08	0.00	0.00	17.15	23.90	32.10	45.25	21.90	7.20	6.00	6.15	9.50	12.70	15.20	14.40	13.40	12.95	12.90	13.80	13.40	13.70	15.40	0.00	0.00	0.00
	0.00	0.00	1.15	1.29	1.47	1.63	1.36	1.12	1.10	1.08	1.13	1.20	1.26	1.25	1.20	1.19	1.21	1.17	1.16	1.17	1.23	0.00	0.00	0.00
	0.00	0.00	.69	.66	.58	.60	.86	.95	.93	.93	.88	.88	.93	.90	.87	.85	.86	.84	.84	.85	.83	0.00	0.00	0.00
5-15S 08	24.88	26.85	28.01	28.10	27.03	24.89	21.98	18.71	15.54	12.89	11.00	9.97	9.70	9.98	10.56	11.23	11.90	12.55	13.32	14.35	15.77	17.66	19.95	22.45
	1.29	1.32	1.34	1.36	1.36	1.34	1.30	1.26	1.21	1.16	1.12	1.10	1.09	1.09	1.09	1.10	1.12	1.13	1.14	1.15	1.17	1.19	1.22	1.25
	.63	.62	.62	.64	.67	.72	.76	.80	.84	.85	.86	.86	.85	.84	.83	.82	.81	.81	.80	.78	.76	.72	.69	.65
15-25S 08	22.99	22.14	21.01	19.70	18.31	16.94	15.72	14.76	14.13	13.87	13.99	14.43	15.11	15.98	16.94	17.97	19.04	20.11	21.15	22.11	22.89	23.43	23.65	23.51
	1.29	1.29	1.28	1.27	1.26	1.25	1.23	1.22	1.21	1.20	1.20	1.20	1.21	1.22	1.23	1.24	1.25	1.26	1.26	1.27	1.27	1.28	1.28	1.29
	.82	.82	.83	.83	.83	.84	.85	.85	.86	.87	.87	.87	.87	.86	.85	.84	.83	.82	.81	.81	.80	.81	.81	.81
25-35S 08	16.31	15.92	15.33	14.61	13.84	13.07	12.36	11.73	11.17	10.68	10.25	9.88	9.62	9.50	9.60	9.96	10.60	11.51	12.59	13.73	14.80	15.65	16.21	16.42
	1.24	1.23	1.22	1.21	1.19	1.18	1.17	1.15	1.14	1.14	1.13	1.13	1.12	1.13	1.13	1.14	1.16	1.17	1.19	1.21	1.23	1.24	1.24	1.24
	.82	.82	.83	.84	.84	.85	.86	.86	.86	.87	.87	.88	.88	.89	.89	.89	.89	.88	.87	.86	.84	.83	.82	.82
35-45S 08	13.15	13.01	12.88	12.76	12.64	12.48	12.22	11.85	11.35	10.76	10.14	9.57	9.13	8.90	8.92	9.21	9.74	10.45	11.23	11.97	12.59	13.01	13.22	13.25
	1.19	1.19	1.19	1.18	1.18	1.17	1.17	1.17	1.16	1.15	1.14	1.13	1.13	1.13	1.12	1.13	1.13	1.15	1.16	1.17	1.18	1.19	1.19	1.19
	.86	.86	.86	.86	.86	.86	.86	.87	.87	.88	.88	.89	.90	.90	.90	.90	.89	.88	.88	.87	.86	.86	.85	.85
45-55S 08	13.81	13.75	13.67	13.56	13.39	13.09	12.63	12.00	11.24	10.40	9.60	8.93	8.51	8.36	8.56	9.03	9.76	10.64	11.54	12.36	13.03	13.48	13.74	13.83
	1.18	1.17	1.17	1.17	1.17	1.17	1.17	1.16	1.15	1.14	1.13	1.12	1.11	1.11	1.11	1.12	1.13	1.14	1.16	1.17	1.18	1.19	1.19	1.18
	.84	.84	.84	.84	.84	.85	.86	.87	.88	.88	.89	.89	.90	.90	.89	.89	.88	.88	.87	.86	.86	.86	.85	.84
55-65S 08	18.02	18.79	19.35	19.58	19.38	18.69	17.53	15.98	14.20	12.41	10.80	9.54	8.76	8.46	8.63	9.17	9.98	10.96	12.02	13.09	14.15	15.17	16.17	17.12
	1.23	1.24	1.25	1.25	1.25	1.24	1.22	1.20	1.18	1.15	1.13	1.11	1.10	1.09	1.10	1.10	1.12	1.13	1.15	1.17	1.18	1.20	1.21	1.22
	.79	.78	.77	.77	.77	.78	.80	.82	.84	.86	.88	.89	.90	.90	.89	.89	.88	.87	.86	.85	.84	.83	.82	.80

MONTH	00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23
55-65N 03	18.42	18.83	18.96	18.84	18.51	18.03	17.43	16.73	15.93	15.05	14.11	13.14	12.20	11.36	10.72	10.38	10.41	10.84	11.65	12.78	14.08	15.42	16.67	17.68
	1.24	1.25	1.25	1.25	1.24	1.24	1.23	1.21	1.20	1.18	1.16	1.14	1.13	1.11	1.11	1.11	1.11	1.13	1.15	1.17	1.18	1.21	1.22	1.24
	.78	.78	.78	.77	.78	.78	.78	.78	.79	.79	.80	.81	.82	.83	.84	.85	.85	.86	.85	.84	.83	.81	.80	.79
45-55N 03	14.35	14.34	14.25	14.11	13.98	13.84	13.67	13.42	13.06	12.58	11.98	11.32	10.66	10.10	9.74	9.64	9.84	10.31	11.00	11.80	12.61	13.33	13.86	14.21
	1.19	1.19	1.18	1.19	1.18	1.17	1.17	1.16	1.15	1.14	1.13	1.12	1.10	1.10	1.10	1.10	1.11	1.12	1.13	1.14	1.15	1.17	1.18	1.19
	.83	.83	.83	.83	.83	.83	.83	.83	.83	.83	.83	.84	.85	.86	.86	.87	.87	.87	.86	.86	.85	.84	.84	.84
35-45N 03	12.30	12.14	11.92	11.69	11.42	11.11	10.72	10.24	9.66	9.03	8.39	7.83	7.44	7.28	7.40	7.79	8.42	9.20	10.05	10.86	11.54	12.03	12.30	12.38
	1.17	1.17	1.16	1.16	1.15	1.14	1.14	1.13	1.12	1.11	1.10	1.09	1.08	1.08	1.09	1.09	1.10	1.12	1.13	1.14	1.15	1.16	1.17	1.17
	.86	.86	.86	.87	.87	.87	.88	.88	.88	.89	.90	.90	.91	.91	.91	.91	.90	.89	.88	.87	.86	.86	.85	.86
25-35N																								
15-25N 03	29.18	30.47	30.48	29.12	26.53	23.03	19.09	15.21	11.83	9.25	7.60	6.83	6.77	7.22	7.97	8.91	10.03	11.38	13.09	15.23	17.84	20.83	23.95	26.87
	1.44	1.46	1.46	1.43	1.38	1.33	1.26	1.20	1.15	1.12	1.10	1.09	1.09	1.10	1.11	1.12	1.14	1.16	1.18	1.21	1.25	1.30	1.36	1.40
	.75	.74	.75	.76	.78	.80	.82	.85	.88	.90	.91	.92	.92	.92	.91	.89	.88	.86	.84	.82	.80	.78	.77	.75
5-15N																								
5N-5S 09	17.39	19.19	20.66	21.44	21.29	20.18	18.26	15.86	13.42	11.34	9.90	9.23	9.25	9.76	10.50	11.22	11.75	12.05	12.16	12.24	12.49	13.07	14.11	15.59
	1.24	1.26	1.28	1.28	1.28	1.26	1.24	1.21	1.18	1.16	1.14	1.13	1.14	1.14	1.15	1.16	1.17	1.18	1.18	1.18	1.18	1.19	1.20	1.22
	.79	.76	.74	.73	.73	.75	.78	.81	.85	.88	.90	.91	.91	.90	.89	.88	.87	.87	.86	.86	.86	.85	.83	.81
5-15S 09	22.20	24.08	25.22	25.37	24.43	22.49	19.79	16.71	13.68	11.07	9.13	7.96	7.53	7.66	8.14	8.80	9.51	10.26	11.11	12.18	13.58	15.38	17.54	19.90
	1.26	1.30	1.33	1.35	1.34	1.32	1.28	1.23	1.18	1.14	1.10	1.08	1.07	1.07	1.08	1.09	1.09	1.10	1.10	1.11	1.12	1.14	1.17	1.21
	.71	.69	.68	.68	.70	.73	.76	.80	.84	.86	.88	.89	.90	.89	.88	.87	.86	.85	.84	.83	.81	.78	.76	.73
15-25S 09	21.33	21.96	22.52	22.78	22.54	21.71	20.37	18.69	16.98	15.54	14.65	14.44	14.92	15.95	17.29	18.67	19.84	20.63	21.01	21.03	20.84	20.65	20.61	20.83
	1.30	1.30	1.31	1.31	1.31	1.30	1.28	1.26	1.24	1.22	1.20	1.20	1.20	1.21	1.22	1.24	1.26	1.28	1.29	1.30	1.30	1.30	1.30	1.30
	.80	.78	.78	.77	.77	.78	.79	.80	.81	.82	.83	.83	.82	.81	.80	.79	.79	.79	.79	.80	.81	.81	.81	.80
25-35S 09	15.17	15.83	16.12	15.97	15.39	14.46	13.31	12.12	11.06	10.25	9.75	9.54	9.55	9.68	9.84	9.98	10.09	10.23	10.47	10.86	11.47	12.29	13.25	14.25
	1.20	1.22	1.22	1.22	1.22	1.20	1.18	1.16	1.15	1.13	1.13	1.12	1.12	1.13	1.13	1.13	1.13	1.13	1.13	1.13	1.14	1.15	1.17	1.18
	.82	.82	.82	.82	.83	.84	.85	.86	.87	.88	.88	.88	.89	.89	.89	.88	.88	.88	.87	.87	.86	.85	.84	.83
35-45S 09	12.67	12.95	13.22	13.42	13.52	13.47	13.24	12.82	12.23	11.53	10.80	10.11	9.57	9.21	9.07	9.14	9.40	9.80	10.26	10.76	11.23	11.66	12.03	12.36
	1.17	1.17	1.17	1.17	1.18	1.17	1.17	1.16	1.15	1.15	1.14	1.14	1.13	1.13	1.13	1.12	1.13	1.13	1.14	1.14	1.14	1.15	1.16	1.16
	.85	.85	.85	.84	.84	.84	.85	.85	.85	.86	.87	.88	.88	.89	.89	.89	.89	.88	.87	.87	.86	.86	.86	.85
45-55S 09	13.99	14.24	14.40	14.45	14.40	14.20	13.90	13.48	13.00	12.49	12.00	11.56	11.20	10.95	10.84	10.84	10.97	11.21	11.56	11.97	12.42	12.86	13.29	13.67
	1.16	1.16	1.16	1.15	1.16	1.15	1.15	1.14	1.13	1.13	1.13	1.13	1.13	1.13	1.13	1.13	1.13	1.14	1.14	1.14	1.15	1.16	1.16	1.16
	.81	.81	.81	.81	.81	.81	.82	.82	.83	.83	.84	.85	.86	.86	.86	.86	.86	.86	.85	.84	.84	.83	.82	.82
55-65S 09	21.29	22.26	22.70	22.53	21.80	20.61	19.17	17.65	16.26	15.12	14.27	13.71	13.36	13.14	12.98	12.88	12.87	13.03	13.45	14.21	15.32	16.73	18.32	19.90
	1.25	1.27	1.29	1.30	1.29	1.28	1.26	1.23	1.21	1.18	1.16	1.15	1.14	1.14	1.14	1.14	1.14	1.14	1.15	1.15	1.16	1.18	1.20	1.22
	.70	.70	.70	.71	.72	.74	.76	.78	.79	.80	.80	.80	.80	.80	.80	.81	.82	.82	.82	.82	.81	.79	.77	.74

MONTH	00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23
55-65N 04	16.73	17.20	17.33	17.14	16.74	16.22	15.72	15.31	15.02	14.83	14.67	14.47	14.17	13.74	13.20	12.65	12.18	11.92	11.95	12.32	13.01	13.94	14.97	15.94
	1.18	1.19	1.20	1.20	1.20	1.19	1.18	1.18	1.17	1.16	1.15	1.14	1.14	1.13	1.13	1.12	1.11	1.11	1.11	1.12	1.13	1.14	1.15	1.17
	.77	.76	.76	.77	.78	.79	.80	.80	.80	.80	.79	.79	.80	.80	.81	.82	.83	.83	.83	.82	.81	.80	.79	.77
45-55N 04	12.93	13.14	13.36	13.61	13.89	14.19	14.51	14.83	15.10	15.31	15.38	15.32	15.12	14.78	14.35	13.88	13.41	13.01	12.70	12.50	12.43	12.46	12.56	12.73
	1.14	1.14	1.14	1.15	1.15	1.16	1.16	1.17	1.17	1.17	1.17	1.16	1.15	1.15	1.14	1.13	1.13	1.13	1.13	1.13	1.13	1.13	1.14	1.14
	.83	.82	.81	.81	.80	.80	.80	.79	.79	.78	.78	.77	.77	.78	.78	.79	.80	.81	.82	.83	.84	.84	.83	.83
35-45N 04	10.94	11.15	11.43	11.77	12.09	12.31	12.36	12.19	11.80	11.23	10.57	9.92	9.37	9.01	8.87	8.94	9.19	9.54	9.92	10.25	10.50	10.66	10.75	10.83
	1.14	1.14	1.13	1.14	1.14	1.14	1.14	1.14	1.13	1.12	1.11	1.10	1.09	1.08	1.09	1.09	1.10	1.10	1.11	1.12	1.13	1.14	1.14	1.14
	.86	.86	.85	.85	.84	.84	.84	.84	.84	.85	.86	.87	.88	.88	.89	.89	.88	.88	.87	.87	.87	.87	.87	.87
25-35N																								
15-25N 04	21.05	21.75	22.00	21.69	20.77	19.28	17.31	15.07	12.79	10.71	9.04	7.91	7.36	7.37	7.86	8.73	9.88	11.22	12.68	14.20	15.75	17.27	18.70	19.99
	1.28	1.28	1.28	1.28	1.27	1.25	1.22	1.19	1.16	1.14	1.11	1.10	1.09	1.09	1.10	1.12	1.14	1.16	1.18	1.20	1.22	1.24	1.26	1.27
	.76	.76	.76	.76	.77	.79	.81	.84	.86	.88	.89	.90	.91	.91	.91	.90	.89	.88	.86	.85	.83	.81	.79	.78
5-15N																								
5N-5S 10	16.26	18.25	19.87	20.81	20.86	19.97	18.31	16.18	13.96	12.01	10.57	9.74	9.47	9.59	9.88	10.16	10.30	10.31	10.25	10.28	10.59	11.32	12.56	14.26
	1.20	1.23	1.26	1.28	1.28	1.28	1.26	1.23	1.20	1.18	1.16	1.14	1.13	1.13	1.13	1.13	1.12	1.12	1.11	1.11	1.11	1.12	1.14	1.17
	.81	.79	.79	.78	.79	.80	.81	.83	.86	.87	.89	.89	.89	.89	.88	.88	.87	.86	.86	.85	.85	.84	.83	.82
5-15S 10	19.11	20.74	21.75	21.97	21.33	19.87	17.80	15.39	12.93	10.71	8.91	7.65	6.93	6.66	6.75	7.08	7.58	8.22	9.05	10.11	11.47	13.14	15.08	17.13
	1.22	1.25	1.28	1.29	1.29	1.28	1.25	1.22	1.18	1.14	1.11	1.09	1.08	1.08	1.08	1.08	1.08	1.09	1.09	1.10	1.11	1.13	1.15	1.18
	.75	.74	.73	.74	.76	.78	.80	.83	.85	.87	.89	.90	.90	.91	.91	.90	.89	.88	.87	.85	.83	.81	.78	.76
15-25S 10	18.39	18.48	18.46	18.26	17.79	17.02	15.97	14.74	13.48	12.36	11.54	11.12	11.16	11.62	12.42	13.44	14.54	15.58	16.48	17.16	17.64	17.94	18.14	18.27
	1.24	1.24	1.24	1.24	1.24	1.23	1.21	1.20	1.18	1.16	1.15	1.15	1.15	1.15	1.16	1.18	1.19	1.21	1.22	1.23	1.24	1.24	1.24	1.24
	.81	.81	.80	.80	.80	.80	.81	.83	.84	.85	.86	.86	.86	.86	.85	.84	.83	.82	.82	.82	.82	.82	.82	.81
25-35S 10	14.88	16.07	16.88	17.12	16.71	15.69	14.23	12.57	10.99	9.71	8.88	8.53	8.57	8.88	9.28	9.63	9.86	9.96	10.03	10.19	10.57	11.25	12.26	13.52
	1.21	1.23	1.24	1.25	1.24	1.23	1.20	1.17	1.15	1.12	1.11	1.10	1.09	1.10	1.10	1.11	1.12	1.12	1.12	1.13	1.13	1.15	1.16	1.18
	.84	.83	.82	.81	.82	.83	.84	.85	.87	.88	.88	.88	.88	.88	.87	.87	.87	.87	.88	.88	.88	.87	.86	.85
35-45S 10	13.57	14.15	14.61	14.87	14.89	14.64	14.17	13.54	12.85	12.20	11.67	11.29	11.08	11.00	11.02	11.09	11.15	11.22	11.30	11.42	11.64	11.96	12.41	12.96
	1.18	1.18	1.19	1.19	1.20	1.19	1.18	1.17	1.16	1.14	1.14	1.13	1.13	1.13	1.13	1.14	1.14	1.14	1.14	1.14	1.14	1.15	1.16	1.17
	.84	.83	.83	.82	.82	.82	.82	.83	.84	.84	.85	.85	.85	.86	.86	.85	.86	.86	.85	.86	.85	.85	.85	.84
45-55S 10	13.64	14.02	14.25	14.32	14.23	14.04	13.80	13.56	13.35	13.20	13.09	12.98	12.83	12.61	12.35	12.05	11.76	11.54	11.44	11.51	11.75	12.13	12.62	13.15
	1.18	1.18	1.18	1.19	1.19	1.18	1.17	1.17	1.16	1.15	1.14	1.14	1.14	1.13	1.13	1.13	1.13	1.13	1.13	1.14	1.15	1.15	1.16	1.17
	.84	.83	.83	.83	.83	.83	.83	.83	.83	.83	.82	.82	.82	.82	.83	.83	.84	.84	.85	.85	.86	.85	.85	.84
55-65S 10	17.83	18.55	18.75	18.41	17.61	16.51	15.33	14.27	13.48	13.00	12.81	12.79	12.82	12.79	12.63	12.37	12.08	11.88	11.92	12.29	13.03	14.11	15.40	16.71
	1.20	1.21	1.21	1.21	1.21	1.20	1.20	1.19	1.18	1.17	1.16	1.16	1.15	1.14	1.14	1.13	1.13	1.13	1.14	1.14	1.15	1.17	1.18	1.19
	.75	.74	.74	.74	.76	.78	.80	.82	.83	.84	.84	.83	.82	.82	.81	.82	.82	.83	.84	.84	.83	.81	.79	.77

MONTH	00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23
55-65N 05	14.09	14.76	15.25	15.54	15.63	15.56	15.35	15.06	14.69	14.27	13.80	13.27	12.69	12.09	11.49	10.96	10.55	10.30	10.29	10.52	10.98	11.64	12.44	13.28
	1.16	1.17	1.19	1.19	1.20	1.21	1.21	1.21	1.20	1.19	1.18	1.17	1.16	1.15	1.14	1.13	1.13	1.12	1.11	1.11	1.12	1.12	1.13	1.14
	.82	.81	.81	.81	.81	.81	.82	.82	.83	.83	.83	.84	.84	.85	.85	.86	.86	.86	.86	.86	.86	.84	.84	.83
45-55N 05	12.85	13.18	13.52	13.87	14.21	14.51	14.75	14.90	14.92	14.83	14.59	14.25	13.84	13.39	12.95	12.57	12.27	12.05	11.94	11.92	11.97	12.11	12.31	12.56
	1.14	1.14	1.15	1.16	1.17	1.18	1.19	1.20	1.20	1.20	1.20	1.19	1.18	1.17	1.16	1.16	1.15	1.15	1.14	1.13	1.14	1.13	1.14	1.14
	.82	.81	.81	.82	.81	.81	.82	.82	.82	.82	.82	.82	.82	.82	.83	.83	.83	.84	.84	.84	.83	.83	.83	.82
35-45N 05	9.41	9.69	10.08	10.52	10.94	11.27	11.46	11.47	11.32	11.04	10.69	10.36	10.09	9.93	9.87	9.87	9.91	9.91	9.85	9.72	9.55	9.39	9.28	9.28
	1.12	1.13	1.13	1.13	1.13	1.13	1.13	1.13	1.13	1.13	1.12	1.12	1.12	1.12	1.12	1.12	1.12	1.12	1.12	1.12	1.12	1.12	1.12	1.12
	.89	.88	.87	.86	.85	.84	.84	.84	.84	.85	.85	.86	.87	.87	.87	.87	.87	.87	.87	.88	.88	.89	.89	.89
25-35N																								
15-25N 05	16.23	16.54	16.73	16.74	16.51	16.04	15.36	14.56	13.76	13.08	12.59	12.35	12.36	12.60	12.98	13.43	13.89	14.28	14.60	14.86	15.08	15.30	15.57	15.88
	1.20	1.22	1.23	1.23	1.23	1.23	1.21	1.19	1.17	1.15	1.13	1.12	1.12	1.12	1.13	1.15	1.16	1.17	1.18	1.18	1.19	1.19	1.19	1.20
	.81	.81	.81	.81	.81	.82	.82	.83	.83	.83	.83	.83	.83	.84	.84	.84	.84	.84	.84	.84	.83	.83	.82	.81
5-15N																								
5N-5S 11	15.20	17.16	18.74	19.64	19.68	18.85	17.31	15.35	13.31	11.51	10.17	9.37	9.05	9.06	9.20	9.32	9.31	9.19	9.05	9.06	9.38	10.16	11.45	13.19
	1.19	1.22	1.24	1.25	1.26	1.25	1.23	1.21	1.18	1.16	1.14	1.13	1.13	1.13	1.13	1.13	1.12	1.12	1.12	1.11	1.12	1.13	1.14	1.16
	.82	.79	.78	.77	.77	.78	.80	.82	.84	.87	.88	.89	.90	.89	.89	.89	.88	.88	.88	.88	.88	.87	.86	.84
5-15S 11	17.36	18.14	18.44	18.22	17.48	16.33	14.89	13.34	11.83	10.49	9.38	8.52	7.92	7.55	7.39	7.46	7.78	8.37	9.24	10.38	11.74	13.24	14.76	16.18
	1.20	1.22	1.23	1.23	1.22	1.21	1.19	1.17	1.15	1.13	1.11	1.10	1.09	1.08	1.08	1.08	1.08	1.09	1.10	1.11	1.13	1.15	1.17	1.19
	.78	.77	.77	.77	.78	.80	.82	.84	.86	.88	.89	.90	.90	.90	.90	.90	.89	.88	.87	.85	.84	.82	.81	.79
15-25S 11	10.89	11.07	11.40	11.77	12.08	12.21	12.08	11.70	11.10	10.42	9.77	9.31	9.14	9.27	9.68	10.26	10.88	11.40	11.73	11.80	11.66	11.39	11.10	10.91
	1.14	1.14	1.14	1.15	1.15	1.15	1.14	1.14	1.13	1.13	1.12	1.12	1.12	1.12	1.13	1.14	1.15	1.16	1.16	1.16	1.16	1.15	1.15	1.14
	.88	.87	.86	.85	.85	.84	.84	.85	.85	.86	.88	.88	.89	.89	.88	.88	.87	.87	.87	.87	.87	.87	.88	.88
25-35S 11	12.98	14.06	14.96	15.52	15.65	15.34	14.66	13.76	12.81	11.98	11.37	11.04	10.94	11.00	11.10	11.13	11.04	10.83	10.54	10.31	10.25	10.48	11.04	11.91
	1.17	1.18	1.19	1.20	1.20	1.20	1.18	1.17	1.15	1.13	1.11	1.10	1.10	1.10	1.10	1.10	1.11	1.11	1.12	1.12	1.12	1.13	1.14	1.15
	.84	.83	.82	.81	.81	.81	.81	.82	.83	.83	.84	.84	.84	.83	.83	.83	.83	.84	.84	.85	.86	.86	.86	.85
35-45S 11	11.48	12.28	13.03	13.66	14.10	14.32	14.32	14.16	13.89	13.56	13.21	12.87	12.53	12.19	11.83	11.41	10.94	10.48	10.06	9.76	9.64	9.76	10.14	10.73
	1.16	1.17	1.18	1.19	1.19	1.18	1.18	1.17	1.16	1.16	1.15	1.14	1.14	1.14	1.13	1.12	1.12	1.12	1.11	1.11	1.11	1.12	1.13	1.14
	.87	.86	.85	.84	.83	.82	.82	.81	.81	.81	.81	.82	.82	.82	.83	.84	.85	.86	.87	.88	.88	.88	.88	.88
45-55S 11	12.91	13.22	13.46	13.65	13.78	13.90	14.02	14.19	14.39	14.58	14.73	14.78	14.70	14.47	14.09	13.61	13.08	12.58	12.19	11.95	11.89	12.00	12.24	12.57
	1.15	1.16	1.16	1.17	1.17	1.18	1.18	1.18	1.18	1.18	1.18	1.18	1.17	1.16	1.15	1.14	1.13	1.13	1.13	1.13	1.13	1.14	1.14	1.15
	.83	.83	.83	.82	.82	.83	.83	.82	.82	.81	.80	.80	.79	.79	.79	.80	.81	.81	.82	.83	.83	.83	.83	.84
55-65S 11	15.92	16.80	17.27	17.26	16.84	16.14	15.33	14.59	14.06	13.78	13.71	13.75	13.79	13.70	13.42	12.97	12.40	11.86	11.49	11.44	11.78	12.51	13.56	14.76
	1.15	1.17	1.18	1.18	1.19	1.19	1.19	1.19	1.19	1.19	1.18	1.18	1.17	1.17	1.16	1.15	1.14	1.13	1.13	1.13	1.12	1.13	1.13	1.14
	.77	.75	.75	.75	.76	.78	.81	.83	.84	.84	.84	.84	.83	.82	.82	.82	.83	.84	.85	.85	.84	.83	.81	.79

MONTH	00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23
55-65N 06	12.36	12.87	13.22	13.43	13.51	13.49	13.40	13.24	13.01	12.69	12.28	11.77	11.17	10.53	9.90	9.36	8.96	8.77	8.81	9.10	9.61	10.27	11.00	11.72
	1.13	1.14	1.15	1.16	1.16	1.17	1.18	1.18	1.18	1.17	1.17	1.16	1.15	1.13	1.12	1.11	1.11	1.11	1.11	1.11	1.11	1.11	1.12	1.13
	.84	.83	.82	.82	.82	.83	.84	.84	.85	.86	.86	.86	.87	.87	.88	.89	.90	.90	.90	.90	.89	.87	.86	.85
45-55N 06	12.65	13.07	13.42	13.67	13.80	13.80	13.69	13.45	13.13	12.74	12.33	11.91	11.51	11.16	10.86	10.65	10.51	10.47	10.52	10.69	10.96	11.31	11.73	12.19
	1.15	1.16	1.16	1.17	1.17	1.17	1.17	1.17	1.17	1.17	1.17	1.16	1.15	1.15	1.14	1.14	1.13	1.13	1.13	1.13	1.13	1.14	1.14	1.15
	.85	.84	.84	.84	.84	.84	.84	.84	.85	.86	.86	.87	.87	.88	.88	.88	.88	.88	.88	.88	.88	.87	.87	.86
35-45N 06	10.27	10.48	10.77	11.12	11.48	11.82	12.11	12.29	12.36	12.31	12.16	11.94	11.68	11.41	11.17	10.95	10.76	10.60	10.45	10.32	10.21	10.13	10.11	10.15
	1.12	1.12	1.13	1.13	1.14	1.15	1.15	1.15	1.15	1.16	1.16	1.16	1.16	1.16	1.16	1.15	1.15	1.15	1.15	1.14	1.13	1.13	1.13	1.13
	.87	.87	.87	.86	.86	.85	.85	.85	.85	.85	.85	.85	.86	.87	.88	.88	.88	.89	.89	.88	.88	.88	.87	.87
25-35N																								
15-25N 06	15.82	16.34	16.84	17.21	17.36	17.22	16.79	16.10	15.25	14.35	13.53	12.88	12.48	12.36	12.47	12.76	13.15	13.55	13.91	14.20	14.44	14.67	14.96	15.34
	1.19	1.20	1.21	1.22	1.23	1.23	1.23	1.21	1.20	1.18	1.16	1.15	1.14	1.14	1.14	1.15	1.15	1.16	1.17	1.17	1.17	1.17	1.18	1.18
	.81	.80	.80	.79	.79	.79	.79	.80	.81	.81	.82	.83	.83	.83	.84	.84	.84	.84	.83	.83	.83	.83	.82	.82
5-15N																								
5N-5S 12	16.44	18.86	20.93	22.24	22.50	21.62	19.74	17.17	14.35	11.72	9.65	8.33	7.76	7.80	8.20	8.71	9.12	9.36	9.46	9.59	9.94	10.75	12.12	14.07
	1.22	1.26	1.29	1.32	1.33	1.32	1.29	1.25	1.21	1.17	1.13	1.11	1.10	1.10	1.11	1.12	1.13	1.13	1.13	1.13	1.13	1.14	1.16	1.18
	.80	.77	.74	.73	.73	.74	.76	.79	.83	.86	.88	.90	.91	.91	.91	.90	.90	.89	.89	.89	.89	.87	.86	.83
5-15S 12	19.87	21.20	21.88	21.80	20.95	19.42	17.41	15.19	13.03	11.15	9.69	8.72	8.17	7.96	7.99	8.19	8.54	9.07	9.85	10.96	12.41	14.16	16.12	18.09
	1.26	1.28	1.29	1.28	1.27	1.25	1.23	1.20	1.17	1.14	1.12	1.10	1.10	1.09	1.09	1.09	1.10	1.10	1.12	1.13	1.15	1.18	1.21	1.23
	.75	.74	.73	.73	.74	.76	.78	.81	.84	.86	.88	.89	.90	.90	.90	.89	.89	.88	.87	.85	.83	.81	.79	.77
15-25S 12	10.37	10.62	10.97	11.32	11.57	11.65	11.53	11.24	10.86	10.48	10.20	10.09	10.19	10.47	10.86	11.26	11.57	11.72	11.66	11.41	11.06	10.69	10.40	10.29
	1.13	1.14	1.14	1.14	1.14	1.14	1.14	1.13	1.13	1.12	1.12	1.12	1.12	1.12	1.13	1.13	1.14	1.14	1.14	1.14	1.13	1.13	1.13	1.13
	.87	.87	.86	.86	.85	.85	.85	.85	.86	.86	.86	.87	.87	.86	.86	.86	.85	.85	.85	.86	.86	.87	.87	.87
25-35S 12	14.07	15.11	16.02	16.62	16.75	16.39	15.61	14.54	13.39	12.36	11.60	11.20	11.15	11.36	11.71	12.05	12.26	12.29	12.17	11.98	11.87	11.97	12.37	13.09
	1.17	1.19	1.20	1.21	1.22	1.22	1.21	1.19	1.18	1.16	1.14	1.13	1.13	1.12	1.13	1.13	1.14	1.14	1.15	1.15	1.15	1.15	1.15	1.16
	.83	.82	.81	.81	.81	.81	.82	.83	.84	.85	.85	.86	.85	.85	.85	.84	.84	.84	.85	.85	.85	.85	.85	.84
35-45S 12	12.68	13.18	13.69	14.10	14.37	14.45	14.35	14.09	13.75	13.37	13.03	12.78	12.63	12.55	12.53	12.50	12.43	12.32	12.15	11.98	11.85	11.83	11.95	12.25
	1.16	1.17	1.17	1.17	1.17	1.18	1.18	1.18	1.17	1.17	1.16	1.15	1.15	1.15	1.14	1.14	1.14	1.15	1.15	1.15	1.15	1.15	1.16	1.16
	.85	.84	.83	.82	.82	.82	.82	.82	.83	.83	.84	.84	.84	.84	.83	.84	.84	.85	.86	.86	.87	.87	.87	.86
45-55S 12	11.87	12.38	12.88	13.27	13.50	13.55	13.43	13.22	12.99	12.80	12.70	12.69	12.75	12.84	12.87	12.81	12.63	12.32	11.94	11.57	11.26	11.12	11.18	11.44
	1.14	1.15	1.15	1.15	1.16	1.16	1.17	1.17	1.17	1.17	1.17	1.16	1.16	1.16	1.16	1.15	1.15	1.15	1.14	1.14	1.14	1.13	1.13	1.14
	.85	.84	.83	.83	.83	.83	.83	.83	.84	.84	.84	.84	.84	.83	.83	.83	.84	.84	.85	.85	.86	.86	.86	.86
55-65S 12	13.17	13.93	14.51	14.81	14.77	14.42	13.85	13.14	12.44	11.84	11.39	11.12	10.98	10.94	10.92	10.88	10.79	10.68	10.58	10.57	10.71	11.06	11.62	12.35
	1.13	1.13	1.14	1.15	1.15	1.15	1.15	1.15	1.15	1.14	1.14	1.14	1.13	1.13	1.13	1.13	1.13	1.12	1.12	1.12	1.11	1.11	1.11	1.12
	.82	.81	.79	.79	.79	.80	.81	.82	.84	.85	.86	.87	.87	.87	.87	.87	.87	.87	.87	.87	.87	.86	.85	.84

MONTH	00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23
55-65N 07	11.44	12.11	12.58	12.82	12.83	12.66	12.33	11.90	11.41	10.88	10.32	9.75	9.17	8.60	8.08	7.63	7.32	7.18	7.26	7.59	8.14	8.87	9.73	10.61
	1.13	1.15	1.16	1.16	1.17	1.17	1.16	1.16	1.15	1.14	1.12	1.11	1.10	1.09	1.09	1.09	1.08	1.08	1.08	1.09	1.09	1.10	1.11	1.12
	.85	.85	.84	.84	.84	.85	.85	.86	.86	.87	.87	.88	.88	.89	.90	.90	.91	.91	.91	.90	.90	.89	.87	.86
45-55N 07	11.09	11.45	11.80	12.11	12.36	12.52	12.59	12.54	12.37	12.09	11.71	11.28	10.84	10.41	10.05	9.77	9.60	9.53	9.56	9.68	9.86	10.11	10.40	10.74
	1.14	1.14	1.14	1.15	1.16	1.16	1.16	1.16	1.16	1.16	1.15	1.14	1.14	1.13	1.12	1.12	1.12	1.12	1.12	1.12	1.12	1.13	1.13	1.13
	.87	.86	.86	.85	.85	.85	.85	.85	.85	.86	.86	.86	.87	.87	.88	.88	.88	.88	.88	.88	.88	.88	.88	.87
35-45N 07	9.20	9.28	9.47	9.79	10.21	10.66	11.07	11.36	11.46	11.35	11.04	10.58	10.05	9.55	9.13	8.87	8.75	8.77	8.88	9.02	9.14	9.20	9.21	9.19
	1.11	1.12	1.12	1.13	1.14	1.14	1.15	1.15	1.15	1.15	1.14	1.13	1.12	1.12	1.11	1.11	1.11	1.12	1.12	1.12	1.12	1.12	1.12	1.11
	.89	.89	.88	.88	.87	.87	.86	.86	.85	.85	.86	.86	.87	.88	.89	.89	.90	.90	.90	.89	.89	.89	.89	.89
25-35N																								
15-25N 07	15.29	15.55	15.86	16.14	16.31	16.27	15.98	15.41	14.63	13.75	12.88	12.16	11.70	11.56	11.73	12.17	12.78	13.43	14.02	14.47	14.77	14.93	15.03	15.13
	1.21	1.22	1.22	1.22	1.23	1.22	1.22	1.21	1.19	1.17	1.15	1.13	1.12	1.11	1.11	1.11	1.12	1.13	1.15	1.16	1.18	1.19	1.20	1.21
	.81	.81	.81	.81	.81	.81	.81	.82	.82	.83	.83	.84	.84	.84	.84	.83	.82	.82	.81	.81	.81	.81	.81	.81
5-15N																								
5N-5S 01	15.50	17.44	19.06	20.02	20.11	19.29	17.66	15.52	13.20	11.09	9.45	8.43	8.01	8.06	8.38	8.77	9.06	9.23	9.32	9.47	9.86	10.63	11.87	13.54
	1.20	1.22	1.25	1.27	1.27	1.27	1.25	1.22	1.19	1.16	1.13	1.11	1.10	1.10	1.11	1.11	1.12	1.12	1.13	1.13	1.13	1.14	1.15	1.17
	.80	.78	.76	.75	.76	.77	.80	.83	.86	.88	.90	.91	.91	.90	.90	.89	.89	.88	.88	.88	.87	.86	.85	.82
5-15S 01	19.80	21.29	22.30	22.65	22.22	21.02	19.21	17.03	14.77	12.72	11.08	9.98	9.41	9.28	9.48	9.86	10.35	10.91	11.57	12.39	13.44	14.76	16.33	18.06
	1.23	1.25	1.27	1.28	1.28	1.26	1.24	1.21	1.18	1.15	1.13	1.11	1.10	1.10	1.11	1.11	1.12	1.13	1.14	1.15	1.16	1.17	1.19	1.21
	.73	.72	.71	.72	.73	.75	.78	.81	.84	.86	.88	.89	.89	.89	.89	.88	.87	.86	.85	.83	.82	.79	.77	.75
15-25S 01	12.88	13.47	14.37	15.37	16.21	16.67	16.64	16.13	15.26	14.25	13.36	12.80	12.70	13.05	13.76	14.60	15.35	15.79	15.79	15.36	14.62	13.78	13.09	12.74
	1.19	1.20	1.21	1.22	1.24	1.24	1.24	1.23	1.21	1.19	1.17	1.16	1.15	1.15	1.16	1.18	1.20	1.21	1.22	1.22	1.22	1.21	1.20	1.20
	.88	.87	.85	.84	.82	.81	.80	.80	.81	.81	.82	.82	.82	.82	.81	.80	.79	.80	.80	.82	.84	.85	.87	.88
25-35S 01	15.09	16.09	16.98	17.58	17.76	17.51	16.88	16.01	15.07	14.23	13.62	13.28	13.20	13.29	13.45	13.57	13.57	13.43	13.21	12.98	12.88	13.00	13.42	14.14
	1.19	1.20	1.22	1.23	1.23	1.23	1.22	1.20	1.17	1.15	1.13	1.12	1.11	1.11	1.12	1.13	1.14	1.14	1.15	1.15	1.15	1.16	1.16	1.17
	.81	.80	.80	.79	.79	.80	.80	.81	.81	.81	.81	.81	.80	.80	.79	.79	.80	.80	.81	.82	.82	.83	.82	.82
35-45S 01	12.81	13.61	14.40	15.06	15.48	15.61	15.47	15.12	14.65	14.17	13.76	13.46	13.28	13.18	13.09	12.95	12.73	12.41	12.04	11.69	11.45	11.42	11.64	12.11
	1.17	1.18	1.19	1.20	1.20	1.20	1.20	1.19	1.18	1.18	1.17	1.16	1.17	1.17	1.17	1.17	1.17	1.17	1.17	1.16	1.16	1.16	1.16	1.17
	.85	.84	.83	.82	.82	.81	.80	.80	.81	.81	.82	.83	.83	.84	.84	.85	.85	.85	.86	.86	.86	.87	.87	.86
45-55S 01	13.00	13.66	14.25	14.66	14.85	14.82	14.61	14.32	14.02	13.79	13.66	13.61	13.62	13.60	13.50	13.29	12.96	12.55	12.13	11.77	11.59	11.61	11.88	12.37
	1.17	1.18	1.19	1.19	1.19	1.19	1.18	1.18	1.18	1.17	1.17	1.17	1.17	1.17	1.17	1.17	1.17	1.16	1.15	1.15	1.15	1.15	1.16	1.16
	.84	.84	.83	.83	.83	.83	.83	.83	.83	.83	.83	.83	.83	.84	.84	.84	.84	.85	.85	.85	.85	.85	.85	.85
55-65S 01	15.15	16.20	16.84	16.97	16.59	15.81	14.79	13.74	12.82	12.15	11.76	11.60	11.57	11.55	11.44	11.21	10.87	10.53	10.30	10.33	10.71	11.47	12.57	13.86
	1.16	1.18	1.19	1.20	1.20	1.19	1.18	1.16	1.15	1.14	1.13	1.12	1.12	1.13	1.13	1.13	1.13	1.13	1.12	1.12	1.12	1.12	1.13	1.15
	.81	.79	.78	.78	.79	.80	.81	.83	.84	.84	.85	.85	.84	.85	.85	.85	.86	.86	.87	.87	.86	.85	.84	.82

MONTH	00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23
55-65N 08	13.39	14.03	14.33	14.27	13.91	13.36	12.73	12.14	11.65	11.28	11.00	10.76	10.48	10.14	9.72	9.28	8.88	8.63	8.63	8.92	9.53	10.40	11.43	12.47
	1.16	1.17	1.18	1.18	1.18	1.18	1.17	1.16	1.16	1.15	1.15	1.15	1.14	1.13	1.13	1.12	1.11	1.11	1.10	1.10	1.11	1.12	1.13	1.15
	.82	.82	.82	.82	.83	.84	.85	.86	.86	.87	.87	.87	.88	.88	.88	.89	.89	.89	.89	.88	.88	.86	.85	.83
45-55N 08	13.30	13.54	13.63	13.59	13.47	13.30	13.12	12.92	12.71	12.46	12.16	11.80	11.37	10.93	10.51	10.19	10.01	10.02	10.23	10.63	11.16	11.76	12.36	12.90
	1.16	1.17	1.17	1.17	1.17	1.17	1.17	1.17	1.17	1.16	1.16	1.15	1.15	1.14	1.13	1.13	1.12	1.12	1.12	1.13	1.13	1.14	1.15	1.15
	.83	.83	.83	.83	.84	.84	.85	.85	.85	.85	.86	.86	.86	.86	.87	.87	.87	.87	.87	.86	.86	.85	.84	.84
35-45N 08	10.17	10.34	10.48	10.59	10.66	10.71	10.74	10.74	10.70	10.63	10.51	10.35	10.15	9.92	9.70	9.48	9.32	9.21	9.18	9.23	9.35	9.53	9.74	9.96
	1.11	1.12	1.12	1.12	1.12	1.13	1.13	1.14	1.14	1.14	1.14	1.14	1.14	1.14	1.14	1.13	1.13	1.13	1.13	1.13	1.12	1.12	1.12	1.11
	.87	.86	.86	.86	.86	.86	.86	.86	.86	.86	.86	.87	.87	.88	.89	.89	.90	.90	.90	.89	.89	.88	.88	.87
25-35N																								
15-25N 08	20.98	21.26	21.15	20.66	19.85	18.82	17.66	16.49	15.38	14.40	13.58	12.92	12.41	12.07	11.93	12.03	12.42	13.12	14.12	15.35	16.71	18.07	19.31	20.31
	1.32	1.32	1.31	1.30	1.28	1.27	1.25	1.23	1.22	1.20	1.19	1.18	1.17	1.16	1.15	1.15	1.15	1.16	1.18	1.21	1.24	1.26	1.29	1.31
	.80	.80	.79	.79	.79	.80	.80	.81	.82	.83	.84	.84	.85	.85	.85	.85	.85	.85	.85	.84	.84	.83	.82	.81
5-15N																								
5N-5S 02	14.88	17.11	19.01	20.24	20.54	19.81	18.19	15.96	13.51	11.23	9.44	8.29	7.78	7.76	8.01	8.33	8.55	8.63	8.61	8.64	8.93	9.66	10.92	12.71
	1.19	1.22	1.25	1.26	1.27	1.26	1.24	1.22	1.19	1.16	1.13	1.12	1.11	1.11	1.11	1.11	1.11	1.11	1.11	1.11	1.10	1.11	1.12	1.13
	.81	.78	.76	.74	.74	.75	.78	.81	.84	.87	.90	.92	.92	.92	.92	.91	.90	.90	.89	.89	.89	.88	.86	.84
5-15S 02	20.31	21.71	22.60	22.80	22.21	20.86	18.89	16.57	14.16	11.97	10.20	8.96	8.27	8.06	8.22	8.66	9.29	10.08	11.02	12.16	13.51	15.07	16.80	18.59
	1.28	1.30	1.32	1.32	1.31	1.30	1.27	1.24	1.20	1.17	1.14	1.12	1.11	1.11	1.11	1.12	1.13	1.15	1.16	1.18	1.20	1.22	1.24	1.26
	.74	.73	.72	.73	.74	.76	.79	.82	.85	.87	.89	.89	.90	.90	.90	.90	.90	.89	.88	.87	.85	.83	.80	.77
15-25S 02	11.41	11.62	12.01	12.54	13.13	13.68	14.08	14.22	14.07	13.62	12.94	12.16	11.42	10.82	10.46	10.36	10.48	10.74	11.03	11.27	11.40	11.43	11.38	11.35
	1.16	1.16	1.17	1.17	1.18	1.19	1.19	1.19	1.19	1.18	1.17	1.16	1.15	1.15	1.14	1.14	1.14	1.14	1.14	1.15	1.15	1.15	1.15	1.15
	.87	.87	.86	.86	.85	.84	.84	.84	.84	.84	.85	.86	.86	.87	.87	.87	.87	.86	.86	.86	.86	.86	.87	.87
25-35S 02	14.24	14.62	14.89	15.02	14.93	14.62	14.10	13.42	12.66	11.92	11.28	10.80	10.51	10.42	10.51	10.74	11.07	11.45	11.85	12.24	12.63	13.02	13.42	13.83
	1.16	1.17	1.18	1.19	1.20	1.19	1.19	1.18	1.16	1.14	1.13	1.12	1.11	1.11	1.11	1.12	1.12	1.13	1.13	1.13	1.14	1.14	1.15	1.15
	.82	.81	.81	.81	.81	.82	.83	.84	.84	.85	.86	.86	.86	.86	.85	.85	.84	.84	.83	.83	.83	.82	.82	.82
35-45S 02	11.87	12.24	12.67	13.10	13.50	13.81	14.00	14.03	13.93	13.69	13.36	12.99	12.59	12.22	11.89	11.63	11.42	11.28	11.19	11.16	11.17	11.25	11.38	11.58
	1.15	1.16	1.16	1.16	1.17	1.17	1.17	1.17	1.17	1.16	1.16	1.15	1.14	1.14	1.14	1.14	1.13	1.13	1.14	1.14	1.14	1.14	1.15	1.15
	.86	.85	.85	.84	.83	.83	.82	.82	.82	.82	.83	.83	.83	.84	.84	.85	.85	.86	.86	.87	.87	.87	.87	.87
45-55S 02	14.01	14.30	14.52	14.65	14.67	14.61	14.51	14.36	14.24	14.12	14.03	13.95	13.86	13.75	13.59	13.42	13.23	13.06	12.93	12.89	12.95	13.11	13.37	13.68
	1.17	1.17	1.17	1.17	1.18	1.18	1.18	1.18	1.18	1.17	1.17	1.17	1.16	1.16	1.15	1.15	1.15	1.14	1.14	1.14	1.15	1.15	1.15	1.16
	.81	.81	.81	.81	.82	.82	.82	.83	.83	.83	.82	.82	.82	.82	.81	.82	.82	.82	.82	.82	.82	.82	.81	.82
55-65S 02	16.66	17.41	17.81	17.83	17.48	16.82	15.97	15.06	14.20	13.48	12.91	12.47	12.13	11.85	11.59	11.38	11.25	11.26	11.47	11.92	12.62	13.54	14.59	15.68
	1.18	1.19	1.20	1.20	1.20	1.19	1.18	1.17	1.16	1.15	1.15	1.14	1.14	1.14	1.14	1.13	1.13	1.12	1.12	1.12	1.12	1.13	1.15	1.16
	.75	.74	.75	.75	.76	.77	.79	.80	.81	.81	.82	.83	.83	.83	.84	.84	.84	.83	.83	.81	.80	.78	.77	.76

MONTH	00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23
55-65N 09	17.60	18.02	17.99	17.56	16.86	16.02	15.22	14.53	14.02	13.67	13.41	13.14	12.81	12.37	11.86	11.37	11.03	10.97	11.27	11.96	13.00	14.27	15.58	16.74
	1.20	1.20	1.21	1.21	1.20	1.19	1.18	1.17	1.17	1.17	1.16	1.16	1.16	1.16	1.15	1.14	1.14	1.13	1.13	1.13	1.14	1.15	1.17	1.18
	.76	.76	.76	.76	.78	.79	.80	.81	.82	.83	.84	.84	.84	.85	.86	.86	.87	.87	.85	.85	.83	.81	.79	.77
45-55N 09	14.52	14.65	14.71	14.74	14.74	14.70	14.62	14.49	14.27	13.99	13.63	13.23	12.83	12.47	12.19	12.05	12.06	12.22	12.51	12.89	13.30	13.70	14.05	14.33
	1.18	1.18	1.18	1.18	1.17	1.17	1.17	1.17	1.17	1.17	1.17	1.16	1.16	1.15	1.15	1.14	1.14	1.15	1.15	1.16	1.17	1.18	1.18	1.19
	.82	.82	.81	.81	.81	.81	.81	.81	.82	.82	.83	.83	.84	.85	.85	.85	.85	.85	.84	.84	.83	.83	.83	.83
35-45N 09	13.28	13.05	12.80	12.59	12.43	12.33	12.23	12.08	11.85	11.49	11.03	10.52	10.02	9.64	9.45	9.53	9.88	10.46	11.19	11.94	12.62	13.11	13.38	13.42
	1.17	1.16	1.16	1.15	1.15	1.14	1.14	1.14	1.14	1.13	1.13	1.12	1.12	1.11	1.11	1.11	1.12	1.13	1.14	1.15	1.16	1.16	1.17	1.17
	.83	.83	.84	.84	.85	.85	.85	.84	.85	.85	.85	.86	.87	.88	.88	.88	.87	.87	.86	.84	.84	.83	.82	.83
25-35N																								
15-25N 09	28.11	28.41	27.94	26.69	24.75	22.27	19.47	16.64	14.01	11.80	10.15	9.12	8.71	8.87	9.57	10.74	12.32	14.26	16.47	18.84	21.24	23.53	25.54	27.11
	1.44	1.45	1.45	1.43	1.40	1.35	1.30	1.25	1.20	1.16	1.13	1.11	1.10	1.11	1.12	1.14	1.16	1.19	1.23	1.27	1.31	1.35	1.39	1.42
	.74	.74	.75	.76	.78	.80	.82	.83	.85	.86	.87	.88	.88	.88	.87	.86	.85	.83	.82	.80	.78	.77	.75	.75
5-15N																								
5N-5S 03	15.24	16.50	17.44	17.89	17.75	17.04	15.90	14.50	13.08	11.83	10.86	10.22	9.87	9.72	9.68	9.68	9.68	9.71	9.83	10.11	10.63	11.45	12.54	13.85
	1.21	1.24	1.26	1.27	1.27	1.26	1.24	1.21	1.18	1.16	1.14	1.13	1.13	1.13	1.13	1.13	1.13	1.13	1.13	1.12	1.13	1.14	1.16	1.18
	.83	.83	.82	.82	.83	.83	.84	.85	.85	.86	.87	.88	.89	.89	.90	.90	.89	.89	.88	.87	.86	.85	.84	.84
5-15S 03	18.96	20.74	21.95	22.39	21.97	20.69	18.71	16.28	13.72	11.31	9.30	7.82	6.89	6.47	6.43	6.67	7.12	7.74	8.56	9.64	11.02	12.74	14.73	16.86
	1.21	1.25	1.28	1.30	1.30	1.29	1.26	1.23	1.18	1.14	1.11	1.09	1.08	1.07	1.08	1.08	1.09	1.09	1.09	1.09	1.10	1.12	1.14	1.17
	.74	.73	.73	.74	.75	.77	.79	.82	.84	.86	.88	.89	.91	.91	.92	.92	.91	.89	.88	.85	.82	.80	.77	.75
15-25S 03	15.93	15.88	16.05	16.31	16.48	16.40	15.92	15.03	13.80	12.42	11.14	10.17	9.73	9.89	10.64	11.84	13.29	14.73	15.92	16.71	17.03	16.95	16.61	16.21
	1.19	1.19	1.20	1.20	1.20	1.20	1.19	1.18	1.16	1.15	1.14	1.13	1.13	1.13	1.14	1.15	1.16	1.18	1.19	1.20	1.20	1.19	1.19	1.19
	.78	.79	.79	.79	.79	.79	.80	.82	.83	.85	.87	.88	.89	.88	.87	.86	.84	.82	.80	.78	.77	.77	.77	.78
25-35S 03	12.98	13.54	14.03	14.39	14.54	14.45	14.09	13.51	12.74	11.90	11.05	10.31	9.73	9.36	9.20	9.23	9.42	9.71	10.07	10.48	10.90	11.36	11.86	12.40
	1.16	1.17	1.18	1.19	1.19	1.20	1.19	1.18	1.17	1.15	1.14	1.12	1.11	1.10	1.10	1.10	1.10	1.11	1.11	1.12	1.13	1.13	1.14	1.15
	.84	.83	.83	.83	.83	.83	.84	.84	.85	.86	.87	.88	.89	.89	.89	.89	.88	.88	.87	.86	.86	.85	.85	.84
35-45S 03	9.92	10.23	10.63	11.08	11.53	11.93	12.19	12.25	12.09	11.73	11.19	10.57	9.94	9.41	9.02	8.79	8.72	8.77	8.91	9.06	9.22	9.36	9.51	9.69
	1.12	1.12	1.13	1.13	1.14	1.15	1.15	1.15	1.15	1.14	1.14	1.13	1.12	1.12	1.12	1.11	1.11	1.12	1.12	1.12	1.11	1.11	1.11	1.12
	.87	.86	.86	.86	.85	.85	.85	.85	.85	.85	.86	.87	.88	.88	.88	.89	.89	.89	.88	.88	.88	.88	.87	.87
45-55S 03	11.50	11.64	11.84	12.10	12.45	12.88	13.35	13.83	14.27	14.61	14.81	14.83	14.67	14.35	13.90	13.38	12.85	12.36	11.97	11.67	11.49	11.39	11.37	11.41
	1.13	1.13	1.14	1.14	1.15	1.15	1.16	1.17	1.17	1.18	1.18	1.18	1.17	1.17	1.16	1.15	1.15	1.14	1.13	1.13	1.13	1.13	1.13	1.13
	.85	.85	.85	.84	.84	.84	.83	.83	.82	.82	.81	.81	.81	.82	.82	.83	.83	.84	.84	.85	.85	.85	.85	.86
55-65S 03	15.83	16.98	17.77	18.11	18.01	17.57	16.97	16.37	15.93	15.71	15.68	15.73	15.74	15.56	15.11	14.39	13.50	12.60	11.87	11.50	11.59	12.19	13.21	14.49
	1.18	1.19	1.20	1.20	1.20	1.21	1.21	1.21	1.22	1.23	1.23	1.23	1.23	1.22	1.21	1.19	1.17	1.15	1.14	1.14	1.14	1.15	1.16	1.17
	.78	.76	.75	.75	.75	.76	.78	.80	.81	.83	.83	.83	.83	.83	.83	.83	.83	.84	.84	.85	.84	.84	.82	.80



MONTH	00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23
55-65N 10	18.75	18.86	18.77	18.53	18.19	17.75	17.23	16.61	15.89	15.08	14.21	13.32	12.50	11.83	11.41	11.33	11.63	12.32	13.32	14.51	15.74	16.86	17.77	18.40
	1.23	1.23	1.23	1.23	1.23	1.22	1.21	1.20	1.19	1.17	1.16	1.15	1.14	1.13	1.13	1.13	1.13	1.14	1.16	1.17	1.19	1.20	1.22	1.22
	.75	.75	.75	.76	.76	.77	.77	.78	.79	.80	.81	.82	.83	.84	.85	.85	.85	.84	.83	.81	.79	.78	.77	.76
45-55N 10	15.54	15.15	14.76	14.45	14.22	14.06	13.91	13.73	13.47	13.13	12.72	12.28	11.91	11.68	11.67	11.93	12.46	13.20	14.05	14.85	15.50	15.90	16.01	15.86
	1.20	1.19	1.18	1.18	1.17	1.17	1.16	1.16	1.15	1.15	1.14	1.14	1.13	1.13	1.13	1.14	1.15	1.16	1.18	1.19	1.20	1.20	1.21	1.20
	.82	.82	.82	.82	.82	.82	.82	.82	.82	.83	.84	.85	.85	.85	.86	.85	.85	.84	.83	.83	.82	.82	.82	.82
35-45N 10	13.87	13.26	12.63	12.08	11.62	11.23	10.89	10.53	10.13	9.67	9.20	8.78	8.50	8.47	8.74	9.35	10.24	11.32	12.43	13.45	14.20	14.61	14.66	14.38
	1.19	1.18	1.17	1.17	1.16	1.15	1.14	1.13	1.13	1.12	1.12	1.11	1.11	1.12	1.12	1.13	1.14	1.15	1.16	1.17	1.18	1.19	1.19	1.19
	.84	.85	.86	.87	.87	.87	.87	.87	.88	.88	.89	.90	.90	.90	.90	.89	.88	.86	.85	.83	.82	.83	.82	.84
25-35N																								
15-25N 10	28.60	28.00	26.80	25.04	22.85	20.39	17.88	15.54	13.54	12.04	11.10	10.72	10.88	11.54	12.67	14.22	16.13	18.31	20.62	22.90	24.97	26.68	27.91	28.56
	1.46	1.45	1.43	1.40	1.37	1.33	1.28	1.24	1.21	1.18	1.16	1.15	1.15	1.16	1.17	1.20	1.23	1.27	1.31	1.35	1.39	1.42	1.44	1.46
	.74	.74	.76	.78	.80	.83	.85	.87	.88	.88	.88	.88	.87	.86	.85	.84	.83	.82	.80	.79	.77	.76	.74	.74
5-15N																								
5N-5S 04	15.88	17.68	19.03	19.61	19.30	18.14	16.38	14.41	12.62	11.34	10.71	10.71	11.16	11.76	12.25	12.43	12.24	11.76	11.18	10.76	10.72	11.24	12.35	13.97
	1.22	1.24	1.26	1.27	1.26	1.25	1.22	1.20	1.18	1.16	1.16	1.16	1.16	1.17	1.17	1.17	1.17	1.16	1.15	1.14	1.14	1.15	1.17	1.19
	.80	.78	.76	.76	.76	.77	.80	.82	.85	.87	.89	.90	.90	.90	.89	.89	.89	.89	.88	.88	.88	.87	.85	.83
5-15S 04	15.93	18.55	20.72	22.09	22.41	21.63	19.88	17.47	14.79	12.23	10.11	8.61	7.72	7.33	7.24	7.26	7.24	7.17	7.14	7.32	7.92	9.09	10.90	13.25
	1.17	1.21	1.24	1.27	1.28	1.28	1.26	1.23	1.20	1.16	1.13	1.10	1.09	1.07	1.07	1.06	1.06	1.06	1.06	1.06	1.07	1.08	1.10	1.13
	.77	.74	.71	.70	.71	.72	.75	.79	.82	.85	.88	.89	.90	.90	.89	.89	.89	.89	.90	.89	.88	.87	.84	.81
15-25S 04	25.46	25.36	25.20	24.87	24.21	23.11	21.56	19.64	17.56	15.57	13.97	13.02	12.86	13.55	14.97	16.92	19.11	21.24	23.05	24.40	25.22	25.59	25.66	25.57
	1.30	1.29	1.29	1.29	1.28	1.27	1.26	1.24	1.21	1.19	1.17	1.16	1.16	1.17	1.19	1.22	1.26	1.29	1.31	1.33	1.33	1.33	1.32	1.31
	.79	.79	.78	.78	.78	.79	.80	.82	.83	.84	.85	.85	.84	.83	.82	.81	.80	.79	.79	.79	.80	.80	.80	.80
25-35S 04	17.46	17.51	17.04	16.12	14.88	13.49	12.11	10.90	9.94	9.26	8.84	8.61	8.51	8.48	8.53	8.70	9.05	9.65	10.55	11.73	13.11	14.54	15.86	16.88
	1.25	1.25	1.24	1.23	1.21	1.19	1.17	1.15	1.13	1.12	1.11	1.10	1.10	1.10	1.10	1.10	1.11	1.12	1.14	1.16	1.18	1.21	1.23	1.24
	.80	.80	.81	.82	.84	.85	.87	.88	.88	.89	.89	.88	.88	.88	.88	.88	.88	.88	.87	.86	.85	.83	.82	.81
35-45S 04	12.89	13.07	13.16	13.15	13.01	12.72	12.32	11.81	11.25	10.69	10.19	9.78	9.53	9.42	9.47	9.65	9.95	10.34	10.77	11.22	11.65	12.03	12.37	12.66
	1.17	1.17	1.17	1.17	1.18	1.18	1.17	1.16	1.15	1.14	1.13	1.12	1.12	1.11	1.11	1.11	1.12	1.13	1.13	1.14	1.15	1.15	1.16	1.16
	.84	.85	.85	.85	.85	.86	.86	.87	.87	.87	.88	.88	.88	.88	.88	.88	.87	.87	.86	.86	.85	.85	.85	.84
45-55S 04	15.69	15.64	15.46	15.17	14.77	14.29	13.73	13.09	12.42	11.73	11.08	10.52	10.12	9.93	9.97	10.27	10.80	11.53	12.38	13.25	14.07	14.75	15.25	15.57
	1.19	1.20	1.19	1.19	1.18	1.17	1.16	1.15	1.14	1.13	1.11	1.10	1.10	1.10	1.10	1.10	1.11	1.12	1.14	1.15	1.17	1.18	1.19	1.19
	.81	.81	.81	.81	.81	.82	.82	.83	.84	.86	.87	.88	.88	.88	.88	.88	.87	.86	.85	.84	.83	.82	.82	.81
55-65S 04	18.25	19.45	20.32	20.74	20.66	20.11	19.21	18.09	16.94	15.89	15.01	14.34	13.85	13.47	13.15	12.88	12.65	12.52	12.56	12.85	13.44	14.35	15.53	16.88
	1.22	1.24	1.26	1.27	1.27	1.26	1.24	1.22	1.19	1.17	1.14	1.13	1.12	1.11	1.11	1.11	1.12	1.12	1.13	1.14	1.15	1.16	1.18	1.20
	.79	.77	.77	.76	.77	.77	.78	.78	.79	.79	.80	.80	.80	.80	.81	.82	.82	.83	.83	.83	.83	.82	.81	.80

MONTH	00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23	
55-65N 11	19.12	18.94	19.10	19.48	19.83	19.92	19.52	18.54	17.07	15.28	13.52	12.12	11.37	11.46	12.39	13.99	15.97	17.95	19.60	20.68	21.07	20.88	20.31	19.64	
	1.25	1.25	1.24	1.25	1.26	1.26	1.26	1.25	1.23	1.21	1.18	1.17	1.16	1.15	1.17	1.20	1.23	1.26	1.28	1.30	1.31	1.30	1.28	1.27	
	.81	.80	.80	.79	.78	.78	.78	.79	.81	.83	.85	.86	.86	.87	.86	.85	.83	.82	.81	.80	.79	.80	.80	.81	
45-55N 11	16.31	16.11	16.01	15.94	15.78	15.44	14.84	13.98	12.92	11.83	10.88	10.23	10.04	10.36	11.16	12.31	13.63	14.92	16.00	16.75	17.11	17.13	16.92	16.60	
	1.22	1.21	1.21	1.21	1.20	1.20	1.19	1.18	1.16	1.15	1.13	1.12	1.12	1.13	1.14	1.16	1.18	1.20	1.22	1.23	1.24	1.24	1.23	1.23	
	.81	.82	.82	.82	.81	.82	.83	.84	.85	.86	.87	.88	.88	.88	.87	.86	.85	.84	.83	.82	.82	.82	.82	.82	
35-45N 11	12.69	12.09	11.88	12.01	12.33	12.67	12.84	12.74	12.35	11.75	11.12	10.64	10.49	10.80	11.58	12.73	14.04	15.27	16.17	16.56	16.38	15.71	14.70	13.62	
	1.18	1.17	1.16	1.16	1.17	1.17	1.18	1.17	1.16	1.16	1.15	1.15	1.14	1.15	1.16	1.18	1.19	1.21	1.22	1.23	1.22	1.21	1.20	1.19	
	.87	.87	.87	.87	.86	.86	.85	.86	.86	.87	.87	.87	.88	.87	.87	.86	.85	.84	.84	.83	.84	.84	.85	.86	
25-35N																									
15-25N 11	29.33	31.27	32.53	32.64	31.32	28.55	24.65	20.18	15.83	12.25	9.93	9.09	9.68	11.40	13.78	16.33	18.63	20.42	21.66	22.49	23.20	24.11	25.45	27.24	
	1.40	1.42	1.43	1.43	1.41	1.37	1.31	1.26	1.20	1.15	1.12	1.12	1.13	1.16	1.20	1.24	1.28	1.31	1.34	1.35	1.36	1.36	1.37	1.39	
	.73	.73	.73	.75	.78	.80	.83	.86	.88	.89	.89	.88	.87	.85	.84	.82	.81	.80	.79	.78	.77	.76	.75	.73	
5-15N																									
5N-5S 05	0.00	0.00	21.80	20.67	23.28	26.63	10.50	7.08	6.85	7.78	9.98	11.77	12.15	11.80	13.35	14.03	12.95	13.42	12.87	13.37	13.30	15.35	0.00	0.00	
	0.00	0.00	1.30	1.28	1.29	1.35	1.14	1.09	1.08	1.08	1.10	1.17	1.18	1.17	1.21	1.22	1.18	1.18	1.16	1.19	1.17	1.22	0.00	0.00	
	0.00	0.00	.76	.78	.73	.73	.92	.93	.92	.90	.86	.86	.87	.87	.88	.87	.84	.85	.84	.85	.85	.81	0.00	0.00	
5-15S 05	24.85	25.46	25.41	24.68	23.34	21.53	19.46	17.35	15.41	13.79	12.57	11.77	11.35	11.24	11.41	11.83	12.53	13.52	14.83	16.44	18.26	20.19	22.05	23.65	
	1.30	1.32	1.34	1.34	1.33	1.31	1.28	1.24	1.22	1.19	1.17	1.16	1.15	1.14	1.13	1.12	1.11	1.10	1.11	1.12	1.14	1.18	1.22	1.26	
	.69	.70	.71	.72	.73	.75	.77	.79	.81	.83	.84	.85	.85	.84	.83	.81	.79	.77	.75	.73	.71	.70	.69	.69	
15-25S 05	18.12	17.66	17.23	16.87	16.58	16.37	16.23	16.14	16.10	16.10	16.16	16.29	16.50	16.79	17.16	17.58	18.04	18.47	18.84	19.10	19.21	19.14	18.92	18.56	
	1.23	1.23	1.24	1.24	1.24	1.23	1.23	1.23	1.22	1.22	1.22	1.22	1.22	1.23	1.24	1.25	1.26	1.27	1.27	<del>1.26</del>	<del>1.26</del>	1.25	1.25	1.24	1.24
	.78	.80	.81	.82	.83	.83	.83	.82	.81	.81	.80	.80	.80	.80	.80	.80	.80	.80	.80	.79	.78	.77	.77	.77	
25-35S 05	16.30	15.34	14.29	13.30	12.47	11.84	11.40	11.09	10.85	10.62	10.39	10.17	10.04	10.08	10.37	10.98	11.90	13.07	14.36	15.59	16.58	17.20	17.34	17.02	
	1.21	1.20	1.19	1.18	1.17	1.16	1.15	1.15	1.14	1.14	1.13	1.13	1.13	1.13	1.13	1.14	1.15	1.16	1.18	1.20	1.21	1.22	1.22	1.22	
	.85	.85	.86	.86	.86	.86	.87	.87	.87	.88	.88	.88	.88	.88	.87	.87	.86	.85	.84	.84	.84	.84	.84	.84	
35-45S 05	13.70	13.46	13.24	13.05	12.86	12.64	12.33	11.95	11.50	11.02	10.60	10.30	10.17	10.26	10.57	11.08	11.73	12.43	13.09	13.63	13.99	14.14	14.11	13.94	
	1.17	1.17	1.16	1.15	1.15	1.16	1.16	1.15	1.15	1.15	1.14	1.14	1.13	1.13	1.13	1.13	1.14	1.15	1.16	1.17	1.18	1.18	1.18	1.17	
	.85	.85	.85	.84	.84	.84	.84	.85	.86	.87	.88	.88	.88	.88	.87	.87	.86	.86	.85	.85	.85	.85	.85	.85	
45-55S 05	15.28	15.19	15.06	14.83	14.47	13.94	13.25	12.42	11.53	10.71	10.03	9.62	9.50	9.71	10.22	10.96	11.85	12.78	13.64	14.35	14.87	15.17	15.32	15.34	
	1.20	1.19	1.18	1.18	1.17	1.17	1.16	1.15	1.15	1.14	1.14	1.13	1.13	1.13	1.13	1.14	1.16	1.17	1.18	1.20	1.21	1.21	1.21	1.20	
	.82	.82	.81	.81	.81	.82	.83	.84	.85	.87	.88	.88	.88	.88	.87	.87	.86	.85	.84	.84	.84	.84	.83	.83	
55-65S 05	20.54	21.69	22.42	22.58	22.07	20.92	19.23	17.23	15.16	13.27	11.77	10.75	10.22	10.13	10.37	10.83	11.44	12.15	12.97	13.92	15.02	16.28	17.68	19.14	
	1.30	1.32	1.34	1.34	1.33	1.31	1.28	1.24	1.20	1.16	1.13	1.11	1.10	1.10	1.10	1.11	1.12	1.14	1.15	1.17	1.19	1.22	1.24	1.27	
	.80	.80	.80	.80	.80	.81	.81	.82	.84	.85	.86	.87	.87	.87	.87	.86	.85	.84	.83	.82	.81	.81	.80	.80	

MONTH	00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23
55-65N 12	20.05	20.67	21.16	21.35	21.09	20.30	19.00	17.28	15.35	13.48	11.92	10.88	10.48	10.73	11.50	12.62	13.89	15.13	16.20	17.05	17.72	18.28	18.82	19.40
	1.26	1.28	1.29	1.30	1.30	1.29	1.28	1.25	1.22	1.18	1.16	1.14	1.13	1.14	1.15	1.17	1.19	1.21	1.22	1.23	1.24	1.24	1.24	1.25
	.81	.80	.79	.79	.80	.81	.82	.83	.85	.86	.87	.88	.88	.88	.87	.86	.86	.85	.84	.84	.83	.83	.82	.81
45-55N 12	17.50	17.30	17.03	16.67	16.17	15.51	14.67	13.67	12.61	11.59	10.74	10.17	9.99	10.24	10.87	11.84	13.00	14.23	15.37	16.32	17.02	17.44	17.63	17.62
	1.23	1.23	1.23	1.22	1.22	1.21	1.20	1.18	1.17	1.15	1.14	1.13	1.13	1.13	1.14	1.16	1.18	1.19	1.21	1.22	1.23	1.24	1.24	1.23
	.81	.80	.80	.81	.81	.82	.83	.84	.86	.87	.88	.88	.89	.89	.88	.88	.87	.86	.84	.84	.83	.82	.82	.81
35-45N 12	12.61	12.41	12.57	12.99	13.47	13.81	13.86	13.54	12.88	12.01	11.14	10.51	10.29	10.58	11.36	12.48	13.72	14.81	15.54	15.77	15.50	14.84	13.99	13.18
	1.17	1.17	1.17	1.18	1.18	1.19	1.19	1.19	1.18	1.17	1.16	1.15	1.14	1.14	1.15	1.17	1.18	1.19	1.21	1.21	1.21	1.20	1.19	1.18
	.87	.87	.86	.86	.85	.85	.84	.85	.86	.87	.88	.88	.89	.88	.88	.87	.86	.85	.84	.84	.84	.85	.86	.86
25-35N																								
15-25N 12	30.42	31.87	32.51	32.04	30.37	27.63	24.19	20.55	17.24	14.73	13.30	13.02	13.74	15.14	16.85	18.54	19.97	21.09	21.95	22.76	23.72	25.01	26.66	28.55
	1.45	1.48	1.50	1.50	1.47	1.43	1.37	1.31	1.25	1.20	1.17	1.17	1.18	1.21	1.24	1.27	1.30	1.32	1.33	1.33	1.34	1.36	1.38	1.41
	.75	.74	.74	.75	.77	.78	.80	.82	.84	.84	.84	.84	.83	.82	.81	.81	.80	.80	.80	.80	.79	.78	.77	.76
5-15N																								
5N-5S 06	0.00	0.00	0.00	0.00	22.58	25.90	9.48	6.35	6.10	6.98	10.18	12.32	12.97	13.30	13.00	12.15	11.02	10.57	11.47	11.68	13.07	15.60	0.00	0.00
	0.00	0.00	0.00	0.00	1.25	1.35	1.12	1.08	1.08	1.07	1.09	1.12	1.16	1.21	1.20	1.18	1.16	1.13	1.15	1.14	1.17	1.25	0.00	0.00
	0.00	0.00	0.00	0.00	.63	.70	.89	.92	.93	.90	.82	.80	.83	.86	.85	.85	.87	.86	.86	.84	.84	.81	0.00	0.00
5-15S 06	24.03	25.08	25.58	25.37	24.43	22.83	20.77	18.52	16.36	14.54	13.23	12.48	12.24	12.38	12.78	13.33	13.98	14.73	15.61	16.67	17.95	19.42	21.01	22.60
	1.30	1.32	1.33	1.33	1.33	1.31	1.29	1.26	1.23	1.21	1.19	1.17	1.17	1.17	1.17	1.17	1.18	1.18	1.19	1.21	1.22	1.24	1.26	1.28
	.68	.68	.69	.70	.72	.75	.78	.80	.83	.84	.85	.85	.85	.84	.83	.82	.81	.80	.79	.77	.75	.73	.71	.69
15-25S 06	16.86	16.38	15.85	15.36	14.96	14.69	14.55	14.54	14.61	14.71	14.82	14.89	14.92	14.92	14.94	15.01	15.19	15.51	15.94	16.43	16.88	17.20	17.31	17.19
	1.26	1.25	1.24	1.22	1.21	1.20	1.20	1.20	1.20	1.21	1.21	1.22	1.22	1.22	1.22	1.22	1.22	1.22	1.22	1.23	1.24	1.25	1.26	1.27
	.86	.87	.87	.86	.86	.86	.85	.85	.85	.86	.86	.86	.86	.86	.85	.85	.84	.83	.83	.83	.83	.84	.85	.85
25-35S 06	14.23	14.22	14.21	14.16	14.01	13.72	13.26	12.67	12.01	11.37	10.84	10.50	10.41	10.59	11.00	11.59	12.27	12.95	13.53	13.97	14.23	14.33	14.33	14.28
	1.19	1.19	1.20	1.20	1.20	1.20	1.19	1.19	1.18	1.17	1.16	1.15	1.15	1.14	1.15	1.15	1.16	1.17	1.18	1.19	1.19	1.20	1.20	1.20
	.85	.85	.85	.86	.86	.86	.87	.88	.89	.89	.89	.90	.89	.89	.88	.88	.87	.86	.86	.86	.86	.85	.85	.85
35-45S 06	14.45	14.39	14.30	14.14	13.89	13.51	12.98	12.34	11.64	10.96	10.40	10.03	9.92	10.08	10.49	11.09	11.81	12.55	13.23	13.77	14.17	14.39	14.49	14.49
	1.19	1.19	1.19	1.19	1.19	1.18	1.18	1.17	1.16	1.15	1.15	1.15	1.14	1.15	1.15	1.16	1.17	1.18	1.18	1.19	1.19	1.19	1.19	1.19
	.85	.85	.84	.84	.84	.85	.85	.86	.87	.88	.89	.89	.90	.89	.89	.88	.88	.87	.87	.87	.86	.86	.86	.85
45-55S 06	15.14	15.14	15.04	14.82	14.43	13.86	13.13	12.25	11.31	10.41	9.64	9.10	8.84	8.89	9.25	9.86	10.66	11.55	12.44	13.27	13.95	14.48	14.84	15.05
	1.18	1.18	1.18	1.17	1.18	1.17	1.17	1.16	1.15	1.14	1.13	1.13	1.12	1.12	1.12	1.13	1.14	1.16	1.17	1.18	1.18	1.19	1.19	1.19
	.82	.81	.81	.81	.81	.83	.84	.85	.87	.88	.89	.89	.90	.89	.89	.88	.88	.87	.87	.86	.85	.84	.83	.82
55-65S 06	21.87	23.33	24.24	24.45	23.85	22.49	20.52	18.18	15.78	13.59	11.83	10.61	9.94	9.75	9.94	10.37	10.97	11.70	12.58	13.64	14.95	16.50	18.25	20.10
	1.32	1.35	1.36	1.37	1.36	1.34	1.31	1.27	1.22	1.18	1.15	1.13	1.12	1.11	1.12	1.13	1.14	1.15	1.17	1.19	1.21	1.23	1.26	1.29
	.80	.78	.78	.78	.78	.79	.80	.82	.84	.85	.87	.88	.88	.89	.89	.88	.88	.87	.86	.86	.85	.83	.82	.81

\*\*\*\*\* QUIET MAGNETIC - HIGH SOLAR \*\*\*\*\*

MONTH	00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23
55-65N 01	17.95	17.82	17.89	18.06	18.15	17.98	17.38	16.29	14.80	13.08	11.41	10.07	9.33	9.33	10.09	11.48	13.25	15.12	16.76	17.99	18.66	18.83	18.63	18.27
	1.25	1.25	1.25	1.25	1.25	1.25	1.24	1.23	1.21	1.17	1.15	1.13	1.11	1.11	1.12	1.15	1.17	1.20	1.23	1.25	1.26	1.27	1.27	1.26
	.83	.83	.84	.84	.84	.84	.84	.85	.85	.86	.87	.87	.88	.88	.87	.86	.84	.82	.81	.80	.80	.80	.81	.82
45-55N 01	16.19	15.65	15.12	14.63	14.18	13.71	13.16	12.49	11.69	10.80	9.93	9.19	8.73	8.68	9.08	9.95	11.17	12.60	14.04	15.30	16.23	16.75	16.86	16.63
	1.23	1.22	1.21	1.20	1.19	1.18	1.17	1.16	1.15	1.13	1.13	1.11	1.11	1.11	1.11	1.13	1.15	1.16	1.19	1.21	1.23	1.23	1.24	1.23
	.82	.83	.83	.83	.84	.84	.84	.85	.86	.87	.88	.88	.89	.89	.89	.88	.86	.85	.84	.83	.82	.82	.82	.82
35-45N 01	15.25	14.93	14.68	14.49	14.29	13.98	13.49	12.78	11.85	10.82	9.81	9.00	8.54	8.52	8.99	9.89	11.10	12.45	13.74	14.79	15.50	15.83	15.83	15.59
	1.23	1.22	1.22	1.21	1.20	1.20	1.19	1.17	1.16	1.14	1.13	1.12	1.11	1.11	1.11	1.13	1.15	1.17	1.19	1.21	1.23	1.24	1.24	1.24
	.86	.87	.87	.86	.86	.86	.86	.86	.86	.87	.88	.89	.89	.90	.89	.88	.87	.86	.85	.84	.84	.85	.85	.86
25-35N																								
15-25N 01	27.13	28.01	28.55	28.47	27.56	25.72	23.07	19.88	16.54	13.52	11.20	9.85	9.57	10.29	11.80	13.83	16.07	18.25	20.19	21.79	23.09	24.16	25.14	26.13
	1.39	1.40	1.41	1.41	1.40	1.38	1.34	1.29	1.24	1.19	1.15	1.13	1.13	1.14	1.17	1.21	1.25	1.28	1.32	1.34	1.35	1.36	1.37	1.38
	.73	.72	.72	.73	.74	.76	.79	.82	.84	.86	.88	.88	.88	.87	.86	.85	.83	.82	.81	.79	.78	.77	.75	.74
5-15N																								
5N-5S 07	0.00	0.00	13.90	14.82	17.82	24.87	12.88	7.07	5.63	6.62	9.83	12.15	13.03	12.95	12.28	11.90	10.75	9.78	10.83	13.63	16.07	14.30	0.00	0.00
	0.00	0.00	1.19	1.16	1.18	1.31	1.19	1.09	1.07	1.07	1.09	1.14	1.19	1.20	1.17	1.19	1.16	1.13	1.13	1.18	1.21	1.24	0.00	0.00
	0.00	0.00	.81	.79	.75	.66	.85	.93	.93	.91	.84	.84	.86	.87	.87	.88	.87	.87	.85	.81	.80	.89	0.00	0.00
5-15S 07	14.53	17.68	20.48	22.45	23.26	22.82	21.28	19.00	16.43	13.99	11.97	10.52	9.61	9.13	8.90	8.80	8.76	8.80	9.00	9.49	10.39	11.75	13.57	15.74
	.91	1.02	1.13	1.23	1.28	1.30	1.29	1.26	1.21	1.17	1.14	1.13	1.12	1.12	1.11	1.11	1.10	1.10	1.10	1.10	1.11	1.12	1.14	1.17
	.56	.59	.63	.67	.71	.74	.76	.78	.80	.82	.84	.86	.87	.88	.88	.87	.87	.87	.86	.86	.85	.84	.82	.79
15-25S 07	16.10	16.07	15.86	15.44	14.83	14.09	13.30	12.56	11.98	11.61	11.49	11.60	11.90	12.33	12.81	13.29	13.74	14.14	14.51	14.84	15.16	15.47	15.75	15.97
	1.20	1.20	1.20	1.19	1.18	1.17	1.16	1.16	1.15	1.15	1.16	1.17	1.18	1.19	1.19	1.20	1.20	1.21	1.20	1.20	1.20	1.20	1.20	1.20
	.84	.84	.83	.83	.83	.83	.83	.84	.85	.86	.88	.88	.89	.88	.87	.86	.85	.84	.84	.83	.83	.83	.84	.84
25-35S 07	14.24	13.54	12.70	11.85	11.11	10.54	10.16	9.94	9.81	9.69	9.53	9.32	9.10	8.94	8.94	9.20	9.75	10.57	11.59	12.67	13.64	14.35	14.71	14.66
	1.19	1.18	1.17	1.15	1.14	1.13	1.12	1.12	1.12	1.12	1.12	1.12	1.12	1.11	1.11	1.12	1.13	1.14	1.15	1.17	1.18	1.19	1.20	1.20
	.84	.84	.85	.86	.86	.86	.87	.87	.87	.88	.88	.88	.89	.89	.89	.89	.88	.87	.86	.85	.84	.84	.83	.83
35-45S 07	12.57	12.45	12.26	12.00	11.69	11.37	11.03	10.70	10.35	10.03	9.70	9.44	9.22	9.11	9.11	9.26	9.55	9.98	10.51	11.07	11.60	12.06	12.38	12.55
	1.17	1.17	1.16	1.16	1.16	1.16	1.15	1.15	1.15	1.14	1.14	1.14	1.13	1.13	1.13	1.13	1.13	1.13	1.14	1.15	1.16	1.16	1.17	1.17
	.85	.85	.85	.85	.86	.87	.87	.88	.88	.89	.89	.89	.90	.90	.90	.89	.89	.89	.88	.88	.87	.86	.85	.85
45-55S 07	12.50	12.48	12.46	12.41	12.27	11.98	11.53	10.91	10.17	9.39	8.68	8.12	7.81	7.78	8.05	8.58	9.28	10.07	10.84	11.50	12.00	12.31	12.47	12.51
	1.17	1.17	1.16	1.16	1.16	1.16	1.16	1.15	1.14	1.13	1.12	1.11	1.11	1.11	1.12	1.12	1.14	1.15	1.16	1.17	1.18	1.18	1.17	1.17
	.85	.85	.85	.86	.86	.87	.87	.88	.89	.90	.91	.91	.91	.90	.90	.90	.89	.88	.87	.87	.86	.86	.86	.85
55-65S 07	15.82	16.43	16.64	16.39	15.71	14.67	13.41	12.09	10.85	9.81	9.04	8.55	8.30	8.25	8.34	8.55	8.86	9.29	9.88	10.64	11.58	12.66	13.80	14.90
	1.22	1.23	1.23	1.22	1.21	1.19	1.18	1.16	1.15	1.14	1.13	1.12	1.12	1.12	1.12	1.12	1.12	1.12	1.12	1.13	1.14	1.16	1.18	1.20
	.82	.81	.80	.80	.81	.82	.84	.86	.88	.89	.91	.91	.92	.91	.91	.90	.89	.89	.88	.88	.87	.86	.85	.83

MONTH	00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23
55-65N 02	20.20	20.18	20.02	19.76	19.42	18.98	18.37	17.56	16.50	15.24	13.87	12.51	11.35	10.54	10.24	10.50	11.31	12.57	14.12	15.74	17.27	18.53	19.44	19.98
	1.27	1.27	1.27	1.27	1.26	1.26	1.24	1.23	1.20	1.18	1.16	1.14	1.12	1.11	1.11	1.12	1.13	1.15	1.17	1.20	1.22	1.24	1.26	1.27
	.77	.77	.78	.78	.79	.79	.79	.79	.79	.80	.81	.82	.83	.84	.85	.86	.85	.84	.82	.81	.79	.78	.77	.76
45-55N 02	16.98	16.97	16.84	16.61	16.26	15.77	15.08	14.19	13.11	11.91	10.69	9.59	8.75	8.29	8.28	8.73	9.60	10.79	12.14	13.50	14.72	15.70	16.40	16.81
	1.24	1.23	1.23	1.22	1.22	1.21	1.20	1.18	1.16	1.14	1.12	1.11	1.10	1.09	1.09	1.10	1.12	1.13	1.16	1.18	1.20	1.22	1.23	1.23
	.81	.80	.81	.81	.82	.82	.83	.84	.85	.86	.87	.88	.89	.90	.90	.89	.88	.87	.86	.84	.83	.82	.81	.81
35-45N 02	15.62	15.27	14.90	14.55	14.19	13.75	13.15	12.34	11.30	10.12	8.92	7.87	7.14	6.86	7.10	7.86	9.05	10.52	12.08	13.52	14.69	15.47	15.84	15.86
	1.22	1.21	1.20	1.20	1.19	1.18	1.17	1.16	1.15	1.13	1.11	1.10	1.08	1.08	1.08	1.09	1.11	1.13	1.15	1.18	1.20	1.21	1.22	1.23
	.83	.83	.83	.83	.83	.84	.84	.85	.86	.88	.89	.90	.91	.90	.90	.89	.87	.86	.85	.84	.83	.83	.83	.83
25-35N																								
15-25N 02	31.22	32.43	32.88	32.34	30.69	27.94	24.31	20.17	15.99	12.27	9.40	7.61	6.99	7.43	8.74	10.66	12.97	15.45	17.98	20.48	22.90	25.23	27.45	29.48
	1.49	1.50	1.49	1.47	1.43	1.38	1.33	1.27	1.22	1.17	1.13	1.10	1.09	1.09	1.11	1.13	1.17	1.21	1.26	1.31	1.36	1.41	1.44	1.47
	.73	.72	.71	.72	.73	.76	.79	.83	.87	.89	.91	.91	.91	.89	.87	.85	.83	.81	.80	.79	.78	.77	.75	.74
5-15N																								
5N-5S 08	17.82	18.50	18.78	18.53	17.71	16.41	14.79	13.12	11.66	10.61	10.09	10.09	10.49	11.13	11.82	12.43	12.89	13.23	13.53	13.89	14.39	15.09	15.96	16.91
	1.26	1.26	1.25	1.24	1.22	1.21	1.18	1.17	1.15	1.14	1.13	1.14	1.14	1.16	1.17	1.18	1.19	1.20	1.21	1.22	1.23	1.24	1.25	1.26
	.81	.79	.78	.78	.78	.80	.82	.84	.86	.88	.88	.88	.88	.87	.86	.86	.86	.86	.87	.87	.87	.86	.85	.83
5-15S 08	13.50	19.13	20.97	22.43	27.67	32.10	33.57	14.77	9.90	8.60	9.60	9.50	9.40	17.03	7.73	6.33	7.15	7.50	7.87	8.85	0.00	0.00	0.00	0.00
	1.07	1.19	1.27	1.32	1.37	1.50	1.45	1.23	1.16	1.08	1.10	1.09	1.09	1.18	1.07	1.07	1.05	1.06	1.05	1.09	0.00	0.00	0.00	0.00
	.75	.70	.73	.72	.68	.70	.72	.83	.90	.88	.86	.84	.86	.89	.91	.91	.88	.86	.84	.84	0.00	0.00	0.00	0.00
15-25S 08	17.79	17.81	17.87	17.93	17.91	17.74	17.36	16.78	16.04	15.24	14.51	13.94	13.63	13.62	13.91	14.45	15.15	15.91	16.62	17.20	17.59	17.79	17.84	17.82
	1.25	1.25	1.26	1.26	1.27	1.27	1.26	1.25	1.23	1.21	1.19	1.18	1.17	1.18	1.19	1.20	1.22	1.24	1.25	1.26	1.26	1.26	1.25	1.25
	.81	.81	.81	.82	.82	.83	.84	.84	.84	.85	.84	.84	.84	.83	.83	.83	.82	.82	.82	.82	.82	.81	.81	.81
25-35S 08	18.87	18.77	18.26	17.42	16.34	15.14	13.92	12.75	11.70	10.79	10.04	9.47	9.08	8.90	8.98	9.34	10.02	11.02	12.28	13.73	15.22	16.60	17.75	18.53
	1.24	1.25	1.24	1.24	1.22	1.21	1.19	1.17	1.16	1.14	1.13	1.12	1.11	1.11	1.12	1.12	1.13	1.15	1.16	1.18	1.20	1.21	1.23	1.24
	.77	.77	.78	.79	.81	.82	.84	.85	.86	.87	.88	.88	.88	.89	.89	.88	.87	.86	.84	.82	.80	.79	.77	.77
35-45S 08	15.21	15.17	14.99	14.72	14.38	13.97	13.47	12.86	12.17	11.41	10.62	9.89	9.30	8.92	8.81	9.01	9.52	10.28	11.23	12.26	13.24	14.08	14.70	15.07
	1.20	1.21	1.20	1.20	1.19	1.19	1.18	1.17	1.16	1.15	1.14	1.13	1.13	1.12	1.12	1.13	1.13	1.14	1.15	1.17	1.18	1.19	1.20	1.20
	.82	.82	.82	.82	.83	.83	.84	.85	.86	.87	.88	.88	.89	.90	.90	.89	.88	.88	.86	.85	.84	.82	.82	.82
45-55S 08	14.66	14.51	14.25	13.94	13.59	13.18	12.70	12.14	11.47	10.72	9.95	9.22	8.64	8.28	8.23	8.51	9.11	9.97	11.00	12.07	13.05	13.84	14.37	14.63
	1.19	1.18	1.18	1.18	1.17	1.17	1.16	1.16	1.15	1.14	1.13	1.12	1.11	1.11	1.11	1.11	1.12	1.13	1.14	1.16	1.17	1.18	1.19	1.19
	.82	.82	.83	.83	.84	.84	.85	.86	.86	.87	.88	.88	.89	.89	.89	.89	.88	.88	.87	.85	.84	.83	.82	.82
55-65S 08	17.39	17.91	18.20	18.23	17.97	17.41	16.55	15.45	14.20	12.91	11.70	10.67	9.93	9.51	9.43	9.68	10.20	10.94	11.85	12.85	13.88	14.90	15.85	16.69
	1.21	1.22	1.23	1.23	1.23	1.22	1.21	1.19	1.17	1.15	1.13	1.12	1.11	1.11	1.11	1.11	1.12	1.13	1.14	1.15	1.16	1.17	1.19	1.20
	.78	.77	.77	.77	.77	.78	.79	.80	.81	.82	.84	.85	.86	.86	.87	.87	.87	.86	.85	.84	.82	.81	.80	.78

MONTH	00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23
55-65N 03	13.43	13.92	14.26	14.44	14.43	14.20	13.70	12.90	11.81	10.50	9.08	7.69	6.48	5.57	5.08	5.03	5.42	6.20	7.25	8.46	9.70	10.88	11.91	12.76
	1.17	1.17	1.17	1.18	1.18	1.18	1.17	1.16	1.15	1.13	1.10	1.08	1.06	1.04	1.04	1.03	1.04	1.05	1.07	1.09	1.11	1.13	1.15	1.16
	.83	.83	.83	.83	.83	.83	.84	.84	.85	.87	.88	.90	.91	.93	.93	.93	.93	.92	.90	.89	.87	.85	.84	.84
45-55N 03	11.03	11.54	11.94	12.18	12.24	12.08	11.69	11.12	10.39	9.59	8.78	8.05	7.45	7.02	6.78	6.74	6.86	7.14	7.54	8.03	8.59	9.20	9.83	10.45
	1.15	1.16	1.16	1.16	1.15	1.14	1.13	1.12	1.11	1.09	1.08	1.07	1.05	1.05	1.05	1.05	1.05	1.06	1.07	1.09	1.10	1.12	1.13	1.14
	.87	.86	.86	.85	.85	.85	.86	.87	.88	.89	.90	.91	.92	.93	.93	.93	.93	.93	.92	.91	.90	.90	.89	.88
35-45N 03	13.65	13.82	13.64	13.13	12.33	11.31	10.14	8.90	7.68	6.59	5.69	5.04	4.67	4.58	4.76	5.19	5.85	6.71	7.73	8.89	10.10	11.28	12.32	13.14
	1.20	1.20	1.20	1.18	1.17	1.15	1.13	1.12	1.10	1.08	1.07	1.06	1.05	1.04	1.04	1.04	1.05	1.06	1.08	1.10	1.13	1.15	1.18	1.19
	.85	.84	.84	.84	.85	.86	.87	.88	.90	.91	.92	.93	.93	.93	.92	.91	.91	.90	.89	.88	.87	.87	.86	.86
25-35N																								
15-25N 03	24.33	26.73	28.68	29.77	29.64	28.14	25.33	21.53	17.25	13.05	9.50	6.95	5.60	5.38	6.10	7.46	9.13	10.88	12.57	14.19	15.81	17.57	19.57	21.85
	1.32	1.38	1.42	1.44	1.45	1.43	1.38	1.32	1.25	1.19	1.13	1.09	1.07	1.07	1.07	1.09	1.11	1.12	1.14	1.15	1.17	1.19	1.23	1.27
	.72	.71	.70	.70	.71	.73	.76	.80	.84	.88	.91	.94	.94	.94	.93	.90	.88	.85	.82	.80	.78	.76	.75	.73
5-15N																								
5N-5S 09	10.90	11.30	14.80	22.90	31.70	46.30	33.80	15.00	6.30	5.30	8.80	10.70	9.90	7.40	6.30	7.50	8.90	10.30	12.40	15.80	0.00	0.00	9.20	8.30
	1.10	1.18	1.14	1.32	1.49	1.75	1.58	1.10	1.08	1.04	1.05	1.13	1.13	1.08	1.10	1.13	1.13	1.11	1.18	1.29	0.00	0.00	1.13	1.10
	.86	.92	.76	.72	.70	.53	.91	.93	.93	.93	.87	.85	.88	.90	.93	.94	.90	.84	.87	.89	0.00	0.00	.92	.89
5-15S 09	18.16	20.52	22.14	22.73	22.14	20.46	17.94	14.97	11.99	9.36	7.35	6.04	5.40	5.29	5.56	6.06	6.72	7.51	8.48	9.69	11.19	13.01	15.08	17.28
	1.14	1.22	1.28	1.31	1.32	1.30	1.26	1.20	1.15	1.11	1.08	1.06	1.05	1.05	1.05	1.05	1.06	1.06	1.07	1.09	1.11	1.14	1.17	1.20
	.67	.68	.70	.73	.75	.77	.80	.83	.86	.88	.91	.92	.93	.93	.93	.92	.91	.89	.88	.86	.84	.82	.79	.76
15-25S 09	22.12	21.81	21.39	20.83	20.06	19.03	17.73	16.24	14.68	13.24	12.10	11.43	11.33	11.82	12.84	14.26	15.92	17.62	19.20	20.52	21.48	22.07	22.32	22.31
	1.31	1.31	1.31	1.31	1.30	1.28	1.26	1.24	1.21	1.19	1.17	1.17	1.17	1.18	1.20	1.23	1.25	1.28	1.29	1.30	1.31	1.31	1.31	1.31
	.78	.79	.80	.80	.80	.81	.82	.83	.84	.86	.87	.88	.88	.88	.87	.85	.83	.81	.79	.78	.77	.77	.77	.78
25-35S 09	12.69	13.93	14.94	15.53	15.55	14.95	13.81	12.29	10.63	9.07	7.80	6.95	6.53	6.48	6.67	6.98	7.30	7.60	7.89	8.23	8.69	9.37	10.28	11.42
	1.17	1.19	1.21	1.22	1.22	1.21	1.19	1.16	1.13	1.11	1.09	1.08	1.07	1.07	1.08	1.08	1.09	1.09	1.10	1.10	1.11	1.12	1.13	1.15
	.85	.84	.83	.83	.83	.83	.84	.86	.87	.89	.90	.91	.91	.91	.91	.91	.90	.90	.90	.89	.89	.88	.87	.86
35-45S 09	10.09	10.59	11.10	11.52	11.77	11.77	11.47	10.90	10.12	9.24	8.40	7.71	7.24	7.01	7.02	7.20	7.48	7.82	8.14	8.43	8.70	8.97	9.27	9.64
	1.14	1.15	1.16	1.17	1.16	1.16	1.16	1.14	1.13	1.12	1.11	1.10	1.09	1.09	1.09	1.10	1.10	1.11	1.11	1.12	1.12	1.13	1.13	1.13
	.88	.88	.87	.87	.86	.86	.87	.87	.88	.88	.89	.90	.90	.91	.92	.91	.91	.91	.90	.90	.90	.89	.89	.88
45-55S 09	11.41	11.70	12.02	12.34	12.60	12.77	12.79	12.61	12.23	11.66	10.98	10.25	9.58	9.04	8.70	8.56	8.64	8.90	9.26	9.69	10.12	10.50	10.84	11.13
	1.15	1.16	1.16	1.16	1.16	1.16	1.15	1.14	1.13	1.12	1.10	1.09	1.08	1.07	1.07	1.08	1.09	1.10	1.12	1.12	1.13	1.14	1.14	1.16
	.87	.87	.86	.86	.85	.85	.84	.84	.84	.84	.84	.85	.86	.87	.88	.88	.88	.89	.88	.88	.88	.88	.88	.87
55-65S 09	13.98	15.20	16.26	17.03	17.41	17.39	17.00	16.34	15.53	14.70	13.93	13.28	12.73	12.25	11.80	11.34	10.90	10.50	10.22	10.15	10.35	10.87	11.69	12.76
	1.17	1.19	1.21	1.22	1.23	1.23	1.23	1.21	1.19	1.16	1.14	1.12	1.10	1.09	1.08	1.08	1.09	1.09	1.10	1.10	1.11	1.12	1.13	1.15
	.82	.80	.79	.79	.78	.78	.79	.79	.79	.79	.79	.79	.80	.80	.80	.81	.82	.83	.84	.85	.86	.86	.84	.83

MONTH	00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23
55-65N 04	14.78	15.45	15.97	16.36	16.62	16.78	16.83	16.78	16.60	16.29	15.83	15.22	14.49	13.68	12.87	12.12	11.54	11.17	11.08	11.28	11.74	12.40	13.18	14.01
	1.16	1.18	1.19	1.20	1.21	1.22	1.22	1.22	1.21	1.20	1.19	1.17	1.15	1.15	1.13	1.12	1.11	1.11	1.11	1.11	1.11	1.12	1.13	1.15
	.78	.78	.78	.79	.79	.79	.79	.79	.78	.78	.78	.78	.79	.80	.81	.83	.83	.84	.84	.83	.82	.81	.80	.79
45-55N 04	10.32	10.72	11.25	11.89	12.60	13.35	14.07	14.66	15.07	15.25	15.18	14.87	14.35	13.71	12.98	12.27	11.59	11.00	10.53	10.18	9.96	9.86	9.89	10.04
	1.10	1.10	1.11	1.12	1.13	1.14	1.15	1.16	1.16	1.17	1.16	1.16	1.15	1.14	1.14	1.13	1.12	1.12	1.11	1.11	1.11	1.10	1.10	1.10
	.86	.85	.84	.84	.83	.82	.80	.79	.78	.78	.78	.78	.78	.80	.81	.82	.83	.85	.86	.86	.87	.87	.87	.86
35-45N 04	9.23	9.50	9.72	9.91	10.04	10.14	10.16	10.10	9.93	9.64	9.25	8.79	8.29	7.82	7.41	7.11	6.95	6.95	7.09	7.36	7.72	8.13	8.53	8.90
	1.10	1.10	1.11	1.11	1.11	1.11	1.11	1.10	1.09	1.09	1.08	1.08	1.07	1.06	1.06	1.07	1.07	1.07	1.07	1.07	1.08	1.08	1.09	1.09
	.88	.88	.87	.87	.86	.86	.86	.87	.87	.88	.90	.91	.91	.92	.93	.93	.93	.93	.92	.92	.91	.91	.90	.89
25-35N																								
15-25N 04	17.54	17.74	17.56	16.98	16.01	14.71	13.16	11.49	9.85	8.40	7.26	6.52	6.20	6.29	6.73	7.48	8.47	9.65	10.96	12.33	13.70	14.99	16.10	16.97
	1.23	1.23	1.23	1.22	1.21	1.20	1.18	1.16	1.14	1.12	1.11	1.10	1.09	1.09	1.10	1.11	1.13	1.14	1.16	1.18	1.20	1.21	1.22	1.23
	.81	.81	.80	.80	.81	.82	.84	.86	.88	.90	.92	.93	.94	.94	.93	.92	.91	.90	.88	.87	.86	.84	.83	.82
5-15N																								
5N-5S 10	14.10	14.95	15.67	16.08	16.01	15.39	14.24	12.72	11.05	9.52	8.33	7.64	7.45	7.71	8.27	8.97	9.68	10.30	10.82	11.25	11.64	12.07	12.61	13.29
	1.19	1.20	1.20	1.21	1.21	1.20	1.18	1.16	1.14	1.12	1.11	1.10	1.10	1.11	1.12	1.13	1.14	1.14	1.15	1.16	1.16	1.17	1.17	1.18
	.82	.82	.81	.82	.82	.84	.86	.88	.90	.91	.92	.92	.92	.92	.91	.90	.89	.88	.88	.87	.86	.85	.84	.83
5-15S 10	14.96	16.40	17.35	17.63	17.20	16.08	14.42	12.44	10.41	8.56	7.05	5.98	5.32	5.03	4.99	5.13	5.39	5.80	6.38	7.21	8.33	9.76	11.44	13.23
	1.16	1.19	1.21	1.22	1.22	1.21	1.19	1.16	1.13	1.11	1.09	1.07	1.07	1.06	1.06	1.06	1.06	1.06	1.06	1.06	1.07	1.08	1.10	1.13
	.79	.78	.77	.77	.78	.80	.82	.84	.87	.89	.92	.93	.94	.95	.95	.95	.94	.93	.91	.89	.87	.85	.83	.81
15-25S 10	14.69	15.15	15.47	15.54	15.29	14.66	13.66	12.39	10.99	9.62	8.47	7.65	7.26	7.29	7.70	8.38	9.23	10.14	11.01	11.79	12.47	13.07	13.62	14.16
	1.19	1.20	1.20	1.20	1.19	1.19	1.17	1.16	1.14	1.12	1.11	1.10	1.09	1.09	1.10	1.11	1.12	1.14	1.15	1.16	1.17	1.18	1.19	1.19
	.83	.83	.82	.81	.81	.81	.82	.84	.86	.88	.90	.91	.91	.91	.90	.89	.88	.87	.86	.86	.86	.85	.85	.84
25-35S 10	10.30	10.81	11.22	11.50	11.63	11.59	11.41	11.12	10.74	10.33	9.90	9.48	9.08	8.72	8.39	8.13	7.96	7.88	7.91	8.07	8.35	8.74	9.22	9.75
	1.12	1.14	1.15	1.15	1.15	1.14	1.13	1.11	1.10	1.08	1.07	1.07	1.07	1.07	1.07	1.07	1.07	1.07	1.07	1.08	1.08	1.09	1.10	1.11
	.87	.87	.87	.87	.87	.86	.86	.86	.85	.85	.85	.86	.86	.87	.88	.88	.89	.89	.89	.89	.88	.88	.87	.87
35-45S 10	9.49	9.90	10.39	10.92	11.43	11.88	12.21	12.38	12.36	12.18	11.84	11.40	10.91	10.43	10.00	9.62	9.32	9.09	8.93	8.83	8.80	8.84	8.96	9.18
	1.11	1.12	1.12	1.13	1.13	1.13	1.13	1.12	1.11	1.10	1.09	1.09	1.09	1.09	1.09	1.10	1.10	1.10	1.10	1.10	1.10	1.10	1.10	1.10
	.89	.88	.88	.87	.85	.84	.84	.83	.82	.82	.83	.83	.84	.85	.86	.87	.88	.88	.89	.89	.90	.90	.89	.89
45-55S 10	11.12	11.33	11.67	12.14	12.74	13.42	14.10	14.70	15.15	15.38	15.37	15.14	14.73	14.18	13.59	13.01	12.49	12.05	11.69	11.43	11.23	11.10	11.03	11.03
	1.13	1.13	1.14	1.14	1.15	1.16	1.16	1.16	1.16	1.15	1.14	1.13	1.12	1.11	1.11	1.11	1.11	1.11	1.11	1.12	1.12	1.12	1.12	1.12
	.86	.86	.85	.85	.84	.83	.82	.80	.79	.77	.76	.76	.75	.76	.77	.78	.79	.81	.83	.84	.85	.86	.86	.86
55-65S 10	13.89	14.87	15.75	16.45	16.94	17.23	17.36	17.39	17.33	17.22	17.02	16.72	16.28	15.68	14.92	14.06	13.16	12.31	11.64	11.23	11.16	11.44	12.05	12.90
	1.14	1.15	1.16	1.17	1.18	1.20	1.21	1.23	1.24	1.24	1.24	1.23	1.22	1.20	1.18	1.16	1.14	1.13	1.12	1.12	1.12	1.13	1.13	1.14
	.82	.81	.79	.78	.77	.77	.78	.79	.79	.80	.80	.80	.79	.79	.79	.79	.80	.81	.83	.84	.85	.85	.85	.84

MONTH	00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23
55-65N 05	12.29	12.68	13.23	13.92	14.70	15.50	16.22	16.80	17.16	17.23	17.04	16.62	16.02	15.33	14.61	13.95	13.37	12.89	12.52	12.24	12.06	11.95	11.94	12.05
	1.12	1.13	1.15	1.16	1.18	1.19	1.20	1.21	1.22	1.22	1.21	1.21	1.19	1.18	1.17	1.17	1.16	1.15	1.15	1.14	1.13	1.13	1.13	1.12
	.81	.81	.81	.81	.81	.80	.80	.79	.78	.78	.77	.77	.77	.78	.79	.81	.82	.83	.83	.83	.83	.83	.82	.82
45-55N 05	9.36	9.82	10.56	11.51	12.59	13.69	14.69	15.50	16.05	16.32	16.29	16.02	15.57	14.98	14.32	13.62	12.91	12.19	11.47	10.78	10.15	9.63	9.29	9.18
	1.10	1.10	1.11	1.12	1.14	1.15	1.17	1.18	1.19	1.19	1.19	1.19	1.18	1.17	1.16	1.15	1.14	1.13	1.12	1.12	1.11	1.10	1.10	1.10
	.87	.86	.86	.84	.83	.81	.80	.79	.78	.77	.77	.77	.78	.78	.79	.80	.82	.83	.84	.85	.86	.87	.87	.87
35-45N 05	7.36	7.70	8.24	8.91	9.65	10.35	10.90	11.22	11.29	11.12	10.76	10.30	9.82	9.40	9.07	8.84	8.67	8.50	8.31	8.06	7.78	7.51	7.30	7.24
	1.09	1.09	1.10	1.10	1.10	1.11	1.11	1.11	1.10	1.10	1.10	1.10	1.10	1.10	1.10	1.10	1.10	1.10	1.09	1.09	1.09	1.08	1.08	1.08
	.90	.89	.88	.87	.86	.85	.84	.84	.84	.84	.85	.86	.87	.87	.88	.88	.88	.89	.89	.89	.89	.90	.90	.90
25-35N																								
15-25N 05	13.75	13.39	12.86	12.26	11.65	11.09	10.62	10.24	9.93	9.68	9.46	9.29	9.16	9.11	9.17	9.40	9.80	10.38	11.11	11.90	12.67	13.31	13.73	13.88
	1.20	1.19	1.18	1.17	1.15	1.14	1.13	1.12	1.11	1.11	1.10	1.10	1.10	1.10	1.10	1.11	1.12	1.13	1.15	1.16	1.18	1.19	1.20	1.20
	.85	.85	.86	.86	.86	.87	.87	.88	.88	.89	.89	.89	.89	.89	.89	.88	.88	.87	.87	.86	.86	.85	.85	.85
5-15N																								
5N-5S 11	12.95	14.16	15.17	15.71	15.60	14.78	13.34	11.54	9.69	8.12	7.08	6.67	6.86	7.49	8.33	9.15	9.77	10.12	10.22	10.19	10.19	10.40	10.92	11.79
	1.17	1.19	1.21	1.22	1.22	1.21	1.19	1.17	1.14	1.11	1.09	1.09	1.09	1.10	1.11	1.13	1.14	1.14	1.14	1.13	1.13	1.13	1.14	1.15
	.85	.84	.84	.84	.85	.86	.88	.90	.91	.92	.92	.92	.92	.91	.90	.89	.88	.88	.88	.87	.87	.87	.87	.86
5-15S 11	12.23	13.37	14.24	14.71	14.68	14.13	13.12	11.75	10.21	8.68	7.30	6.20	5.41	4.95	4.76	4.81	5.05	5.44	5.98	6.66	7.52	8.53	9.69	10.95
	1.15	1.17	1.17	1.18	1.17	1.16	1.15	1.13	1.12	1.10	1.08	1.07	1.06	1.06	1.05	1.05	1.05	1.05	1.06	1.07	1.08	1.10	1.12	1.14
	.85	.83	.82	.81	.80	.81	.82	.84	.86	.88	.90	.91	.93	.93	.94	.94	.93	.93	.92	.91	.90	.89	.88	.86
15-25S 11	9.63	9.51	9.48	9.52	9.59	9.66	9.68	9.64	9.54	9.40	9.26	9.16	9.16	9.27	9.49	9.78	10.10	10.38	10.56	10.61	10.52	10.33	10.08	9.83
	1.11	1.11	1.11	1.11	1.12	1.12	1.11	1.11	1.11	1.10	1.09	1.09	1.08	1.08	1.09	1.09	1.10	1.10	1.11	1.11	1.11	1.11	1.11	1.11
	.89	.89	.89	.89	.89	.88	.88	.88	.89	.89	.90	.90	.91	.91	.91	.91	.90	.90	.89	.89	.89	.89	.89	.89
25-35S 11	9.17	9.39	9.62	9.84	10.03	10.19	10.29	10.32	10.27	10.14	9.96	9.73	9.48	9.22	8.98	8.77	8.61	8.50	8.44	8.45	8.51	8.63	8.78	8.96
	1.10	1.10	1.11	1.11	1.11	1.11	1.11	1.11	1.10	1.10	1.09	1.08	1.08	1.07	1.07	1.07	1.07	1.07	1.08	1.08	1.08	1.09	1.09	1.09
	.87	.87	.87	.86	.86	.86	.85	.85	.85	.85	.85	.85	.86	.86	.87	.87	.87	.88	.88	.88	.87	.87	.87	.87
35-45S 11	9.27	9.59	10.10	10.76	11.50	12.25	12.90	13.38	13.61	13.59	13.33	12.89	12.35	11.80	11.27	10.82	10.43	10.12	9.84	9.59	9.37	9.19	9.10	9.11
	1.12	1.12	1.13	1.13	1.14	1.14	1.14	1.14	1.14	1.13	1.12	1.12	1.11	1.10	1.10	1.10	1.10	1.10	1.10	1.11	1.11	1.11	1.11	1.11
	.88	.88	.87	.86	.84	.83	.82	.80	.79	.79	.79	.79	.80	.82	.83	.83	.84	.85	.86	.87	.88	.88	.88	.88
45-55S 11	9.94	10.22	10.72	11.43	12.31	13.28	14.25	15.13	15.80	16.21	16.32	16.15	15.72	15.12	14.42	13.68	12.96	12.28	11.66	11.12	10.64	10.26	9.99	9.88
	1.11	1.11	1.12	1.13	1.14	1.16	1.18	1.20	1.21	1.22	1.21	1.20	1.19	1.17	1.15	1.14	1.13	1.13	1.12	1.12	1.12	1.12	1.12	1.12
	.87	.86	.85	.84	.84	.83	.82	.82	.80	.79	.79	.78	.78	.78	.78	.79	.79	.81	.83	.84	.86	.86	.87	.87
55-65S 11	13.01	13.72	14.29	14.70	14.96	15.10	15.15	15.17	15.17	15.14	15.05	14.86	14.53	14.05	13.42	12.70	11.95	11.28	10.79	10.54	10.59	10.93	11.51	12.24
	1.14	1.15	1.16	1.17	1.18	1.18	1.19	1.20	1.21	1.21	1.21	1.20	1.20	1.19	1.17	1.16	1.15	1.14	1.13	1.12	1.12	1.12	1.13	1.13
	.82	.81	.80	.80	.80	.81	.81	.82	.82	.82	.82	.82	.82	.82	.82	.82	.83	.84	.85	.86	.86	.86	.85	.84



MONTH	00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23
55-65N 06	10.88	11.49	12.11	12.71	13.24	13.65	13.90	13.96	13.82	13.49	13.01	12.40	11.73	11.06	10.43	9.89	9.47	9.18	9.04	9.04	9.18	9.44	9.84	10.32
	1.11	1.12	1.12	1.13	1.14	1.15	1.16	1.16	1.16	1.16	1.15	1.14	1.13	1.12	1.11	1.10	1.10	1.10	1.09	1.09	1.10	1.10	1.10	1.11
	.83	.83	.82	.81	.81	.81	.80	.81	.80	.81	.82	.82	.83	.83	.84	.85	.86	.86	.87	.87	.86	.86	.85	.84
45-55N 06	9.40	9.89	10.52	11.26	12.04	12.77	13.39	13.82	14.04	14.02	13.79	13.39	12.88	12.30	11.72	11.17	10.66	10.20	9.78	9.44	9.16	8.99	8.96	9.09
	1.11	1.11	1.12	1.13	1.15	1.16	1.17	1.17	1.18	1.18	1.18	1.18	1.17	1.16	1.15	1.14	1.13	1.13	1.12	1.11	1.11	1.11	1.11	1.11
	.88	.87	.86	.85	.84	.83	.82	.82	.82	.83	.83	.83	.84	.84	.85	.85	.86	.86	.87	.88	.88	.88	.88	.88
35-45N 06	8.84	9.13	9.55	10.08	10.67	11.26	11.78	12.15	12.34	12.33	12.12	11.76	11.31	10.82	10.36	9.96	9.63	9.36	9.14	8.96	8.81	8.71	8.66	8.69
	1.09	1.10	1.10	1.11	1.11	1.11	1.11	1.11	1.11	1.10	1.10	1.10	1.09	1.09	1.09	1.10	1.10	1.10	1.09	1.09	1.09	1.09	1.09	1.09
	.88	.88	.87	.86	.85	.84	.83	.82	.81	.82	.82	.82	.84	.85	.85	.86	.87	.87	.88	.88	.88	.88	.88	.88
25-35N																								
15-25N 06	13.19	13.18	13.24	13.33	13.38	13.32	13.11	12.73	12.22	11.66	11.16	10.80	10.65	10.75	11.07	11.56	12.13	12.69	13.14	13.44	13.56	13.53	13.41	13.28
	1.17	1.17	1.17	1.17	1.17	1.17	1.16	1.15	1.14	1.13	1.12	1.11	1.10	1.10	1.11	1.12	1.13	1.14	1.15	1.16	1.17	1.17	1.17	1.17
	.84	.84	.84	.83	.83	.83	.83	.84	.85	.85	.86	.87	.87	.88	.88	.87	.87	.87	.86	.86	.85	.85	.85	.84
5-15N																								
5N-5S 12	12.97	14.51	15.87	16.76	16.97	16.41	15.14	13.37	11.39	9.54	8.07	7.13	6.74	6.81	7.16	7.62	8.04	8.35	8.54	8.71	8.97	9.47	10.31	11.50
	1.17	1.19	1.21	1.23	1.23	1.23	1.21	1.19	1.16	1.13	1.11	1.09	1.09	1.09	1.09	1.10	1.10	1.11	1.11	1.11	1.12	1.12	1.13	1.15
	.84	.83	.81	.81	.81	.82	.83	.85	.87	.89	.91	.92	.92	.92	.91	.91	.90	.90	.90	.89	.89	.88	.87	.86
5-15S 12	16.59	17.69	18.33	18.41	17.90	16.83	15.33	13.56	11.72	9.99	8.54	7.44	6.71	6.34	6.27	6.46	6.86	7.47	8.30	9.35	10.62	12.07	13.63	15.18
	1.22	1.24	1.26	1.26	1.26	1.24	1.22	1.19	1.15	1.12	1.09	1.07	1.06	1.05	1.05	1.06	1.07	1.08	1.09	1.11	1.12	1.15	1.17	1.20
	.80	.79	.78	.79	.80	.81	.83	.85	.87	.89	.90	.90	.91	.91	.91	.91	.90	.90	.90	.89	.87	.86	.84	.82
15-25S 12	9.19	9.23	9.28	9.28	9.19	8.96	8.61	8.18	7.75	7.41	7.24	7.30	7.58	8.05	8.63	9.21	9.69	10.00	10.11	10.04	9.84	9.59	9.37	9.23
	1.12	1.12	1.12	1.12	1.11	1.11	1.10	1.09	1.09	1.08	1.08	1.08	1.09	1.10	1.11	1.12	1.13	1.13	1.13	1.13	1.13	1.12	1.12	1.12
	.89	.89	.89	.89	.89	.90	.90	.90	.91	.91	.91	.91	.91	.91	.90	.90	.90	.89	.89	.89	.89	.89	.89	.89
25-35S 12	9.92	10.43	11.05	11.70	12.29	12.74	13.02	13.10	12.99	12.76	12.44	12.11	11.79	11.52	11.28	11.05	10.81	10.54	10.23	9.91	9.64	9.46	9.42	9.58
	1.10	1.11	1.12	1.13	1.13	1.13	1.13	1.12	1.12	1.11	1.10	1.09	1.09	1.09	1.09	1.10	1.10	1.10	1.10	1.09	1.09	1.09	1.09	1.09
	.86	.85	.85	.85	.84	.83	.82	.81	.81	.80	.80	.80	.81	.81	.82	.83	.83	.84	.84	.85	.85	.85	.85	.85
35-45S 12	9.55	10.07	10.74	11.51	12.31	13.05	13.65	14.05	14.22	14.14	13.85	13.41	12.87	12.28	11.70	11.16	10.65	10.19	9.78	9.44	9.18	9.03	9.03	9.20
	1.12	1.12	1.13	1.14	1.14	1.16	1.16	1.17	1.17	1.16	1.15	1.14	1.13	1.13	1.12	1.11	1.12	1.12	1.12	1.12	1.12	1.11	1.11	1.12
	.88	.87	.86	.86	.84	.83	.82	.81	.80	.80	.80	.80	.81	.82	.82	.83	.84	.86	.87	.87	.88	.88	.88	.88
45-55S 12	9.47	10.06	10.78	11.58	12.35	13.03	13.56	13.90	14.04	14.00	13.80	13.50	13.11	12.67	12.20	11.69	11.16	10.61	10.07	9.58	9.18	8.94	8.89	9.07
	1.11	1.12	1.13	1.14	1.15	1.16	1.17	1.18	1.18	1.18	1.17	1.17	1.16	1.16	1.15	1.14	1.14	1.13	1.13	1.12	1.12	1.11	1.11	1.11
	.88	.88	.87	.85	.84	.83	.83	.83	.83	.82	.82	.83	.83	.83	.84	.84	.85	.86	.87	.88	.88	.89	.89	.89
55-65S 12	10.93	11.62	12.26	12.80	13.19	13.43	13.53	13.50	13.37	13.16	12.87	12.51	12.09	11.62	11.09	10.55	10.01	9.54	9.18	8.98	8.99	9.22	9.65	10.24
	1.11	1.12	1.13	1.14	1.16	1.17	1.17	1.18	1.17	1.17	1.16	1.15	1.14	1.13	1.12	1.12	1.11	1.11	1.11	1.10	1.10	1.10	1.10	1.10
	.85	.84	.83	.83	.83	.83	.83	.83	.83	.83	.83	.83	.83	.83	.84	.85	.86	.87	.88	.89	.89	.88	.87	.86

MONTH	00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23
55-65N 07	11.49	12.59	13.55	14.27	14.71	14.85	14.73	14.39	13.91	13.33	12.69	12.01	11.31	10.58	9.85	9.15	8.51	8.00	7.70	7.65	7.91	8.48	9.32	10.36
	1.14	1.15	1.17	1.18	1.19	1.19	1.19	1.18	1.18	1.17	1.16	1.15	1.14	1.13	1.12	1.11	1.10	1.09	1.09	1.09	1.09	1.10	1.11	1.12
	.86	.84	.83	.83	.82	.82	.82	.82	.83	.84	.85	.86	.87	.88	.88	.89	.90	.90	.90	.90	.90	.89	.88	.87
45-55N 07	10.54	11.06	11.59	12.11	12.58	12.99	13.31	13.50	13.55	13.45	13.19	12.79	12.29	11.71	11.11	10.54	10.03	9.62	9.34	9.21	9.22	9.38	9.67	10.06
	1.14	1.15	1.15	1.16	1.17	1.18	1.18	1.18	1.18	1.18	1.17	1.16	1.15	1.14	1.13	1.12	1.12	1.11	1.11	1.11	1.11	1.12	1.12	1.13
	.88	.87	.87	.86	.86	.85	.84	.84	.84	.84	.84	.84	.84	.85	.85	.86	.87	.87	.88	.88	.88	.88	.88	.88
35-45N 07	9.59	10.09	10.62	11.18	11.72	12.19	12.52	12.68	12.63	12.37	11.93	11.34	10.67	9.99	9.36	8.83	8.43	8.18	8.08	8.11	8.26	8.48	8.79	9.16
	1.12	1.13	1.14	1.15	1.15	1.15	1.15	1.15	1.14	1.13	1.13	1.12	1.11	1.11	1.11	1.10	1.10	1.10	1.10	1.10	1.10	1.10	1.11	1.11
	.88	.88	.88	.87	.86	.85	.84	.83	.82	.82	.83	.84	.85	.86	.87	.88	.89	.89	.89	.89	.89	.89	.88	.88
25-35N																								
15-25N 07	12.57	12.84	13.18	13.50	13.72	13.75	13.53	13.06	12.38	11.60	10.83	10.18	9.75	9.59	9.70	10.04	10.51	11.03	11.51	11.88	12.11	12.24	12.31	12.40
	1.17	1.17	1.17	1.18	1.18	1.18	1.18	1.16	1.15	1.13	1.12	1.10	1.10	1.09	1.10	1.11	1.12	1.13	1.14	1.15	1.16	1.16	1.16	1.16
	.85	.85	.85	.84	.84	.84	.85	.85	.86	.87	.88	.89	.89	.89	.89	.88	.88	.87	.87	.86	.86	.86	.86	.86
5-15N																								
5N-5S 01	13.44	15.18	16.66	17.60	17.79	17.16	15.81	13.98	11.98	10.13	8.67	7.74	7.33	7.33	7.55	7.85	8.07	8.20	8.25	8.36	8.65	9.27	10.30	11.73
	1.17	1.19	1.20	1.21	1.21	1.21	1.19	1.17	1.15	1.13	1.11	1.10	1.10	1.10	1.10	1.10	1.10	1.10	1.10	1.10	1.11	1.11	1.13	1.14
	.83	.80	.79	.78	.78	.79	.81	.84	.87	.89	.91	.92	.92	.91	.91	.90	.90	.90	.90	.89	.89	.88	.87	.85
5-15S 01	14.15	15.79	17.07	17.74	17.67	16.86	15.41	13.55	11.57	9.73	8.26	7.26	6.71	6.54	6.59	6.76	6.94	7.13	7.37	7.76	8.41	9.40	10.75	12.38
	1.17	1.19	1.22	1.24	1.24	1.24	1.22	1.19	1.16	1.12	1.10	1.08	1.07	1.06	1.07	1.07	1.08	1.08	1.08	1.09	1.09	1.10	1.12	1.14
	.81	.80	.79	.79	.80	.82	.84	.87	.89	.90	.91	.91	.92	.92	.92	.92	.93	.93	.92	.92	.90	.88	.86	.84
15-25S 01	11.24	11.85	12.47	12.95	13.13	12.92	12.31	11.39	10.32	9.28	8.47	8.02	7.98	8.31	8.89	9.56	10.17	10.60	10.79	10.78	10.65	10.54	10.55	10.78
	1.14	1.14	1.15	1.16	1.16	1.16	1.15	1.14	1.13	1.12	1.11	1.10	1.10	1.11	1.11	1.12	1.13	1.14	1.14	1.14	1.14	1.13	1.13	1.13
	.87	.86	.86	.85	.85	.85	.85	.86	.87	.88	.89	.89	.89	.89	.88	.88	.87	.87	.87	.87	.87	.87	.87	.87
25-35S 01	10.16	10.75	11.37	11.93	12.30	12.43	12.29	11.89	11.31	10.65	10.02	9.51	9.17	9.03	9.05	9.17	9.31	9.41	9.43	9.39	9.32	9.30	9.41	9.70
	1.12	1.13	1.14	1.15	1.16	1.16	1.16	1.15	1.13	1.12	1.10	1.09	1.08	1.08	1.08	1.08	1.09	1.10	1.10	1.10	1.10	1.11	1.11	1.11
	.87	.87	.86	.86	.85	.85	.85	.85	.85	.86	.86	.87	.87	.87	.87	.87	.87	.86	.86	.87	.87	.87	.87	.87
35-45S 01	9.06	9.55	10.15	10.82	11.49	12.09	12.59	12.91	13.03	12.93	12.67	12.25	11.73	11.17	10.61	10.08	9.60	9.20	8.87	8.60	8.44	8.39	8.47	8.69
	1.12	1.13	1.14	1.14	1.15	1.15	1.15	1.15	1.15	1.15	1.14	1.13	1.13	1.12	1.12	1.12	1.12	1.11	1.11	1.11	1.11	1.11	1.11	1.11
	.89	.88	.88	.87	.86	.85	.84	.83	.82	.82	.82	.82	.83	.84	.85	.86	.87	.88	.88	.89	.89	.89	.89	.89
45-55S 01	10.35	10.71	11.15	11.61	12.05	12.42	12.69	12.85	12.88	12.78	12.60	12.33	12.01	11.67	11.32	10.98	10.66	10.37	10.14	9.96	9.86	9.83	9.90	10.07
	1.12	1.13	1.13	1.14	1.15	1.16	1.16	1.16	1.16	1.16	1.15	1.15	1.15	1.14	1.13	1.13	1.13	1.12	1.12	1.12	1.11	1.11	1.11	1.11
	.86	.85	.85	.85	.84	.84	.84	.84	.83	.83	.83	.83	.84	.84	.85	.86	.86	.86	.87	.87	.87	.87	.86	.86
55-65S 01	11.15	12.06	12.81	13.32	13.56	13.55	13.35	13.04	12.69	12.35	12.04	11.73	11.39	11.00	10.52	9.98	9.40	8.86	8.45	8.25	8.32	8.69	9.34	10.19
	1.12	1.13	1.14	1.14	1.15	1.15	1.16	1.16	1.16	1.16	1.16	1.15	1.15	1.14	1.13	1.13	1.12	1.11	1.11	1.10	1.10	1.10	1.11	1.11
	.84	.83	.82	.81	.81	.81	.82	.83	.84	.84	.85	.86	.86	.87	.87	.88	.88	.89	.89	.89	.89	.88	.87	.85

MONTH	00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23
55-65N 08	12.80	13.27	13.55	13.65	13.61	13.50	13.38	13.30	13.25	13.21	13.12	12.92	12.59	12.11	11.53	10.91	10.36	9.95	9.77	9.87	10.22	10.78	11.47	12.18
	1.14	1.15	1.16	1.16	1.17	1.17	1.17	1.17	1.17	1.17	1.17	1.16	1.16	1.15	1.14	1.13	1.11	1.10	1.10	1.09	1.10	1.10	1.11	1.12
	.83	.82	.82	.82	.83	.83	.83	.83	.84	.83	.83	.83	.84	.84	.85	.85	.86	.86	.86	.86	.85	.85	.84	.83
45-55N 08	11.54	11.84	12.18	12.60	13.11	13.69	14.32	14.91	15.39	15.67	15.68	15.40	14.86	14.11	13.26	12.42	11.67	11.09	10.72	10.56	10.58	10.74	10.97	11.25
	1.13	1.14	1.15	1.16	1.17	1.18	1.19	1.20	1.21	1.21	1.21	1.21	1.20	1.18	1.17	1.16	1.14	1.13	1.13	1.12	1.12	1.12	1.13	1.13
	.85	.85	.84	.84	.83	.82	.82	.81	.81	.81	.81	.81	.81	.82	.83	.83	.84	.85	.85	.86	.85	.86	.86	.85
35-45N 08	8.79	9.05	9.37	9.73	10.13	10.51	10.84	11.07	11.16	11.09	10.87	10.53	10.10	9.64	9.20	8.82	8.52	8.31	8.20	8.17	8.20	8.28	8.41	8.58
	1.11	1.12	1.12	1.12	1.13	1.13	1.13	1.12	1.12	1.12	1.11	1.11	1.10	1.10	1.10	1.10	1.10	1.10	1.10	1.10	1.10	1.10	1.10	1.10
	.89	.89	.89	.89	.88	.87	.86	.85	.84	.84	.84	.84	.85	.86	.87	.88	.89	.89	.89	.89	.89	.89	.89	.89
25-35N																								
15-25N 08	20.77	20.54	19.97	19.13	18.09	16.91	15.67	14.45	13.31	12.33	11.55	11.00	10.71	10.71	11.01	11.61	12.53	13.71	15.08	16.54	17.94	19.16	20.08	20.62
	1.29	1.28	1.27	1.25	1.24	1.22	1.20	1.19	1.17	1.16	1.14	1.13	1.13	1.13	1.14	1.15	1.17	1.20	1.22	1.25	1.27	1.29	1.30	1.30
	.80	.80	.80	.80	.80	.80	.81	.82	.83	.84	.85	.86	.87	.87	.86	.86	.85	.84	.83	.82	.82	.81	.81	.81
5-15N																								
5N-5S 02	13.68	15.41	16.96	18.06	18.51	18.22	17.25	15.80	14.12	12.49	11.13	10.16	9.57	9.29	9.19	9.14	9.07	8.96	8.86	8.87	9.11	9.68	10.66	12.02
	1.18	1.21	1.23	1.24	1.25	1.24	1.22	1.20	1.17	1.15	1.13	1.12	1.11	1.11	1.12	1.12	1.12	1.13	1.12	1.12	1.12	1.13	1.14	1.16
	.84	.82	.81	.80	.79	.80	.80	.82	.83	.85	.86	.88	.89	.89	.90	.90	.90	.90	.90	.90	.90	.89	.88	.87
5-15S 02	18.92	19.33	19.34	18.98	18.31	17.39	16.26	15.00	13.66	12.33	11.07	9.94	9.00	8.30	7.90	7.86	8.23	9.03	10.26	11.80	13.53	15.27	16.83	18.07
	1.22	1.23	1.23	1.23	1.23	1.22	1.21	1.19	1.18	1.16	1.14	1.12	1.11	1.10	1.10	1.10	1.11	1.12	1.13	1.15	1.17	1.18	1.20	1.21
	.75	.75	.75	.76	.78	.79	.81	.83	.85	.86	.87	.88	.89	.90	.91	.91	.91	.90	.89	.87	.84	.81	.78	.76
15-25S 02	11.03	10.98	11.10	11.29	11.41	11.34	10.99	10.36	9.53	8.64	7.87	7.39	7.32	7.68	8.44	9.44	10.52	11.47	12.14	12.45	12.41	12.11	11.68	11.28
	1.13	1.13	1.13	1.13	1.13	1.13	1.13	1.12	1.12	1.11	1.10	1.09	1.08	1.08	1.09	1.10	1.11	1.13	1.14	1.14	1.15	1.15	1.14	1.14
	.87	.87	.87	.86	.85	.85	.86	.87	.88	.89	.90	.90	.90	.89	.88	.87	.85	.84	.84	.84	.85	.86	.87	.87
25-35S 02	11.67	11.92	12.10	12.21	12.22	12.12	11.92	11.64	11.29	10.91	10.55	10.23	9.99	9.84	9.78	9.81	9.89	10.01	10.17	10.36	10.58	10.83	11.10	11.39
	1.13	1.13	1.14	1.14	1.14	1.14	1.14	1.13	1.12	1.11	1.10	1.09	1.09	1.09	1.08	1.08	1.09	1.09	1.09	1.09	1.10	1.10	1.11	1.12
	.84	.84	.84	.84	.84	.84	.84	.84	.84	.84	.85	.86	.87	.88	.88	.88	.88	.88	.88	.87	.86	.86	.85	.84
35-45S 02	9.41	9.62	10.01	10.56	11.24	11.98	12.68	13.26	13.61	13.72	13.56	13.19	12.66	12.07	11.51	11.00	10.60	10.28	10.05	9.85	9.67	9.51	9.39	9.35
	1.11	1.12	1.12	1.13	1.13	1.13	1.14	1.14	1.14	1.13	1.13	1.12	1.11	1.11	1.11	1.11	1.11	1.11	1.11	1.11	1.11	1.11	1.10	1.10
	.88	.88	.88	.87	.86	.84	.83	.81	.80	.79	.79	.79	.80	.81	.82	.84	.85	.86	.87	.87	.87	.87	.88	.88
45-55S 02	11.14	11.39	11.78	12.28	12.86	13.49	14.10	14.65	15.10	15.41	15.56	15.53	15.36	15.05	14.64	14.16	13.64	13.10	12.58	12.08	11.65	11.32	11.11	11.05
	1.13	1.13	1.15	1.15	1.16	1.17	1.18	1.18	1.19	1.19	1.18	1.18	1.17	1.16	1.15	1.14	1.14	1.13	1.13	1.13	1.12	1.12	1.13	1.13
	.85	.85	.85	.84	.84	.83	.82	.80	.80	.79	.79	.79	.79	.79	.80	.80	.80	.82	.82	.83	.84	.84	.85	.85
55-65S 02	11.96	12.74	13.53	14.28	14.92	15.43	15.79	16.03	16.13	16.12	15.99	15.73	15.35	14.83	14.20	13.47	12.71	11.96	11.30	10.81	10.54	10.53	10.78	11.28
	1.13	1.14	1.16	1.17	1.18	1.19	1.19	1.19	1.19	1.19	1.18	1.18	1.17	1.16	1.16	1.15	1.14	1.13	1.12	1.12	1.11	1.11	1.11	1.12
	.84	.83	.82	.81	.80	.79	.79	.78	.78	.78	.79	.79	.80	.80	.81	.82	.82	.83	.84	.84	.85	.85	.85	.85

MONTH	00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23
55-65N 09	13.69	14.11	14.42	14.61	14.72	14.77	14.79	14.76	14.68	14.53	14.27	13.88	13.37	12.78	12.15	11.57	11.12	10.84	10.80	10.99	11.38	11.93	12.53	13.14
	1.16	1.17	1.18	1.19	1.19	1.20	1.20	1.20	1.20	1.19	1.19	1.18	1.17	1.16	1.15	1.14	1.13	1.13	1.13	1.12	1.13	1.13	1.14	1.15
	.83	.82	.82	.83	.83	.83	.83	.83	.82	.82	.82	.83	.83	.84	.85	.85	.87	.87	.87	.86	.86	.85	.84	.83
45-55N 09	10.95	11.14	11.44	11.87	12.42	13.04	13.67	14.25	14.68	14.92	14.95	14.75	14.36	13.85	13.28	12.71	12.20	11.77	11.44	11.19	11.02	10.91	10.85	10.86
	1.12	1.13	1.14	1.14	1.15	1.16	1.16	1.16	1.17	1.17	1.17	1.16	1.16	1.15	1.14	1.14	1.13	1.13	1.12	1.12	1.12	1.12	1.12	1.12
	.86	.86	.86	.85	.84	.83	.82	.81	.81	.80	.80	.80	.80	.81	.82	.83	.83	.84	.85	.85	.86	.86	.86	.86
35-45N 09	8.56	8.45	8.39	8.43	8.56	8.72	8.86	8.90	8.79	8.51	8.08	7.57	7.07	6.67	6.45	6.45	6.68	7.07	7.55	8.02	8.40	8.64	8.72	8.68
	1.11	1.11	1.10	1.10	1.10	1.10	1.10	1.10	1.10	1.10	1.10	1.09	1.08	1.08	1.08	1.08	1.08	1.09	1.10	1.10	1.11	1.12	1.11	1.11
	.90	.90	.90	.90	.89	.89	.88	.88	.88	.88	.89	.90	.91	.91	.91	.92	.91	.91	.90	.90	.90	.90	.90	.90
25-35N																								
15-25N 09	26.26	26.60	26.17	25.00	23.21	20.93	18.39	15.79	13.35	11.23	9.54	8.34	7.65	7.46	7.77	8.59	9.90	11.68	13.86	16.31	18.87	21.33	23.51	25.20
	1.40	1.41	1.40	1.38	1.35	1.31	1.27	1.23	1.19	1.15	1.12	1.10	1.09	1.09	1.10	1.12	1.15	1.18	1.22	1.26	1.30	1.33	1.37	1.39
	.78	.77	.78	.78	.80	.81	.83	.85	.87	.89	.90	.90	.91	.91	.90	.89	.88	.87	.86	.84	.82	.81	.79	.78
5-15N																								
5N-5S 03	14.22	15.34	16.35	17.03	17.23	16.86	15.96	14.68	13.23	11.85	10.72	9.97	9.60	9.56	9.75	10.05	10.36	10.63	10.84	11.05	11.31	11.70	12.31	13.16
	1.19	1.21	1.22	1.22	1.23	1.22	1.21	1.19	1.18	1.17	1.16	1.15	1.15	1.15	1.15	1.16	1.16	1.16	1.16	1.16	1.16	1.16	1.17	1.18
	.84	.83	.82	.81	.81	.82	.83	.84	.86	.87	.89	.90	.91	.91	.92	.92	.91	.91	.90	.89	.89	.88	.86	.85
5-15S 03	0.00	0.00	0.00	0.00	0.00	11.20	16.70	13.70	8.10	9.00	7.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	0.00	0.00	0.00	0.00	0.00	1.08	1.26	1.09	1.14	1.13	1.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	0.00	0.00	0.00	0.00	0.00	.85	.79	.77	.91	.92	.91	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
15-25S 03	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
25-35S 03	6.52	7.32	8.19	8.98	9.56	9.81	9.65	9.09	8.22	7.16	6.08	5.14	4.46	4.09	4.01	4.14	4.38	4.63	4.83	4.95	5.04	5.17	5.43	5.87
	1.08	1.09	1.10	1.11	1.13	1.13	1.14	1.13	1.12	1.10	1.09	1.07	1.06	1.05	1.05	1.05	1.06	1.06	1.07	1.07	1.07	1.07	1.07	1.07
	.92	.91	.90	.89	.89	.89	.90	.91	.92	.93	.94	.94	.95	.95	.95	.94	.94	.94	.94	.94	.94	.94	.93	.93
35-45S 03	7.18	7.61	8.02	8.38	8.65	8.79	8.77	8.56	8.17	7.63	7.00	6.35	5.74	5.23	4.87	4.67	4.64	4.73	4.95	5.23	5.56	5.93	6.32	6.75
	1.09	1.10	1.10	1.11	1.11	1.11	1.11	1.11	1.11	1.10	1.10	1.09	1.09	1.08	1.07	1.07	1.07	1.07	1.07	1.07	1.07	1.08	1.08	1.09
	.92	.91	.90	.89	.89	.88	.89	.89	.90	.91	.93	.94	.95	.95	.95	.95	.95	.94	.94	.94	.94	.93	.92	.92
45-55S 03	6.41	6.42	6.61	5.81	7.60	8.30	9.00	9.58	9.94	10.00	9.78	9.32	8.73	8.12	7.60	7.23	7.02	6.96	6.97	6.98	6.95	6.85	6.70	6.52
	1.08	1.08	1.08	1.07	1.08	1.09	1.10	1.10	1.10	1.11	1.10	1.10	1.09	1.08	1.07	1.07	1.07	1.07	1.07	1.07	1.07	1.08	1.08	1.08
	.92	.92	.91	.92	.89	.88	.87	.86	.85	.85	.85	.86	.86	.87	.88	.89	.90	.90	.91	.91	.91	.92	.92	.92
55-65S 03	6.93	7.09	7.48	8.13	9.03	10.13	11.33	12.52	13.55	14.31	14.72	14.76	14.45	13.84	13.03	12.11	11.16	10.25	9.41	8.68	8.06	7.57	7.20	6.98
	1.07	1.07	1.08	1.09	1.10	1.11	1.13	1.14	1.15	1.16	1.16	1.16	1.16	1.15	1.14	1.12	1.11	1.10	1.09	1.08	1.08	1.07	1.07	1.07
	.91	.91	.91	.90	.89	.88	.86	.85	.83	.82	.80	.80	.79	.79	.80	.80	.82	.83	.84	.86	.87	.89	.90	.91

MONTH	00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23	
55-65N 10	16.36	16.71	16.87	16.87	16.76	16.57	16.33	16.09	15.82	15.53	15.17	14.73	14.23	13.70	13.18	12.76	12.51	12.49	12.70	13.14	13.76	14.47	15.19	15.84	
	1.18	1.19	1.20	1.20	1.20	1.20	1.19	1.19	1.18	1.17	1.17	1.16	1.15	1.14	1.14	1.14	1.14	1.14	1.15	1.15	1.16	1.16	1.17	1.18	
	.78	.77	.78	.78	.78	.78	.78	.78	.78	.77	.77	.78	.78	.79	.80	.81	.82	.83	.84	.83	.83	.82	.81	.79	.79
45-55N 10	12.60	12.91	13.18	13.40	13.57	13.70	13.75	13.70	13.55	13.26	12.85	12.34	11.77	11.21	10.71	10.33	10.13	10.10	10.26	10.55	10.94	11.38	11.82	12.23	
	1.16	1.16	1.16	1.16	1.16	1.16	1.16	1.15	1.14	1.14	1.13	1.12	1.12	1.11	1.11	1.11	1.11	1.11	1.12	1.13	1.14	1.14	1.15	1.15	
	.84	.84	.84	.83	.82	.82	.82	.81	.81	.81	.81	.82	.82	.84	.85	.85	.86	.87	.86	.86	.86	.86	.86	.86	.85
35-45N 10	11.24	11.26	11.19	11.05	10.84	10.57	10.20	9.73	9.15	8.49	7.79	7.11	6.54	6.15	6.00	6.13	6.52	7.15	7.92	8.75	9.55	10.24	10.76	11.08	
	1.15	1.15	1.15	1.15	1.14	1.14	1.13	1.12	1.11	1.10	1.09	1.08	1.08	1.08	1.07	1.08	1.08	1.09	1.10	1.11	1.12	1.13	1.14	1.15	
	.88	.87	.87	.87	.87	.87	.87	.87	.88	.88	.89	.90	.91	.92	.92	.92	.91	.91	.90	.89	.88	.87	.87	.87	
25-35N																									
15-25N 10	25.46	27.25	28.18	27.98	26.60	24.15	20.94	17.41	14.01	11.14	9.04	7.80	7.35	7.53	8.14	9.00	10.03	11.19	12.51	14.07	15.94	18.13	20.58	23.10	
	1.37	1.40	1.41	1.41	1.39	1.35	1.30	1.25	1.19	1.15	1.11	1.09	1.08	1.09	1.10	1.11	1.13	1.15	1.17	1.19	1.22	1.26	1.30	1.33	
	.74	.74	.74	.76	.78	.81	.83	.86	.88	.89	.90	.91	.91	.91	.90	.90	.89	.88	.86	.84	.82	.80	.77	.75	
5-15N																									
5N-5S 04	13.89	15.51	16.85	17.58	17.53	16.66	15.15	13.31	11.50	10.05	9.18	8.92	9.18	9.73	10.32	10.76	10.91	10.78	10.46	10.14	10.02	10.29	11.06	12.30	
	1.21	1.23	1.24	1.25	1.25	1.23	1.21	1.18	1.16	1.14	1.13	1.13	1.14	1.15	1.16	1.17	1.18	1.18	1.17	1.17	1.16	1.17	1.18	1.19	
	.86	.84	.82	.81	.81	.81	.83	.85	.87	.89	.90	.91	.91	.91	.90	.90	.90	.90	.90	.91	.91	.90	.89	.88	
5-15S 04	0.00	0.00	0.00	15.20	20.00	21.90	21.10	10.25	8.70	10.20	5.50	5.70	6.20	4.80	0.00	3.00	4.70	2.40	3.80	3.50	0.00	0.00	0.00	0.00	
	0.00	0.00	0.00	1.16	1.18	1.16	1.31	1.16	1.13	1.07	1.07	1.09	1.10	1.07	0.00	1.04	1.06	1.02	1.02	1.03	0.00	0.00	0.00	0.00	
	0.00	0.00	0.00	.81	.76	.71	.77	.95	.86	.83	.95	.94	.91	.92	0.00	.97	.95	.96	.93	.93	0.00	0.00	0.00	0.00	
15-25S 04	23.14	22.67	21.98	21.03	19.81	18.34	16.70	15.02	13.45	12.17	11.31	10.98	11.23	12.02	13.30	14.92	16.72	18.52	20.16	21.52	22.51	23.12	23.40	23.39	
	1.34	1.34	1.33	1.32	1.30	1.28	1.25	1.21	1.18	1.15	1.13	1.13	1.14	1.15	1.18	1.22	1.26	1.29	1.32	1.33	1.34	1.35	1.35	1.34	
	.78	.77	.78	.78	.79	.80	.81	.82	.83	.84	.84	.84	.84	.84	.84	.84	.84	.84	.84	.83	.82	.81	.80	.79	.78
25-35S 04	13.24	14.63	15.69	16.22	16.10	15.28	13.86	12.02	10.03	8.16	6.64	5.60	5.06	4.96	5.17	5.54	5.96	6.38	6.83	7.37	8.10	9.07	10.29	11.72	
	1.17	1.19	1.20	1.21	1.21	1.21	1.19	1.17	1.15	1.12	1.10	1.08	1.07	1.06	1.06	1.07	1.07	1.08	1.09	1.09	1.11	1.12	1.14	1.15	
	.83	.81	.81	.81	.82	.83	.85	.88	.90	.92	.93	.94	.94	.94	.94	.93	.93	.92	.92	.91	.90	.88	.87	.85	
35-45S 04	10.70	11.30	11.77	12.08	12.12	11.86	11.31	10.48	9.46	8.39	7.38	6.53	5.94	5.61	5.57	5.73	6.08	6.52	7.04	7.60	8.18	8.79	9.42	10.07	
	1.14	1.15	1.16	1.17	1.17	1.17	1.17	1.16	1.14	1.13	1.11	1.10	1.09	1.08	1.08	1.08	1.08	1.08	1.09	1.10	1.11	1.12	1.12	1.13	
	.86	.85	.85	.86	.86	.87	.88	.88	.90	.91	.92	.93	.94	.94	.94	.93	.93	.92	.91	.90	.89	.88	.88	.87	
45-55S 04	11.69	11.91	12.22	12.52	12.72	12.68	12.30	11.53	10.44	9.15	7.86	6.74	5.99	5.69	5.88	6.49	7.40	8.45	9.45	10.29	10.89	11.26	11.44	11.56	
	1.18	1.18	1.19	1.19	1.19	1.19	1.17	1.15	1.13	1.11	1.09	1.07	1.05	1.05	1.05	1.06	1.07	1.09	1.11	1.12	1.14	1.15	1.16	1.17	
	.87	.87	.87	.87	.87	.87	.88	.88	.89	.90	.91	.93	.93	.94	.93	.92	.91	.89	.88	.88	.87	.87	.87	.87	
55-65S 04	11.88	12.63	13.27	13.77	14.07	14.15	14.02	13.69	13.21	12.62	11.96	11.29	10.63	10.02	9.48	9.06	8.76	8.61	8.63	8.83	9.19	9.72	10.37	11.11	
	1.16	1.16	1.17	1.17	1.17	1.17	1.16	1.14	1.13	1.11	1.10	1.09	1.08	1.08	1.07	1.08	1.08	1.09	1.10	1.11	1.12	1.13	1.14	1.15	
	.87	.86	.85	.84	.83	.81	.80	.80	.80	.80	.81	.82	.83	.85	.86	.87	.88	.89	.89	.89	.88	.88	.88	.87	

	MONTH	00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23
55-65N	11	24.10	23.59	23.21	22.98	22.78	22.45	21.76	20.58	18.90	16.83	14.61	12.62	11.19	10.60	11.03	12.43	14.59	17.19	19.80	22.06	23.71	24.62	24.86	24.61
		1.31	1.30	1.30	1.30	1.30	1.31	1.30	1.28	1.26	1.22	1.19	1.16	1.13	1.12	1.12	1.14	1.17	1.21	1.25	1.28	1.30	1.31	1.32	1.31
		.70	.72	.73	.75	.76	.76	.77	.78	.79	.81	.82	.84	.85	.85	.85	.83	.81	.78	.74	.72	.70	.69	.69	.69
45-55N	11	17.54	17.06	16.56	16.10	15.65	15.14	14.48	13.59	12.47	11.17	9.83	8.64	7.81	7.49	7.77	8.67	10.09	11.82	13.65	15.33	16.67	17.53	17.92	17.88
		1.22	1.22	1.21	1.20	1.20	1.19	1.18	1.17	1.15	1.13	1.12	1.10	1.09	1.08	1.09	1.10	1.11	1.14	1.16	1.18	1.21	1.22	1.22	1.23
		.78	.79	.79	.80	.80	.81	.82	.83	.84	.86	.88	.89	.90	.90	.89	.88	.87	.84	.82	.80	.78	.77	.77	.77
35-45N	11	17.56	16.76	16.05	15.51	15.11	14.73	14.24	13.53	12.57	11.39	10.15	9.06	8.33	8.16	8.64	9.77	11.41	13.35	15.30	16.98	18.17	18.76	18.76	18.30
		1.24	1.23	1.22	1.21	1.21	1.20	1.19	1.17	1.16	1.14	1.13	1.11	1.10	1.10	1.10	1.12	1.14	1.16	1.19	1.21	1.23	1.24	1.25	1.25
		.79	.80	.81	.82	.82	.83	.83	.83	.84	.86	.87	.88	.89	.89	.88	.87	.85	.83	.80	.79	.77	.77	.77	.78
25-35N																									
15-25N	11	29.84	31.01	31.29	30.48	28.55	25.62	21.97	18.01	14.20	10.96	8.58	7.21	6.84	7.35	8.54	10.20	12.15	14.26	16.47	18.76	21.11	23.49	25.85	28.03
		1.44	1.46	1.47	1.46	1.43	1.39	1.33	1.26	1.20	1.15	1.11	1.09	1.08	1.09	1.10	1.13	1.16	1.19	1.22	1.25	1.29	1.33	1.37	1.41
		.68	.68	.69	.70	.73	.75	.79	.82	.85	.88	.89	.90	.90	.89	.88	.86	.84	.82	.80	.77	.75	.73	.71	.69
5-15N																									
5N-5S	05	11.50	9.80	14.20	13.78	19.85	25.97	8.82	5.35	4.47	4.65	6.60	9.72	11.03	11.63	11.43	11.38	11.77	12.43	12.43	11.78	13.92	14.43	0.00	0.00
		1.16	1.09	1.16	1.17	1.26	1.40	1.14	1.08	1.05	1.05	1.06	1.08	1.13	1.17	1.17	1.15	1.16	1.20	1.21	1.19	1.21	1.23	0.00	0.00
		.86	.86	.82	.80	.80	.71	.92	.95	.95	.94	.91	.84	.85	.87	.89	.87	.85	.86	.90	.91	.87	.86	0.00	0.00
5-15S	05	7.40	9.90	17.30	19.30	16.15	15.05	15.90	9.95	5.65	7.75	6.10	7.80	8.65	7.10	7.70	6.10	5.75	6.40	6.95	0.00	0.00	0.00	5.40	0.00
		1.02	1.15	1.12	1.16	1.20	1.17	1.22	1.15	1.06	1.11	1.06	1.12	1.14	1.09	1.12	1.09	1.07	1.07	1.13	0.00	0.00	0.00	1.07	0.00
		.85	.91	.76	.78	.79	.79	.79	.91	.91	.93	.92	.90	.88	.90	.93	.94	.93	.90	.95	0.00	0.00	0.00	.93	0.00
15-25S	05	13.48	13.42	13.43	13.44	13.41	13.31	13.09	12.77	12.37	11.96	11.62	11.43	11.43	11.66	12.06	12.59	13.14	13.63	13.96	14.12	14.11	13.98	13.78	13.60
		1.19	1.19	1.19	1.19	1.18	1.18	1.17	1.17	1.16	1.15	1.14	1.13	1.13	1.14	1.14	1.15	1.16	1.17	1.17	1.18	1.18	1.18	1.18	1.19
		.84	.84	.84	.84	.84	.84	.84	.84	.84	.84	.84	.84	.84	.84	.84	.84	.84	.83	.83	.83	.83	.83	.83	.83
25-35S	05	16.03	16.45	16.28	15.54	14.32	12.78	11.14	9.60	8.31	7.35	6.74	6.43	6.35	6.44	6.63	6.92	7.33	7.90	8.69	9.73	10.99	12.40	13.83	15.10
		1.20	1.21	1.21	1.21	1.19	1.17	1.15	1.13	1.11	1.09	1.09	1.08	1.08	1.08	1.08	1.09	1.09	1.09	1.10	1.11	1.13	1.15	1.17	1.19
		.79	.80	.81	.83	.85	.87	.88	.90	.91	.91	.92	.92	.92	.92	.92	.92	.91	.91	.90	.88	.86	.84	.82	.81
35-45S	05	12.86	13.17	13.23	13.00	12.52	11.83	11.00	10.11	9.25	8.49	7.88	7.44	7.19	7.10	7.16	7.36	7.69	8.14	8.70	9.35	10.09	10.88	11.65	12.33
		1.16	1.17	1.17	1.18	1.17	1.16	1.15	1.14	1.13	1.12	1.11	1.10	1.09	1.09	1.09	1.10	1.10	1.10	1.11	1.12	1.12	1.13	1.14	1.15
		.85	.85	.85	.86	.87	.88	.88	.88	.88	.89	.89	.90	.90	.91	.91	.91	.90	.90	.89	.88	.88	.87	.86	.85
45-55S	05	13.56	13.54	13.24	12.69	11.95	11.08	10.13	9.16	8.20	7.34	6.57	5.98	5.58	5.39	5.46	5.80	6.40	7.26	8.32	9.48	10.67	11.75	12.64	13.26
		1.18	1.19	1.18	1.17	1.16	1.15	1.13	1.12	1.10	1.09	1.08	1.07	1.06	1.06	1.06	1.07	1.08	1.09	1.10	1.12	1.13	1.15	1.17	1.18
		.85	.85	.85	.86	.87	.87	.88	.89	.90	.91	.91	.92	.93	.93	.93	.92	.91	.90	.89	.88	.87	.86	.86	.85
55-65S	05	15.68	16.42	16.85	16.90	16.59	15.92	14.95	13.75	12.41	11.03	9.71	8.54	7.60	6.93	6.58	6.56	6.88	7.51	8.41	9.53	10.80	12.13	13.45	14.66
		1.18	1.19	1.20	1.20	1.20	1.20	1.18	1.16	1.14	1.12	1.10	1.09	1.07	1.07	1.07	1.07	1.08	1.08	1.10	1.11	1.12	1.13	1.15	1.16
		.78	.77	.77	.77	.77	.78	.80	.82	.84	.86	.88	.90	.91	.92	.93	.93	.92	.91	.90	.88	.86	.84	.82	.80

MONTH	00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23	
55-65N	12	18.58	18.31	18.16	18.06	17.91	17.54	16.85	15.78	14.42	12.90	11.45	10.34	9.75	9.85	10.62	11.97	13.67	15.48	17.10	18.34	19.09	19.36	19.26	18.94
		1.27	1.27	1.25	1.25	1.24	1.23	1.22	1.20	1.18	1.16	1.14	1.13	1.12	1.12	1.13	1.15	1.18	1.21	1.24	1.26	1.28	1.28	1.28	1.28
		.82	.82	.83	.83	.83	.83	.83	.84	.85	.86	.87	.87	.88	.88	.87	.86	.85	.83	.82	.81	.80	.80	.81	.82
45-55N	12	15.81	15.34	14.92	14.58	14.26	13.89	13.38	12.68	11.81	10.82	9.86	9.08	8.64	8.65	9.16	10.13	11.42	12.86	14.26	15.41	16.20	16.57	16.56	16.26
		1.21	1.20	1.19	1.19	1.18	1.17	1.17	1.16	1.15	1.13	1.12	1.11	1.10	1.11	1.12	1.13	1.15	1.17	1.19	1.21	1.22	1.22	1.22	1.22
		.81	.82	.82	.83	.83	.83	.84	.85	.86	.87	.88	.89	.89	.89	.89	.88	.87	.85	.83	.82	.81	.81	.80	.81
35-45N	12	13.65	13.26	13.08	13.09	13.17	13.20	13.03	12.58	11.83	10.86	9.84	8.95	8.40	8.32	8.76	9.68	10.92	12.27	13.52	14.44	14.94	14.99	14.68	14.18
		1.20	1.19	1.18	1.18	1.18	1.17	1.17	1.16	1.14	1.13	1.12	1.11	1.11	1.11	1.13	1.14	1.16	1.18	1.20	1.21	1.22	1.21	1.20	1.20
		.85	.86	.86	.86	.86	.85	.85	.85	.86	.87	.88	.89	.89	.90	.89	.88	.87	.85	.84	.84	.83	.83	.84	.85
25-35N																									
15-25N	12	28.60	29.55	29.84	29.32	27.92	25.69	22.82	19.61	16.42	13.60	11.44	10.10	9.63	9.95	10.91	12.33	14.04	15.91	17.83	19.78	21.72	23.64	25.48	27.18
		1.42	1.43	1.43	1.42	1.39	1.35	1.30	1.25	1.21	1.17	1.14	1.12	1.12	1.13	1.14	1.17	1.19	1.22	1.25	1.28	1.31	1.34	1.37	1.40
		.72	.72	.73	.74	.76	.78	.81	.83	.85	.86	.87	.87	.87	.87	.86	.85	.83	.82	.80	.79	.77	.75	.74	.73
5-15N																									
5N-5S	06	13.82	14.07	14.13	13.91	13.35	12.47	11.39	10.28	9.34	8.73	8.54	8.77	9.32	10.04	10.78	11.43	11.92	12.24	12.45	12.59	12.73	12.91	13.17	13.48
		1.20	1.20	1.19	1.18	1.17	1.16	1.14	1.12	1.11	1.10	1.09	1.09	1.10	1.11	1.12	1.13	1.14	1.15	1.16	1.17	1.18	1.19	1.20	1.20
		.86	.85	.84	.83	.83	.84	.85	.86	.87	.88	.88	.87	.86	.85	.84	.84	.84	.84	.85	.86	.87	.88	.88	.87
5-15S	06	14.17	16.81	19.21	20.91	21.58	21.11	19.61	17.43	15.01	12.79	11.07	10.01	9.56	9.53	9.69	9.81	9.78	9.60	9.37	9.30	9.60	10.43	11.87	13.85
		1.01	1.07	1.14	1.20	1.24	1.26	1.25	1.22	1.19	1.16	1.13	1.11	1.11	1.11	1.11	1.11	1.11	1.10	1.10	1.10	1.11	1.12	1.15	1.17
		.67	.65	.65	.67	.69	.72	.75	.78	.81	.83	.85	.86	.86	.86	.85	.85	.85	.86	.87	.88	.88	.88	.87	.84
15-25S	06	14.84	14.76	14.76	14.80	14.84	14.82	14.68	14.42	14.06	13.66	13.30	13.07	13.04	13.23	13.63	14.16	14.72	15.22	15.57	15.73	15.70	15.53	15.28	15.03
		1.21	1.21	1.21	1.21	1.21	1.21	1.21	1.20	1.20	1.19	1.19	1.18	1.18	1.18	1.19	1.19	1.20	1.20	1.21	1.21	1.21	1.21	1.21	1.21
		.83	.83	.84	.84	.85	.85	.86	.86	.86	.86	.86	.86	.85	.85	.85	.85	.84	.84	.83	.83	.82	.82	.82	.82
25-35S	06	13.72	13.52	13.24	12.90	12.49	12.02	11.47	10.85	10.18	9.52	8.91	8.43	8.15	8.10	8.33	8.82	9.53	10.39	11.30	12.15	12.87	13.39	13.70	13.79
		1.18	1.18	1.18	1.18	1.17	1.16	1.16	1.15	1.14	1.13	1.12	1.11	1.11	1.11	1.11	1.12	1.13	1.14	1.15	1.16	1.17	1.18	1.18	1.18
		.84	.85	.85	.86	.86	.87	.87	.88	.88	.89	.89	.89	.90	.90	.89	.89	.88	.87	.86	.86	.85	.84	.84	.84
35-45S	06	12.69	12.55	12.37	12.18	11.98	11.72	11.41	11.00	10.50	9.94	9.39	8.91	8.56	8.43	8.52	8.86	9.40	10.08	10.82	11.51	12.09	12.50	12.72	12.77
		1.17	1.17	1.16	1.16	1.15	1.15	1.15	1.15	1.13	1.13	1.13	1.12	1.11	1.11	1.12	1.12	1.12	1.14	1.15	1.16	1.17	1.17	1.18	1.17
		.86	.86	.86	.86	.86	.86	.87	.87	.88	.88	.89	.89	.90	.90	.90	.89	.88	.88	.87	.87	.86	.86	.86	.86
45-55S	06	12.85	12.65	12.47	12.30	12.10	11.81	11.39	10.82	10.13	9.39	8.69	8.14	7.83	7.83	8.14	8.74	9.56	10.47	11.36	12.14	12.70	13.01	13.10	13.02
		1.17	1.17	1.17	1.17	1.16	1.15	1.15	1.14	1.14	1.12	1.11	1.11	1.10	1.10	1.11	1.12	1.13	1.14	1.15	1.16	1.17	1.17	1.17	1.17
		.85	.86	.86	.86	.86	.86	.86	.87	.88	.89	.89	.90	.90	.90	.90	.89	.88	.87	.86	.86	.85	.85	.85	.85
55-65S	06	19.71	19.93	19.60	18.78	17.58	16.13	14.59	13.11	11.79	10.70	9.85	9.25	8.87	8.70	8.74	9.02	9.59	10.45	11.63	13.06	14.66	16.28	17.77	18.96
		1.31	1.31	1.30	1.28	1.25	1.22	1.19	1.17	1.15	1.13	1.12	1.11	1.10	1.10	1.10	1.11	1.11	1.13	1.15	1.18	1.21	1.24	1.27	1.30
		.82	.82	.81	.81	.81	.82	.83	.84	.86	.87	.88	.89	.89	.89	.89	.89	.88	.88	.87	.86	.85	.85	.84	.83

\*\*\*\*\* ACTIVE MAGNETIC - LOW SOLAR \*\*\*\*\*

MONTH	00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23	
55-65N 03	20.84	20.28	19.61	18.99	18.50	18.14	17.86	17.54	17.09	16.43	15.55	14.53	13.49	12.64	12.16	12.22	12.87	14.07	15.66	17.39	18.99	20.23	20.95	21.13	
	1.28	1.26	1.25	1.24	1.23	1.23	1.23	1.23	1.22	1.22	1.20	1.19	1.18	1.16	1.16	1.15	1.17	1.18	1.21	1.23	1.26	1.27	1.28	1.29	
	.75	.75	.76	.77	.77	.78	.79	.79	.80	.81	.82	.83	.84	.85	.85	.85	.84	.83	.82	.80	.78	.76	.75	.75	
45-55N 03	17.69	17.66	17.57	17.44	17.24	16.97	16.58	16.10	15.53	14.92	14.30	13.75	13.32	13.06	13.03	13.26	13.73	14.38	15.15	15.91	16.60	17.13	17.47	17.65	
	1.21	1.20	1.20	1.20	1.20	1.20	1.21	1.21	1.20	1.19	1.18	1.17	1.16	1.16	1.16	1.17	1.18	1.19	1.20	1.21	1.22	1.22	1.22	1.22	
	.79	.79	.79	.79	.79	.80	.80	.81	.81	.82	.82	.83	.83	.83	.84	.84	.84	.84	.83	.83	.82	.81	.80	.79	
35-45N 03	12.58	12.03	11.76	11.82	12.15	12.63	13.11	13.44	13.53	13.34	12.93	12.41	11.91	11.57	11.51	11.76	12.30	13.01	13.73	14.28	14.53	14.41	13.95	13.28	
	1.17	1.16	1.16	1.16	1.16	1.17	1.18	1.19	1.19	1.19	1.18	1.17	1.17	1.16	1.15	1.16	1.16	1.17	1.18	1.19	1.20	1.20	1.19	1.18	
	.87	.87	.87	.87	.86	.85	.85	.85	.85	.86	.87	.88	.89	.89	.89	.88	.88	.87	.86	.85	.85	.85	.85	.86	
25-35N																									
15-25N 03	23.10	22.83	22.35	21.55	20.35	18.79	16.99	15.17	13.57	12.44	11.94	12.15	13.03	14.44	16.20	18.07	19.84	21.33	22.42	23.10	23.42	23.48	23.41	23.27	
	1.32	1.32	1.31	1.30	1.29	1.26	1.24	1.21	1.18	1.16	1.14	1.15	1.16	1.19	1.22	1.25	1.29	1.32	1.34	1.34	1.35	1.34	1.34	1.33	
	.78	.78	.78	.79	.80	.81	.83	.84	.85	.85	.85	.85	.84	.82	.81	.80	.79	.79	.79	.78	.78	.78	.78	.78	
5-15N																									
5N-5S 09	19.56	22.29	24.29	25.12	24.57	22.73	19.97	16.83	13.88	11.59	10.23	9.80	10.09	10.75	11.41	11.79	11.79	11.45	11.00	10.76	11.06	12.12	14.02	16.61	
	1.25	1.30	1.33	1.34	1.34	1.31	1.28	1.23	1.19	1.16	1.14	1.14	1.14	1.15	1.16	1.16	1.16	1.15	1.14	1.13	1.13	1.15	1.17	1.21	
	.77	.74	.72	.72	.73	.75	.78	.82	.86	.88	.90	.90	.90	.89	.88	.87	.86	.86	.86	.86	.86	.85	.84	.82	.79
5-15S 09	35.87	37.65	37.96	36.55	33.48	29.12	24.07	19.04	14.71	11.58	9.87	9.52	10.26	11.69	13.39	15.07	16.61	18.05	19.56	21.38	23.69	26.53	29.76	33.04	
	1.52	1.55	1.55	1.53	1.49	1.42	1.34	1.26	1.19	1.13	1.10	1.09	1.09	1.12	1.15	1.18	1.22	1.25	1.28	1.32	1.35	1.40	1.44	1.49	
	.65	.66	.67	.70	.74	.78	.82	.85	.87	.87	.87	.86	.85	.84	.82	.81	.80	.79	.78	.76	.73	.71	.68	.66	
15-25S 09	28.97	29.05	28.50	27.43	26.05	24.64	23.45	22.66	22.33	22.37	22.61	22.86	22.95	22.79	22.41	21.96	21.62	21.58	21.97	22.84	24.10	25.59	27.06	28.27	
	1.39	1.41	1.42	1.41	1.38	1.35	1.33	1.31	1.30	1.31	1.32	1.34	1.36	1.37	1.36	1.35	1.32	1.30	1.28	1.27	1.27	1.29	1.33	1.36	
	.76	.76	.77	.78	.79	.80	.80	.81	.81	.81	.80	.80	.80	.80	.80	.80	.81	.80	.80	.79	.78	.77	.77	.76	
25-35S 09	17.63	17.08	16.37	15.59	14.86	14.24	13.80	13.56	13.49	13.55	13.68	13.83	13.97	14.09	14.24	14.46	14.80	15.28	15.88	16.55	17.18	17.68	17.95	17.93	
	1.25	1.25	1.24	1.22	1.21	1.20	1.19	1.19	1.18	1.19	1.19	1.19	1.20	1.20	1.20	1.20	1.21	1.21	1.22	1.23	1.24	1.25	1.25	1.26	
	.81	.81	.82	.82	.83	.84	.84	.85	.85	.86	.86	.87	.87	.87	.87	.87	.87	.86	.85	.84	.83	.82	.81	.81	
35-45S 09	14.85	14.75	14.68	14.65	14.63	14.58	14.44	14.19	13.82	13.34	12.81	12.28	11.85	11.57	11.51	11.68	12.10	12.67	13.33	13.95	14.46	14.80	14.94	14.93	
	1.20	1.19	1.18	1.17	1.17	1.17	1.17	1.17	1.17	1.17	1.17	1.17	1.16	1.16	1.15	1.16	1.16	1.18	1.18	1.20	1.21	1.21	1.22	1.21	
	.85	.84	.83	.82	.82	.82	.83	.84	.85	.86	.87	.88	.88	.88	.88	.88	.88	.88	.87	.87	.87	.87	.86	.86	.85
45-55S 09	18.76	19.36	19.55	19.28	18.61	17.65	16.58	15.54	14.67	14.04	13.65	13.44	13.35	13.28	13.20	13.11	13.07	13.12	13.36	13.86	14.61	15.60	16.72	17.82	
	1.21	1.22	1.22	1.23	1.23	1.23	1.22	1.21	1.20	1.19	1.18	1.17	1.16	1.16	1.16	1.16	1.17	1.17	1.18	1.18	1.19	1.19	1.19	1.20	
	.80	.79	.79	.78	.79	.79	.80	.81	.82	.82	.83	.83	.84	.84	.85	.85	.85	.85	.85	.85	.85	.85	.84	.83	.81
55-65S 09	20.60	20.61	20.10	19.16	17.96	16.66	15.44	14.41	13.63	13.09	12.74	12.49	12.27	12.08	11.94	11.93	12.16	12.71	13.61	14.82	16.25	17.72	19.05	20.05	
	1.28	1.29	1.28	1.27	1.26	1.24	1.21	1.20	1.18	1.17	1.17	1.17	1.16	1.16	1.16	1.15	1.16	1.16	1.17	1.18	1.20	1.23	1.25	1.27	
	.81	.82	.84	.85	.86	.87	.87	.87	.86	.85	.85	.85	.85	.85	.85	.86	.86	.86	.85	.84	.83	.81	.80	.80	.80



MONTH	00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23
55-65N 04	20.43	20.66	20.25	19.36	18.22	17.08	16.14	15.53	15.24	15.19	15.20	15.10	14.76	14.16	13.38	12.60	12.02	11.86	12.26	13.24	14.70	16.43	18.14	19.55
	1.27	1.28	1.28	1.27	1.25	1.23	1.21	1.20	1.19	1.18	1.17	1.17	1.17	1.15	1.15	1.14	1.13	1.14	1.14	1.16	1.18	1.21	1.23	1.26
	.76	.76	.76	.77	.78	.79	.80	.80	.80	.79	.79	.78	.79	.80	.81	.82	.83	.83	.83	.82	.81	.79	.78	.76
45-55N 04	18.39	18.85	19.04	18.94	18.58	18.05	17.48	16.97	16.61	16.43	16.39	16.44	16.48	16.44	16.28	16.00	15.69	15.42	15.29	15.38	15.71	16.26	16.97	17.72
	1.21	1.21	1.22	1.22	1.22	1.23	1.23	1.23	1.23	1.24	1.23	1.23	1.23	1.22	1.21	1.20	1.19	1.19	1.18	1.18	1.19	1.20	1.20	1.21
	.75	.75	.75	.77	.78	.79	.80	.81	.82	.81	.81	.80	.80	.79	.80	.80	.80	.80	.80	.79	.78	.77	.76	.75
35-45N 04	14.72	14.60	14.43	14.23	13.99	13.70	13.34	12.92	12.49	12.06	11.71	11.46	11.35	11.39	11.59	11.92	12.36	12.86	13.39	13.88	14.29	14.59	14.75	14.78
	1.19	1.19	1.18	1.18	1.17	1.17	1.16	1.15	1.14	1.14	1.14	1.14	1.14	1.14	1.15	1.16	1.16	1.17	1.18	1.18	1.19	1.19	1.20	1.20
	.83	.83	.83	.83	.82	.82	.82	.82	.83	.84	.85	.85	.86	.86	.87	.86	.85	.85	.84	.83	.83	.83	.83	.83
25-35N																								
15-25N 04	29.02	28.36	27.30	25.88	24.17	22.29	20.38	18.59	17.09	16.01	15.42	15.36	15.78	16.63	17.85	19.33	20.99	22.74	24.46	26.05	27.40	28.42	29.05	29.25
	1.40	1.40	1.39	1.37	1.35	1.32	1.28	1.25	1.22	1.19	1.18	1.17	1.17	1.18	1.21	1.23	1.26	1.29	1.32	1.35	1.37	1.38	1.40	1.40
	.75	.76	.77	.78	.78	.79	.79	.79	.79	.79	.79	.79	.78	.77	.76	.75	.74	.73	.72	.72	.72	.72	.73	.74
5-15N																								
5N-5S 10	22.00	25.47	28.15	29.52	29.28	27.42	24.28	20.45	16.61	13.36	11.12	10.00	9.84	10.28	10.90	11.34	11.44	11.23	10.92	10.86	11.41	12.83	15.20	18.38
	1.33	1.40	1.46	1.48	1.48	1.45	1.39	1.33	1.26	1.20	1.17	1.15	1.15	1.15	1.16	1.16	1.16	1.14	1.13	1.12	1.13	1.15	1.20	1.26
	.77	.76	.76	.77	.79	.81	.84	.86	.88	.90	.90	.90	.90	.90	.90	.89	.89	.88	.87	.86	.84	.82	.80	.78
5-15S 10	29.47	31.20	32.16	32.12	30.97	28.77	25.72	22.17	18.53	15.21	12.54	10.72	9.81	9.72	10.32	11.39	12.79	14.38	16.13	18.04	20.13	22.41	24.82	27.24
	1.44	1.48	1.51	1.52	1.50	1.46	1.40	1.33	1.26	1.19	1.14	1.11	1.10	1.10	1.12	1.14	1.16	1.19	1.21	1.23	1.26	1.30	1.34	1.39
	.70	.70	.71	.72	.74	.75	.77	.79	.81	.83	.85	.87	.88	.88	.87	.86	.85	.82	.80	.78	.75	.73	.72	.71
15-25S 10	16.55	16.72	17.01	17.31	17.48	17.39	16.98	16.28	15.38	14.43	13.60	13.05	12.88	13.13	13.75	14.60	15.51	16.32	16.90	17.18	17.18	16.98	16.73	16.56
	1.24	1.23	1.22	1.22	1.22	1.23	1.23	1.22	1.20	1.18	1.17	1.15	1.15	1.15	1.15	1.17	1.19	1.22	1.24	1.26	1.27	1.27	1.26	1.25
	.83	.82	.81	.79	.79	.79	.80	.81	.82	.83	.83	.83	.83	.82	.81	.81	.81	.81	.82	.82	.83	.84	.84	.84
25-35S 10	17.48	18.32	18.85	18.99	18.73	18.16	17.43	16.72	16.18	15.87	15.80	15.91	16.07	16.18	16.13	15.91	15.53	15.07	14.67	14.44	14.50	14.89	15.59	16.50
	1.24	1.25	1.26	1.27	1.27	1.26	1.25	1.23	1.22	1.20	1.19	1.19	1.19	1.19	1.20	1.20	1.20	1.20	1.20	1.20	1.20	1.20	1.21	1.22
	.80	.79	.79	.79	.79	.80	.80	.81	.81	.81	.80	.80	.80	.80	.80	.81	.81	.82	.83	.83	.83	.83	.82	.81
35-45S 10	15.39	16.03	16.75	17.41	17.88	18.08	17.94	17.51	16.85	16.10	15.38	14.80	14.44	14.30	14.35	14.51	14.71	14.83	14.86	14.80	14.68	14.61	14.67	14.92
	1.18	1.18	1.19	1.20	1.21	1.22	1.23	1.23	1.22	1.21	1.20	1.19	1.19	1.18	1.19	1.19	1.19	1.20	1.20	1.20	1.20	1.19	1.19	1.18
	.80	.79	.78	.77	.77	.77	.77	.78	.79	.80	.81	.82	.83	.84	.84	.84	.84	.84	.83	.83	.82	.82	.81	.81
45-55S 10	16.65	17.10	17.38	17.48	17.42	17.28	17.14	17.07	17.13	17.30	17.53	17.74	17.85	17.79	17.53	17.07	16.50	15.92	15.42	15.11	15.04	15.23	15.61	16.13
	1.21	1.22	1.23	1.23	1.24	1.24	1.25	1.25	1.25	1.25	1.25	1.26	1.26	1.26	1.25	1.25	1.24	1.24	1.23	1.22	1.21	1.21	1.21	1.21
	.78	.78	.77	.78	.79	.80	.81	.82	.82	.81	.81	.80	.80	.81	.82	.83	.84	.84	.85	.85	.84	.83	.82	.80
55-65S 10	19.36	19.37	18.84	17.91	16.81	15.79	15.08	14.80	14.95	15.41	15.98	16.43	16.60	16.42	15.92	15.25	14.61	14.21	14.21	14.68	15.55	16.68	17.85	18.81
	1.26	1.26	1.26	1.26	1.25	1.24	1.24	1.24	1.25	1.26	1.27	1.27	1.27	1.26	1.25	1.24	1.22	1.21	1.20	1.20	1.21	1.22	1.23	1.25
	.78	.78	.80	.82	.84	.86	.87	.87	.87	.86	.85	.84	.83	.83	.84	.84	.85	.85	.84	.83	.82	.80	.79	.78

MONTH	00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23
55-65N 09	20.98	21.08	20.68	19.88	18.81	17.67	16.60	15.68	14.97	14.43	13.99	13.57	13.11	12.63	12.19	11.92	11.95	12.38	13.26	14.53	16.08	17.70	19.18	20.31
	1.28	1.29	1.29	1.28	1.26	1.24	1.22	1.20	1.19	1.18	1.17	1.17	1.16	1.15	1.15	1.14	1.14	1.14	1.14	1.16	1.18	1.21	1.24	1.26
	.75	.76	.77	.78	.79	.80	.81	.81	.82	.82	.82	.83	.84	.85	.86	.85	.85	.84	.82	.80	.78	.76	.75	.75
45-55N 09	19.77	19.74	19.45	18.96	18.35	17.68	17.02	16.43	15.92	15.49	15.13	14.81	14.53	14.29	14.16	14.17	14.39	14.85	15.54	16.39	17.32	18.22	18.98	19.50
	1.24	1.24	1.24	1.23	1.23	1.22	1.21	1.20	1.20	1.19	1.19	1.19	1.18	1.18	1.18	1.19	1.19	1.19	1.20	1.21	1.22	1.22	1.23	1.23
	.73	.73	.74	.74	.75	.76	.77	.78	.79	.80	.81	.82	.82	.83	.84	.83	.83	.82	.81	.79	.77	.75	.74	.73
35-45N 09	13.89	13.96	14.06	14.17	14.26	14.30	14.23	14.02	13.66	13.17	12.59	12.00	11.48	11.11	10.94	11.00	11.27	11.70	12.21	12.72	13.16	13.49	13.70	13.82
	1.18	1.18	1.18	1.18	1.18	1.18	1.18	1.18	1.18	1.17	1.17	1.16	1.15	1.14	1.14	1.14	1.15	1.15	1.16	1.17	1.18	1.18	1.18	1.18
	.83	.83	.83	.83	.83	.83	.83	.84	.84	.85	.86	.87	.87	.88	.89	.88	.88	.87	.86	.85	.84	.83	.83	.83
25-35N																								
15-25N 09	27.99	27.12	26.18	25.11	23.86	22.41	20.81	19.17	17.64	16.41	15.64	15.46	15.93	17.04	18.72	20.82	23.10	25.32	27.23	28.63	29.43	29.63	29.36	28.76
	1.39	1.37	1.35	1.32	1.30	1.28	1.26	1.24	1.22	1.20	1.19	1.17	1.17	1.18	1.20	1.23	1.27	1.32	1.36	1.40	1.42	1.43	1.43	1.41
	.77	.77	.77	.77	.78	.79	.80	.81	.81	.81	.80	.79	.77	.74	.72	.71	.70	.70	.71	.72	.73	.75	.76	.77
5-15N																								
5N-5S 03	17.62	18.82	19.73	20.09	19.77	18.78	17.26	15.49	13.80	12.46	11.67	11.49	11.82	12.47	13.23	13.88	14.30	14.46	14.42	14.33	14.36	14.68	15.35	16.37
	1.22	1.25	1.27	1.29	1.29	1.28	1.26	1.23	1.19	1.16	1.14	1.14	1.14	1.16	1.18	1.19	1.20	1.21	1.20	1.20	1.19	1.18	1.19	1.20
	.79	.78	.77	.77	.78	.79	.80	.82	.83	.83	.83	.83	.83	.83	.83	.83	.83	.83	.83	.83	.83	.82	.81	.80
5-15S 03	23.96	25.85	27.14	27.57	26.96	25.33	22.89	19.97	16.98	14.32	12.27	10.97	10.42	10.49	10.97	11.68	12.47	13.27	14.11	15.08	16.29	17.81	19.67	21.78
	1.31	1.34	1.37	1.38	1.38	1.35	1.32	1.27	1.23	1.19	1.15	1.14	1.13	1.13	1.14	1.15	1.16	1.17	1.18	1.18	1.20	1.21	1.24	1.27
	.71	.70	.70	.71	.72	.74	.76	.78	.81	.83	.85	.86	.87	.87	.87	.87	.85	.84	.82	.80	.77	.75	.73	.72
15-25S 03	19.34	19.30	19.25	19.05	18.59	17.86	16.95	16.03	15.31	14.97	15.10	15.73	16.76	18.05	19.39	20.58	21.47	21.96	22.01	21.69	21.12	20.47	19.90	19.51
	1.27	1.27	1.26	1.26	1.26	1.25	1.24	1.23	1.22	1.22	1.23	1.24	1.25	1.27	1.29	1.31	1.32	1.33	1.33	1.32	1.31	1.30	1.29	1.28
	.77	.77	.76	.77	.78	.79	.80	.82	.83	.84	.84	.83	.83	.82	.81	.80	.80	.80	.79	.79	.79	.79	.78	.77
25-35S 03	13.39	13.49	13.63	13.76	13.80	13.74	13.60	13.43	13.28	13.22	13.29	13.49	13.78	14.13	14.46	14.73	14.87	14.86	14.71	14.44	14.11	13.78	13.52	13.39
	1.20	1.19	1.19	1.19	1.18	1.18	1.18	1.18	1.17	1.18	1.18	1.18	1.18	1.18	1.18	1.19	1.19	1.19	1.19	1.19	1.20	1.20	1.20	1.20
	.86	.85	.85	.84	.83	.83	.83	.83	.83	.83	.83	.83	.83	.83	.82	.82	.82	.83	.83	.84	.85	.86	.86	.86
35-45S 03	12.33	12.17	12.14	12.23	12.44	12.75	13.10	13.49	13.86	14.18	14.45	14.64	14.75	14.79	14.76	14.69	14.56	14.40	14.18	13.93	13.63	13.29	12.93	12.60
	1.16	1.15	1.15	1.15	1.15	1.16	1.16	1.16	1.17	1.18	1.18	1.19	1.19	1.19	1.19	1.19	1.19	1.19	1.19	1.19	1.18	1.18	1.17	1.16
	.85	.85	.85	.85	.85	.84	.84	.83	.83	.82	.83	.83	.83	.83	.84	.84	.85	.85	.85	.85	.84	.85	.85	.85
45-55S 03	15.08	15.11	15.20	15.31	15.40	15.44	15.43	15.40	15.38	15.38	15.44	15.58	15.76	15.96	16.15	16.28	16.35	16.31	16.19	15.99	15.74	15.49	15.27	15.14
	1.19	1.19	1.19	1.19	1.19	1.19	1.20	1.19	1.19	1.19	1.18	1.18	1.18	1.18	1.19	1.19	1.20	1.20	1.20	1.20	1.20	1.20	1.20	1.19
	.82	.81	.81	.80	.80	.81	.81	.81	.81	.81	.81	.81	.81	.80	.80	.80	.80	.81	.81	.81	.82	.82	.82	.82
55-65S 03	18.43	18.43	18.12	17.60	17.02	16.52	16.20	16.13	16.26	16.52	16.77	16.90	16.81	16.49	16.00	15.43	14.95	14.68	14.73	15.12	15.79	16.62	17.43	18.08
	1.25	1.26	1.26	1.25	1.25	1.25	1.24	1.24	1.24	1.24	1.24	1.24	1.23	1.23	1.21	1.20	1.19	1.19	1.19	1.19	1.20	1.22	1.23	1.24
	.78	.79	.81	.82	.84	.85	.85	.85	.84	.83	.82	.81	.81	.81	.81	.81	.82	.82	.81	.81	.80	.79	.78	.78

MONTH	00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23
55-65N 10	21.31	20.46	19.74	19.25	18.99	18.87	18.74	18.45	17.91	17.09	16.06	14.97	14.06	13.52	13.53	14.19	15.43	17.10	18.92	20.59	21.84	22.51	22.56	22.09
	1.31	1.29	1.27	1.26	1.26	1.27	1.27	1.27	1.26	1.25	1.23	1.22	1.20	1.19	1.18	1.20	1.22	1.24	1.28	1.30	1.32	1.33	1.33	1.32
	.78	.78	.78	.78	.78	.79	.79	.79	.80	.81	.82	.83	.83	.84	.84	.84	.82	.81	.80	.79	.78	.77	.77	.77
45-55N 10	19.55	18.76	18.18	17.88	17.82	17.92	18.04	18.07	17.94	17.62	17.19	16.73	16.40	16.33	16.63	17.31	18.31	19.45	20.55	21.38	21.79	21.72	21.23	20.44
	1.26	1.24	1.23	1.23	1.22	1.23	1.23	1.23	1.22	1.22	1.21	1.20	1.20	1.20	1.21	1.23	1.25	1.27	1.29	1.31	1.31	1.31	1.29	1.28
	.78	.78	.77	.77	.76	.76	.76	.75	.75	.75	.75	.76	.77	.78	.79	.79	.79	.79	.79	.79	.79	.78	.78	.78
35-45N 10	16.59	16.11	15.82	15.71	15.71	15.70	15.59	15.29	14.82	14.22	13.61	13.12	12.89	13.01	13.53	14.38	15.44	16.54	17.49	18.13	18.39	18.25	17.80	17.20
	1.23	1.21	1.21	1.20	1.20	1.20	1.20	1.19	1.19	1.18	1.16	1.16	1.15	1.16	1.17	1.18	1.20	1.21	1.23	1.24	1.25	1.25	1.25	1.24
	.84	.85	.85	.85	.84	.84	.85	.85	.85	.85	.86	.87	.88	.88	.88	.87	.86	.84	.83	.82	.81	.81	.82	.82
25-35N																								
15-25N 10	30.24	30.47	30.04	28.81	26.75	24.03	20.96	17.92	15.31	13.43	12.48	12.47	13.32	14.84	16.79	18.92	21.01	22.89	24.47	25.77	26.86	27.83	28.75	29.60
	1.40	1.40	1.40	1.39	1.37	1.34	1.30	1.25	1.21	1.18	1.16	1.15	1.16	1.18	1.21	1.25	1.29	1.32	1.35	1.37	1.38	1.38	1.39	1.39
	.73	.73	.73	.75	.76	.79	.81	.83	.85	.85	.85	.84	.82	.80	.78	.77	.76	.76	.76	.76	.75	.75	.75	.74
5-15N																								
5N-5S 04	17.05	20.35	23.13	24.81	25.05	23.79	21.30	18.11	14.88	12.17	10.38	9.63	9.76	10.41	11.16	11.62	11.59	11.06	10.23	9.47	9.19	9.73	11.30	13.83
	1.23	1.26	1.28	1.29	1.29	1.27	1.24	1.21	1.19	1.17	1.16	1.16	1.17	1.18	1.18	1.18	1.17	1.16	1.15	1.14	1.14	1.15	1.16	1.19
	.81	.78	.74	.72	.72	.73	.76	.80	.83	.87	.89	.90	.90	.90	.88	.87	.87	.87	.87	.88	.88	.88	.87	.84
5-15S 04	27.33	30.19	32.04	32.56	31.60	29.31	26.02	22.26	18.57	15.43	13.14	11.77	11.21	11.20	11.45	11.74	11.98	12.25	12.72	13.64	15.22	17.55	20.54	23.93
	1.35	1.39	1.42	1.43	1.41	1.38	1.33	1.28	1.22	1.18	1.15	1.13	1.12	1.12	1.13	1.13	1.13	1.14	1.14	1.15	1.17	1.21	1.25	1.30
	.64	.64	.64	.67	.71	.75	.78	.81	.83	.84	.84	.83	.83	.83	.83	.83	.84	.84	.83	.81	.78	.75	.71	.67
15-25S 04	18.49	18.42	18.20	17.76	17.16	16.53	16.11	16.10	16.65	17.81	19.46	21.36	23.20	24.66	25.51	25.64	25.09	24.01	22.66	21.28	20.09	19.24	18.74	18.53
	1.27	1.26	1.24	1.21	1.20	1.19	1.19	1.20	1.23	1.27	1.31	1.36	1.39	1.42	1.43	1.43	1.41	1.39	1.36	1.34	1.32	1.31	1.30	1.28
	.82	.82	.81	.80	.80	.81	.81	.82	.82	.83	.82	.82	.81	.81	.80	.80	.81	.81	.82	.83	.83	.83	.83	.83
25-35S 04	17.36	16.31	15.21	14.20	13.40	12.85	12.57	12.53	12.67	12.92	13.20	13.45	13.66	13.85	14.09	14.44	14.98	15.73	16.61	17.50	18.23	18.64	18.63	18.17
	1.24	1.22	1.20	1.19	1.18	1.17	1.17	1.18	1.18	1.18	1.19	1.19	1.18	1.18	1.18	1.19	1.20	1.22	1.24	1.25	1.27	1.27	1.27	1.26
	.83	.84	.84	.85	.86	.86	.87	.87	.87	.86	.86	.85	.84	.83	.82	.82	.81	.81	.81	.81	.82	.82	.83	.83
35-45S 04	15.03	14.75	14.56	14.43	14.35	14.23	14.05	13.79	13.46	13.14	12.87	12.73	12.76	12.99	13.40	13.92	14.52	15.09	15.57	15.88	16.00	15.92	15.69	15.36
	1.20	1.19	1.19	1.19	1.19	1.18	1.18	1.18	1.18	1.17	1.17	1.18	1.18	1.19	1.20	1.21	1.22	1.22	1.22	1.22	1.22	1.22	1.21	1.20
	.86	.86	.85	.85	.84	.84	.83	.84	.84	.85	.85	.85	.86	.85	.85	.84	.84	.84	.84	.84	.84	.84	.85	.86
45-55S 04	15.70	15.45	15.43	15.60	15.88	16.15	16.31	16.29	16.10	15.77	15.41	15.11	14.97	15.06	15.38	15.88	16.48	17.04	17.46	17.64	17.54	17.19	16.69	16.15
	1.18	1.18	1.19	1.19	1.20	1.21	1.21	1.21	1.19	1.18	1.17	1.16	1.16	1.16	1.18	1.19	1.20	1.22	1.22	1.23	1.22	1.21	1.20	1.18
	.80	.80	.80	.80	.80	.81	.81	.81	.81	.81	.81	.80	.81	.82	.81	.81	.81	.81	.81	.80	.80	.79	.79	.79
55-65S 04	21.83	22.01	22.18	22.29	22.26	22.03	21.55	20.87	20.04	19.19	18.44	17.88	17.57	17.54	17.75	18.18	18.74	19.36	19.98	20.53	20.97	21.29	21.51	21.67
	1.26	1.28	1.29	1.31	1.33	1.33	1.33	1.31	1.29	1.27	1.25	1.24	1.23	1.23	1.24	1.25	1.25	1.26	1.26	1.26	1.25	1.25	1.25	1.25
	.72	.73	.76	.78	.80	.81	.81	.81	.80	.79	.79	.78	.78	.78	.78	.78	.78	.77	.76	.74	.73	.71	.71	.71

\*\*\*\*\* ACTIVE MAGNETIC -- SOLAR RANGE 41- 109 \*\*\*\*\*

MONTH	00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23
55-65N 03	21.53	21.64	21.42	20.97	20.40	19.83	19.30	18.86	18.46	18.06	17.58	16.99	16.29	15.55	14.88	14.42	14.32	14.63	15.37	16.45	17.73	19.04	20.18	21.04
	1.28	1.28	1.28	1.28	1.27	1.27	1.27	1.26	1.25	1.24	1.22	1.21	1.19	1.17	1.16	1.15	1.16	1.17	1.19	1.21	1.23	1.26	1.27	1.28
	.76	.76	.76	.77	.77	.78	.78	.78	.78	.78	.78	.78	.78	.78	.79	.80	.80	.80	.80	.79	.78	.78	.77	.76
45-55N 03	18.11	18.41	18.53	18.49	18.35	18.17	17.99	17.84	17.72	17.59	17.40	17.12	16.74	16.25	15.73	15.24	14.88	14.72	14.81	15.14	15.67	16.32	17.00	17.62
	1.22	1.23	1.23	1.23	1.23	1.22	1.22	1.21	1.20	1.19	1.18	1.17	1.15	1.15	1.15	1.15	1.15	1.15	1.16	1.17	1.18	1.20	1.21	1.21
	.79	.79	.78	.78	.78	.78	.77	.76	.75	.75	.74	.74	.74	.75	.76	.77	.78	.79	.79	.79	.79	.79	.79	.79
35-45N 03	13.64	13.26	13.04	12.99	13.03	13.07	12.97	12.66	12.10	11.34	10.51	9.75	9.22	9.06	9.32	9.99	10.96	12.07	13.14	13.99	14.51	14.66	14.48	14.09
	1.20	1.19	1.18	1.18	1.17	1.17	1.17	1.16	1.15	1.14	1.13	1.13	1.12	1.12	1.12	1.13	1.15	1.17	1.18	1.20	1.21	1.21	1.21	1.21
	.87	.87	.86	.86	.85	.84	.84	.84	.85	.86	.87	.88	.89	.90	.89	.89	.88	.87	.87	.86	.85	.86	.86	.86
25-35N																								
15-25N 03	30.30	31.31	31.89	31.85	30.97	29.14	26.41	22.96	19.16	15.43	12.23	9.89	8.63	8.52	9.45	11.24	13.60	16.27	18.98	21.54	23.83	25.82	27.54	29.02
	1.49	1.49	1.48	1.45	1.41	1.36	1.31	1.25	1.20	1.16	1.14	1.12	1.11	1.11	1.13	1.14	1.17	1.21	1.25	1.29	1.34	1.39	1.43	1.47
	.75	.76	.77	.77	.78	.80	.81	.83	.85	.87	.89	.90	.90	.90	.88	.86	.83	.80	.78	.76	.75	.74	.74	.75
5-15N																								
5N-5S 09	15.95	18.75	21.38	23.31	24.12	23.63	21.91	19.33	16.39	13.62	11.47	10.15	9.67	9.85	10.38	10.93	11.26	11.27	10.98	10.59	10.38	10.66	11.66	13.45
	1.22	1.27	1.31	1.35	1.37	1.36	1.34	1.30	1.25	1.20	1.17	1.14	1.14	1.14	1.15	1.16	1.17	1.17	1.16	1.15	1.15	1.15	1.16	1.18
	.80	.78	.75	.74	.74	.76	.78	.81	.84	.87	.88	.89	.90	.89	.89	.88	.88	.88	.88	.88	.88	.87	.85	.83
5-15S 09	0.00	18.80	20.00	27.40	26.20	30.00	24.30	9.90	10.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	0.00	1.20	1.23	1.21	1.39	1.42	1.39	1.12	1.15	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	0.00	.73	.76	.56	.67	.83	.78	.85	.87	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
15-25S 09	27.19	25.57	23.87	22.25	20.73	19.32	17.96	16.62	15.31	14.10	13.10	12.46	12.33	12.84	14.07	15.99	18.47	21.27	24.06	26.50	28.29	29.22	29.25	28.51
	1.28	1.29	1.29	1.29	1.28	1.27	1.25	1.22	1.19	1.17	1.15	1.15	1.15	1.16	1.17	1.19	1.21	1.22	1.24	1.25	1.26	1.26	1.27	1.28
	.77	.77	.77	.78	.78	.79	.80	.82	.83	.84	.84	.84	.83	.82	.81	.79	.78	.77	.77	.77	.77	.77	.77	.77
25-35S 09	16.54	16.73	16.80	16.70	16.39	15.83	15.03	14.04	12.93	11.82	10.82	10.05	9.59	9.49	9.74	10.31	11.11	12.05	13.02	13.93	14.72	15.37	15.87	16.26
	1.21	1.22	1.23	1.24	1.25	1.24	1.23	1.21	1.19	1.16	1.14	1.12	1.11	1.11	1.12	1.13	1.15	1.17	1.18	1.19	1.19	1.19	1.20	1.20
	.78	.79	.80	.82	.83	.84	.85	.86	.86	.87	.87	.88	.89	.89	.89	.89	.88	.87	.85	.83	.81	.80	.79	.78
35-45S 09	15.40	15.64	15.81	15.89	15.85	15.65	15.28	14.75	14.10	13.37	12.67	12.03	11.53	11.22	11.11	11.22	11.52	11.97	12.53	13.14	13.74	14.27	14.73	15.10
	1.20	1.19	1.19	1.18	1.18	1.18	1.18	1.18	1.18	1.17	1.17	1.15	1.14	1.15	1.14	1.14	1.15	1.16	1.17	1.17	1.19	1.20	1.20	1.20
	.80	.78	.78	.77	.78	.78	.79	.80	.82	.84	.85	.87	.88	.88	.89	.89	.88	.88	.87	.86	.85	.84	.82	.81
45-55S 09	18.04	18.74	19.22	19.44	19.41	19.11	18.56	17.78	16.83	15.78	14.72	13.70	12.82	12.13	11.66	11.45	11.51	11.84	12.42	13.20	14.14	15.17	16.19	17.18
	1.20	1.20	1.21	1.21	1.20	1.20	1.19	1.18	1.17	1.16	1.14	1.13	1.12	1.11	1.11	1.11	1.11	1.12	1.13	1.14	1.16	1.16	1.18	1.19
	.75	.73	.72	.72	.72	.72	.73	.75	.76	.78	.80	.82	.83	.84	.85	.85	.86	.85	.84	.83	.82	.80	.78	.76
55-65S 09	22.19	22.45	22.04	21.07	19.75	18.30	16.93	15.78	14.89	14.25	13.75	13.29	12.80	12.25	11.71	11.33	11.25	11.63	12.55	13.99	15.82	17.82	19.72	21.24
	1.31	1.31	1.30	1.28	1.26	1.23	1.20	1.18	1.17	1.16	1.15	1.15	1.14	1.14	1.13	1.13	1.14	1.15	1.16	1.19	1.22	1.25	1.28	1.30
	.76	.75	.75	.75	.76	.76	.77	.78	.79	.79	.80	.81	.82	.83	.84	.85	.86	.86	.85	.84	.82	.80	.79	.77

MONTH	00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23
55-65N 04	21.46	21.66	21.53	21.18	20.80	20.52	20.43	20.51	20.66	20.75	20.62	20.18	19.39	18.34	17.18	16.12	15.38	15.11	15.36	16.13	17.27	18.57	19.83	20.83
	1.25	1.25	1.26	1.27	1.27	1.28	1.28	1.29	1.29	1.29	1.29	1.27	1.26	1.23	1.21	1.19	1.18	1.17	1.17	1.18	1.19	1.21	1.22	1.24
	.69	.70	.71	.73	.75	.76	.77	.77	.77	.76	.76	.75	.76	.76	.77	.77	.78	.78	.77	.76	.74	.73	.71	.70
45-55N 04	18.69	19.04	19.29	19.48	19.62	19.77	19.94	20.13	20.30	20.39	20.33	20.09	19.65	19.05	18.35	17.65	17.05	16.64	16.46	16.52	16.79	17.22	17.73	18.23
	1.21	1.22	1.23	1.24	1.25	1.26	1.27	1.27	1.28	1.28	1.28	1.27	1.27	1.26	1.24	1.23	1.22	1.21	1.20	1.20	1.19	1.20	1.20	1.21
	.74	.74	.74	.75	.75	.76	.76	.77	.77	.77	.77	.77	.77	.77	.77	.78	.78	.79	.78	.78	.77	.76	.76	.75
35-45N 04	11.74	11.84	12.12	12.57	13.08	13.54	13.82	13.83	13.54	12.98	12.25	11.47	10.79	10.33	10.15	10.26	10.59	11.06	11.53	11.90	12.08	12.09	11.97	11.82
	1.14	1.14	1.14	1.14	1.15	1.15	1.15	1.15	1.14	1.14	1.13	1.12	1.11	1.11	1.11	1.11	1.12	1.13	1.14	1.14	1.15	1.14	1.14	1.14
	.85	.85	.84	.83	.82	.81	.81	.81	.82	.82	.83	.84	.85	.86	.86	.86	.86	.86	.85	.85	.85	.86	.86	.86
25-35N																								
15-25N 04	23.25	23.61	23.57	23.04	22.00	20.48	18.59	16.51	14.44	12.59	11.15	10.21	9.85	10.03	10.69	11.75	13.09	14.59	16.16	17.70	19.15	20.47	21.61	22.56
	1.31	1.32	1.33	1.32	1.31	1.29	1.26	1.23	1.19	1.16	1.14	1.12	1.11	1.11	1.12	1.14	1.16	1.19	1.21	1.23	1.25	1.27	1.29	1.30
	.75	.75	.76	.77	.78	.79	.81	.83	.85	.86	.87	.88	.88	.88	.87	.86	.85	.83	.82	.80	.78	.77	.76	.75
5-15N																								
5N-5S 10	17.89	20.11	21.96	23.07	23.16	22.16	20.20	17.60	14.81	12.26	10.29	9.07	8.58	8.69	9.14	9.70	10.20	10.55	10.80	11.08	11.57	12.45	13.82	15.68
	1.26	1.30	1.33	1.34	1.34	1.33	1.29	1.25	1.21	1.16	1.13	1.11	1.11	1.11	1.12	1.14	1.15	1.15	1.16	1.16	1.17	1.18	1.20	1.23
	.81	.80	.78	.78	.78	.79	.81	.83	.85	.87	.89	.90	.90	.90	.90	.89	.89	.88	.88	.87	.87	.86	.84	.83
5-15S 10	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
15-25S 10	19.55	20.24	20.72	20.86	20.52	19.62	18.17	16.29	14.17	12.05	10.19	8.79	7.98	7.82	8.25	9.17	10.43	11.86	13.31	14.67	15.88	16.94	17.88	18.75
	1.24	1.25	1.26	1.26	1.25	1.25	1.23	1.21	1.19	1.16	1.14	1.12	1.10	1.10	1.10	1.11	1.12	1.14	1.16	1.18	1.20	1.21	1.23	1.24
	.80	.80	.80	.80	.80	.81	.82	.84	.86	.88	.89	.90	.91	.91	.90	.89	.87	.86	.84	.83	.82	.82	.81	.80
25-35S 10	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	10.80	10.40	10.20	11.50	9.60	10.00	8.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.13	1.09	1.09	1.12	1.12	1.14	1.12	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	.93	.88	.86	.90	.88	.84	.92	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
35-45S 10	11.18	12.95	14.81	16.43	17.55	18.01	17.83	17.14	16.22	15.35	14.77	14.63	14.91	15.43	15.92	16.10	15.74	14.76	13.28	11.59	10.05	9.06	8.87	9.56
	1.10	1.11	1.11	1.13	1.14	1.16	1.17	1.17	1.17	1.16	1.14	1.13	1.12	1.11	1.11	1.11	1.11	1.11	1.10	1.09	1.08	1.08	1.07	1.08
	.82	.78	.74	.71	.70	.71	.74	.78	.82	.85	.86	.86	.84	.81	.78	.76	.76	.76	.78	.81	.84	.86	.86	.85
45-55S 10	16.67	17.35	17.88	18.21	18.35	18.30	18.11	17.85	17.55	17.25	16.98	16.74	16.50	16.24	15.94	15.57	15.17	14.78	14.47	14.31	14.39	14.71	15.25	15.94
	1.16	1.17	1.18	1.19	1.21	1.22	1.23	1.23	1.23	1.23	1.23	1.21	1.20	1.18	1.16	1.15	1.14	1.13	1.13	1.13	1.13	1.13	1.14	1.16
	.77	.76	.76	.76	.76	.77	.78	.78	.78	.78	.77	.76	.75	.74	.74	.74	.75	.76	.77	.78	.79	.79	.79	.78
55-65S 10	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

MONTH	00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23
55-65N 09	17.96	18.13	17.98	17.58	17.05	16.54	16.15	15.96	15.95	16.06	16.19	16.23	16.09	15.76	15.28	14.75	14.30	14.04	14.07	14.41	15.04	15.86	16.71	17.45
	1.19	1.20	1.20	1.20	1.20	1.20	1.20	1.20	1.20	1.19	1.19	1.19	1.18	1.17	1.16	1.15	1.14	1.14	1.14	1.14	1.15	1.16	1.17	1.18
	.77	.76	.76	.77	.78	.79	.80	.80	.80	.80	.81	.80	.80	.80	.81	.82	.82	.82	.82	.82	.81	.80	.79	.78
45-55N 09	16.41	16.63	17.11	17.54	17.60	17.25	17.18	17.21	17.69	18.32	18.23	18.43	17.29	16.90	16.37	15.97	14.37	14.29	15.44	15.49	15.71	16.04	16.42	16.78
	1.16	1.16	1.19	1.19	1.21	1.21	1.21	1.18	1.17	1.18	1.17	1.18	1.19	1.18	1.19	1.19	1.16	1.16	1.16	1.15	1.15	1.15	1.15	1.16
	.76	.75	.76	.76	.76	.77	.77	.75	.74	.73	.72	.72	.75	.76	.78	.80	.81	.81	.79	.79	.78	.77	.76	.76
35-45N 09	13.34	13.42	13.50	13.56	13.61	13.64	13.65	13.61	13.53	13.39	13.20	12.96	12.70	12.47	12.29	12.20	12.19	12.27	12.43	12.61	12.79	12.96	13.11	13.24
	1.14	1.14	1.14	1.14	1.14	1.14	1.14	1.14	1.14	1.14	1.14	1.14	1.13	1.13	1.13	1.12	1.12	1.12	1.13	1.13	1.13	1.13	1.13	1.14
	.83	.84	.84	.83	.83	.82	.82	.81	.82	.82	.82	.84	.84	.85	.85	.86	.85	.85	.84	.84	.84	.83	.83	.84
25-35N																								
15-25N 09	23.86	23.44	22.67	21.60	20.29	18.82	17.30	15.83	14.51	13.44	12.68	12.28	12.27	12.65	13.41	14.51	15.88	17.42	19.00	20.51	21.83	22.87	23.57	23.91
	1.36	1.35	1.33	1.31	1.29	1.26	1.23	1.20	1.17	1.15	1.13	1.12	1.11	1.12	1.13	1.16	1.19	1.22	1.26	1.30	1.33	1.35	1.36	1.37
	.78	.78	.79	.79	.80	.80	.81	.82	.83	.84	.85	.86	.85	.85	.84	.83	.81	.80	.79	.78	.78	.77	.77	.78
5-15N																								
5N-5S 03	14.69	15.55	16.25	16.62	16.51	15.88	14.76	13.29	11.69	10.21	9.06	8.39	8.22	8.51	9.10	9.83	10.54	11.14	11.58	11.91	12.22	12.60	13.13	13.84
	1.21	1.21	1.21	1.20	1.19	1.17	1.15	1.13	1.11	1.10	1.09	1.10	1.11	1.13	1.15	1.17	1.18	1.19	1.19	1.19	1.19	1.20	1.20	1.20
	.84	.82	.80	.79	.78	.78	.79	.81	.83	.85	.88	.90	.91	.91	.92	.91	.91	.90	.90	.89	.89	.88	.87	.86
5-15S 03	19.83	22.04	23.71	24.57	24.46	23.38	21.48	19.07	16.47	14.02	11.98	10.50	9.58	9.14	9.05	9.14	9.34	9.61	10.02	10.68	11.70	13.19	15.13	17.42
	1.23	1.27	1.31	1.33	1.34	1.33	1.30	1.26	1.22	1.18	1.14	1.11	1.10	1.09	1.09	1.10	1.10	1.10	1.10	1.10	1.11	1.13	1.16	1.19
	.73	.71	.70	.70	.71	.73	.76	.79	.82	.84	.87	.88	.89	.90	.89	.89	.88	.87	.86	.84	.82	.79	.77	.75
15-25S 03	17.26	17.23	17.38	17.57	17.65	17.47	16.97	16.14	15.10	14.04	13.13	12.56	12.42	12.75	13.48	14.50	15.64	16.73	17.59	18.12	18.30	18.16	17.84	17.49
	1.18	1.18	1.20	1.21	1.23	1.24	1.24	1.23	1.22	1.20	1.19	1.17	1.17	1.17	1.18	1.19	1.21	1.22	1.23	1.23	1.22	1.21	1.20	1.18
	.76	.76	.78	.79	.81	.83	.84	.85	.86	.86	.86	.85	.84	.83	.82	.82	.81	.80	.79	.78	.77	.76	.75	.75
25-35S 03	16.56	16.54	16.44	16.25	15.99	15.66	15.26	14.82	14.36	13.90	13.48	13.16	12.97	12.94	13.10	13.41	13.85	14.37	14.90	15.39	15.81	16.14	16.37	16.51
	1.21	1.21	1.21	1.20	1.20	1.19	1.18	1.17	1.15	1.14	1.12	1.11	1.10	1.10	1.10	1.11	1.13	1.15	1.17	1.18	1.19	1.20	1.21	1.21
	.80	.80	.80	.80	.80	.80	.81	.81	.82	.82	.82	.82	.82	.82	.81	.81	.80	.80	.80	.80	.80	.80	.80	.80
35-45S 03	12.62	12.90	13.41	14.06	14.76	15.40	15.84	16.03	15.93	15.58	15.08	14.52	14.03	13.67	13.48	13.43	13.48	13.52	13.51	13.40	13.19	12.92	12.69	12.56
	1.17	1.17	1.17	1.17	1.18	1.18	1.18	1.18	1.18	1.17	1.16	1.15	1.15	1.15	1.15	1.15	1.15	1.16	1.16	1.17	1.17	1.17	1.17	1.17
	.87	.86	.85	.83	.81	.80	.78	.77	.77	.78	.79	.80	.81	.82	.83	.83	.82	.82	.83	.83	.84	.85	.86	.87
45-55S 03	16.65	17.03	17.42	17.81	18.15	18.46	18.74	18.99	19.25	19.47	19.64	19.71	19.66	19.45	19.10	18.62	18.06	17.48	16.94	16.51	16.22	16.09	16.14	16.34
	1.20	1.21	1.20	1.21	1.21	1.21	1.21	1.21	1.21	1.21	1.21	1.21	1.21	1.21	1.21	1.21	1.21	1.21	1.20	1.20	1.20	1.20	1.20	1.20
	.79	.78	.76	.76	.75	.74	.73	.72	.71	.70	.70	.69	.69	.69	.70	.71	.73	.75	.76	.78	.79	.80	.80	.79
55-65S 03	22.84	23.73	23.93	23.46	22.45	21.15	19.86	18.84	18.23	18.06	18.22	18.52	18.75	18.72	18.38	17.75	16.99	16.33	15.99	16.15	16.90	18.16	19.77	21.43
	1.27	1.28	1.29	1.28	1.27	1.25	1.24	1.23	1.22	1.22	1.22	1.23	1.23	1.23	1.22	1.21	1.20	1.20	1.19	1.20	1.20	1.22	1.24	1.26
	.70	.69	.69	.69	.71	.73	.74	.76	.76	.76	.75	.74	.74	.74	.74	.75	.77	.79	.80	.80	.79	.77	.75	.72

MONTH	00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23
55-65N 10	24.36	23.35	22.60	22.29	22.48	23.13	24.06	25.03	25.80	26.19	26.09	25.57	24.79	23.99	23.39	23.19	23.45	24.11	24.98	25.83	26.40	26.54	26.18	25.39
	1.27	1.26	1.26	1.26	1.28	1.30	1.32	1.34	1.34	1.34	1.33	1.31	1.28	1.27	1.25	1.25	1.25	1.26	1.28	1.30	1.30	1.30	1.30	1.28
	.65	.67	.68	.69	.70	.70	.69	.68	.67	.66	.66	.65	.66	.66	.67	.67	.67	.66	.65	.63	.62	.62	.62	.64
45-55N 10	21.65	22.01	22.43	22.87	23.28	23.57	23.66	23.48	23.02	22.29	21.37	20.38	19.44	18.69	18.20	18.03	18.17	18.55	19.07	19.65	20.19	20.64	21.01	21.33
	1.25	1.25	1.25	1.26	1.27	1.28	1.28	1.28	1.27	1.25	1.22	1.20	1.18	1.17	1.17	1.18	1.20	1.22	1.24	1.26	1.27	1.27	1.27	1.26
	.70	.69	.68	.68	.68	.68	.68	.68	.69	.68	.69	.69	.70	.71	.73	.75	.76	.77	.77	.77	.76	.75	.73	.71
35-45N 10	12.92	15.14	13.85	15.53	15.59	16.74	16.59	16.17	13.67	15.82	14.17	12.75	11.68	11.62	11.50	11.82	11.07	15.70	15.83	15.22	16.94	16.74	16.90	14.07
	1.16	1.19	1.18	1.19	1.17	1.19	1.19	1.12	1.15	1.13	1.13	1.11	1.10	1.11	1.08	1.08	1.08	1.12	1.13	1.15	1.17	1.19	1.21	1.17
	.83	.77	.82	.77	.81	.77	.77	.82	.85	.78	.84	.85	.88	.89	.86	.83	.84	.78	.76	.78	.77	.75	.75	.78

25-35N

15-25N 10	31.85	33.88	35.37	35.98	35.47	33.74	30.93	27.37	23.50	19.84	16.82	14.72	13.66	13.57	14.26	15.50	17.02	18.65	20.29	21.92	23.61	25.42	27.43	29.61
	1.50	1.52	1.53	1.54	1.52	1.49	1.43	1.37	1.30	1.23	1.16	1.12	1.09	1.08	1.09	1.11	1.15	1.20	1.25	1.30	1.35	1.39	1.43	1.47
	.73	.73	.72	.73	.73	.75	.78	.80	.83	.86	.87	.88	.87	.85	.83	.81	.79	.77	.76	.75	.75	.75	.74	.74

5-15N

5N-5S 04	18.85	20.96	22.46	23.02	22.48	20.95	18.72	16.23	13.94	12.23	11.25	11.00	11.26	11.75	12.18	12.37	12.25	11.91	11.57	11.46	11.82	12.80	14.41	16.52
	1.24	1.26	1.27	1.27	1.26	1.24	1.21	1.18	1.16	1.14	1.13	1.14	1.15	1.16	1.17	1.18	1.18	1.17	1.17	1.17	1.17	1.18	1.19	1.22
	.81	.79	.77	.76	.76	.77	.79	.81	.83	.85	.86	.87	.87	.86	.86	.86	.86	.86	.87	.87	.87	.86	.85	.83
5-15S 04	21.37	23.81	25.52	26.22	25.78	24.22	21.77	18.77	15.65	12.78	10.46	8.83	7.90	7.52	7.51	7.71	8.01	8.41	9.01	9.96	11.38	13.34	15.80	18.57
	1.25	1.29	1.32	1.34	1.35	1.33	1.30	1.26	1.21	1.17	1.13	1.11	1.09	1.08	1.08	1.08	1.08	1.07	1.08	1.08	1.10	1.12	1.16	1.20
	.73	.71	.70	.70	.71	.73	.76	.79	.82	.85	.87	.89	.90	.90	.91	.91	.91	.90	.89	.87	.85	.82	.79	.76
15-25S 04	24.07	24.76	25.13	25.03	24.36	23.11	21.38	19.38	17.38	15.68	14.50	13.96	14.04	14.63	15.55	16.60	17.62	18.55	19.35	20.08	20.80	21.55	22.37	23.23
	1.38	1.39	1.40	1.39	1.38	1.36	1.32	1.29	1.25	1.22	1.20	1.19	1.19	1.20	1.21	1.23	1.25	1.26	1.28	1.29	1.31	1.32	1.34	1.36
	.77	.76	.75	.75	.76	.77	.79	.81	.83	.84	.85	.85	.84	.83	.82	.81	.80	.80	.80	.80	.80	.79	.79	.78
25-35S 04	19.93	19.87	19.33	18.38	17.12	15.67	14.14	12.63	11.22	9.97	8.93	8.15	7.66	7.49	7.68	8.24	9.19	10.49	12.06	13.80	15.57	17.20	18.55	19.49
	1.29	1.28	1.26	1.24	1.21	1.19	1.17	1.15	1.14	1.13	1.12	1.11	1.10	1.09	1.08	1.09	1.10	1.12	1.15	1.18	1.22	1.25	1.27	1.29
	.80	.80	.80	.81	.82	.83	.84	.86	.87	.88	.89	.90	.90	.90	.90	.89	.88	.87	.85	.84	.83	.82	.81	.80
35-45S 04	14.99	15.03	15.05	15.06	15.02	14.91	14.69	14.31	13.80	13.18	12.52	11.89	11.39	11.07	11.00	11.17	11.58	12.14	12.80	13.44	14.02	14.45	14.75	14.91
	1.21	1.21	1.20	1.19	1.18	1.18	1.17	1.17	1.16	1.16	1.15	1.15	1.14	1.14	1.13	1.14	1.15	1.16	1.17	1.18	1.20	1.21	1.21	1.21
	.85	.84	.84	.83	.83	.82	.83	.83	.84	.85	.86	.87	.88	.88	.88	.88	.87	.86	.85	.85	.85	.84	.85	.85
45-55S 04	17.09	17.35	17.60	17.78	17.85	17.76	17.47	17.00	16.35	15.60	14.83	14.13	13.57	13.22	13.11	13.23	13.55	14.02	14.57	15.14	15.66	16.11	16.49	16.80
	1.22	1.22	1.22	1.23	1.23	1.23	1.22	1.21	1.19	1.17	1.15	1.13	1.12	1.12	1.12	1.13	1.15	1.16	1.17	1.19	1.20	1.21	1.21	1.21
	.79	.79	.78	.77	.77	.77	.77	.77	.77	.77	.77	.78	.79	.79	.80	.82	.82	.82	.82	.82	.81	.80	.80	.79
55-65S 04	22.72	23.72	24.33	24.48	24.16	23.47	22.56	21.60	20.75	20.09	19.65	19.37	19.16	18.91	18.56	18.12	17.66	17.30	17.18	17.38	17.97	18.92	20.13	21.45
	1.29	1.31	1.32	1.33	1.32	1.31	1.29	1.26	1.24	1.21	1.19	1.18	1.17	1.16	1.16	1.16	1.17	1.17	1.18	1.19	1.21	1.22	1.25	1.27
	.75	.74	.73	.73	.73	.73	.73	.73	.72	.71	.70	.68	.67	.67	.68	.69	.71	.73	.75	.76	.77	.77	.76	.76

\*\*\*\*\* ACTIVE MAGNETIC - HIGH SOLAR \*\*\*\*\*

MONTH	00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23
55-65N 03	18.17	18.47	18.64	18.74	18.86	19.05	19.30	19.54	19.67	19.59	19.20	18.48	17.49	16.34	15.20	14.25	13.63	13.43	13.67	14.27	15.11	16.04	16.92	17.65
	1.22	1.23	1.23	1.24	1.24	1.25	1.24	1.24	1.23	1.22	1.19	1.17	1.15	1.13	1.11	1.11	1.11	1.11	1.13	1.14	1.16	1.18	1.20	1.22
	.76	.76	.75	.76	.75	.75	.74	.73	.73	.71	.71	.71	.72	.73	.75	.76	.78	.79	.80	.80	.79	.79	.78	.77
45-55N 03	12.60	13.08	13.67	14.34	15.07	15.78	16.39	16.81	16.98	16.85	16.44	15.78	14.97	14.08	13.24	12.52	11.98	11.62	11.45	11.43	11.52	11.69	11.92	12.22
	1.14	1.15	1.16	1.16	1.16	1.17	1.16	1.15	1.14	1.13	1.11	1.10	1.09	1.08	1.07	1.07	1.07	1.07	1.08	1.09	1.10	1.11	1.12	1.13
	.83	.82	.82	.81	.79	.77	.75	.74	.73	.72	.72	.72	.74	.75	.76	.78	.79	.80	.81	.81	.81	.82	.82	.82
35-45N 03	11.40	11.67	11.80	11.79	11.63	11.34	10.90	10.31	9.58	8.74	7.86	7.01	6.28	5.75	5.47	5.47	5.76	6.30	7.03	7.88	8.77	9.62	10.36	10.96
	1.15	1.15	1.16	1.16	1.16	1.15	1.13	1.12	1.10	1.08	1.06	1.06	1.05	1.04	1.04	1.05	1.05	1.06	1.07	1.08	1.09	1.11	1.12	1.13
	.86	.86	.85	.86	.86	.86	.87	.87	.88	.90	.91	.92	.93	.95	.95	.95	.95	.94	.92	.91	.89	.88	.87	.86
25-35N																								
15-25N 03	19.07	20.69	21.67	21.83	21.11	19.55	17.33	14.71	12.01	9.52	7.47	5.98	5.09	4.73	4.79	5.18	5.82	6.67	7.76	9.11	10.76	12.69	14.83	17.02
	1.28	1.30	1.31	1.31	1.30	1.28	1.25	1.21	1.17	1.13	1.10	1.08	1.06	1.06	1.06	1.07	1.09	1.11	1.13	1.15	1.18	1.20	1.23	1.26
	.81	.79	.78	.77	.78	.79	.81	.84	.87	.89	.91	.93	.94	.94	.94	.93	.93	.92	.91	.90	.89	.87	.85	.83
5-15N																								
5N-5S 09	14.15	15.36	16.28	16.71	16.50	15.62	14.20	12.45	10.66	9.12	8.03	7.48	7.42	7.73	8.22	8.73	9.16	9.46	9.69	9.93	10.31	10.91	11.79	12.90
	1.21	1.24	1.25	1.26	1.26	1.25	1.22	1.19	1.16	1.14	1.12	1.10	1.10	1.11	1.12	1.13	1.13	1.14	1.14	1.14	1.15	1.16	1.17	1.19
	.85	.84	.83	.83	.83	.84	.85	.86	.88	.90	.91	.91	.91	.91	.91	.90	.90	.90	.90	.89	.89	.89	.88	.87
5-15S 09	0.00	0.00	26.20	34.30	32.60	41.60	49.20	22.40	18.80	15.80	14.10	7.10	6.20	11.20	7.60	8.70	8.00	6.70	7.20	4.60	5.50	0.00	0.00	0.00
	0.00	0.00	1.44	1.49	1.46	1.65	1.82	1.40	1.10	1.11	1.09	1.09	1.09	1.06	1.11	1.08	1.06	1.05	1.05	1.04	1.05	0.00	0.00	0.00
	0.00	0.00	.71	.73	.67	.61	.75	.84	.75	.89	.87	.95	.95	.90	.93	.93	.92	.92	.88	.94	.92	0.00	0.00	0.00
15-25S 09	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
25-35S 09	16.53	17.53	18.42	19.01	19.08	18.50	17.26	15.48	13.37	11.26	9.43	8.14	7.53	7.60	8.24	9.25	10.40	11.51	12.44	13.17	13.74	14.26	14.86	15.61
	1.21	1.23	1.25	1.26	1.26	1.25	1.22	1.19	1.15	1.12	1.09	1.07	1.07	1.07	1.08	1.09	1.10	1.11	1.12	1.13	1.13	1.15	1.16	1.18
	.82	.82	.82	.82	.82	.83	.83	.84	.85	.87	.88	.89	.90	.91	.91	.90	.89	.88	.86	.85	.84	.83	.82	.82
35-45S 09	12.69	13.45	14.28	15.08	15.69	16.01	15.99	15.64	15.02	14.26	13.49	12.82	12.33	12.05	11.94	11.93	11.97	11.97	11.91	11.79	11.68	11.65	11.77	12.11
	1.15	1.16	1.16	1.16	1.16	1.15	1.14	1.13	1.12	1.11	1.10	1.10	1.10	1.10	1.10	1.11	1.12	1.13	1.13	1.13	1.14	1.14	1.15	1.15
	.85	.83	.83	.81	.80	.79	.79	.80	.80	.82	.83	.84	.85	.85	.85	.85	.86	.85	.86	.86	.86	.86	.86	.86
45-55S 09	18.97	19.28	19.82	19.44	19.98	20.15	19.66	18.78	19.84	19.95	18.94	17.87	17.38	16.47	16.27	15.23	15.75	14.72	15.53	13.44	13.83	15.68	18.13	17.06
	1.13	1.11	1.15	1.16	1.18	1.18	1.17	1.16	1.19	1.12	1.12	1.12	1.09	1.10	1.10	1.10	1.08	1.13	1.11	1.11	1.12	1.13	1.12	1.17
	.70	.66	.71	.76	.71	.73	.72	.72	.68	.63	.65	.70	.72	.74	.71	.77	.73	.79	.73	.81	.81	.74	.77	.75
55-65S 09	23.35	23.84	24.30	24.66	24.88	24.91	24.71	24.28	23.64	22.86	22.03	21.24	20.58	20.14	19.93	19.94	20.14	20.45	20.83	21.22	21.61	22.01	22.42	22.87
	1.20	1.22	1.25	1.27	1.28	1.29	1.28	1.27	1.24	1.21	1.18	1.16	1.14	1.13	1.13	1.13	1.14	1.14	1.15	1.15	1.16	1.16	1.17	1.18
	.67	.67	.67	.68	.68	.68	.67	.67	.66	.65	.64	.64	.63	.63	.63	.64	.64	.65	.65	.66	.66	.66	.67	.67



MONTH	00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23
55-65N 04	18.15	18.42	18.82	19.41	20.23	21.20	22.21	23.10	23.69	23.85	23.52	22.73	21.57	20.25	18.94	17.83	17.04	16.62	16.53	16.70	17.01	17.36	17.67	17.93
	1.19	1.21	1.22	1.24	1.26	1.28	1.31	1.32	1.33	1.32	1.30	1.27	1.24	1.21	1.18	1.16	1.15	1.14	1.15	1.15	1.16	1.17	1.18	1.18
	.73	.74	.74	.74	.74	.74	.74	.73	.72	.71	.70	.69	.69	.70	.71	.72	.73	.74	.75	.75	.75	.74	.74	.74
45-55N 04	15.09	15.59	16.26	17.12	18.16	19.31	20.48	21.53	22.31	22.72	22.67	22.17	21.27	20.11	18.83	17.58	16.48	15.60	14.98	14.60	14.42	14.40	14.51	14.74
	1.14	1.15	1.16	1.18	1.20	1.22	1.24	1.25	1.25	1.25	1.23	1.21	1.19	1.16	1.15	1.14	1.13	1.13	1.13	1.12	1.13	1.13	1.13	1.13
	.77	.77	.76	.75	.75	.74	.73	.72	.70	.70	.69	.69	.69	.70	.71	.72	.73	.75	.76	.78	.78	.78	.78	.78
35-45N 04	10.31	10.61	10.98	11.41	11.88	12.33	12.68	12.88	12.86	12.61	12.14	11.52	10.83	10.16	9.61	9.21	9.01	8.97	9.06	9.23	9.43	9.64	9.85	10.06
	1.11	1.12	1.12	1.13	1.13	1.12	1.12	1.11	1.10	1.09	1.08	1.07	1.06	1.06	1.06	1.06	1.07	1.07	1.07	1.08	1.09	1.09	1.10	1.10
	.86	.86	.85	.84	.83	.82	.81	.80	.80	.80	.81	.82	.83	.85	.85	.86	.87	.87	.86	.86	.86	.86	.86	.86
25-35N																								
15-25N 04	18.63	18.98	18.89	18.34	17.38	16.09	14.64	13.17	11.84	10.77	10.01	9.58	9.45	9.56	9.85	10.29	10.87	11.58	12.45	13.45	14.57	15.75	16.89	17.89
	1.26	1.27	1.27	1.26	1.25	1.22	1.19	1.17	1.14	1.12	1.10	1.09	1.09	1.09	1.10	1.11	1.12	1.14	1.15	1.17	1.19	1.21	1.23	1.25
	.79	.79	.80	.81	.82	.84	.85	.86	.87	.88	.89	.89	.89	.89	.89	.89	.88	.88	.86	.85	.83	.82	.81	.79
5-15N																								
5N-5S 10	14.62	15.37	15.98	16.31	16.21	15.61	14.56	13.18	11.70	10.32	9.25	8.61	8.41	8.60	9.08	9.70	10.35	10.96	11.48	11.92	12.32	12.75	13.26	13.89
	1.19	1.21	1.22	1.23	1.24	1.23	1.22	1.20	1.17	1.15	1.13	1.11	1.10	1.11	1.11	1.13	1.14	1.15	1.16	1.17	1.17	1.18	1.18	1.18
	.84	.83	.82	.82	.82	.84	.85	.87	.88	.90	.90	.90	.90	.90	.89	.88	.88	.88	.88	.88	.87	.87	.86	.85
5-15S 10	0.00	0.00	0.00	0.00	0.00	0.00	0.00	13.00	9.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.26	1.14	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	0.00	0.00	0.00	0.00	0.00	0.00	0.00	.88	.91	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
15-25S 10	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
25-35S 10	8.10	6.90	8.40	8.80	7.30	9.80	9.80	0.00	15.00	11.50	10.05	6.60	9.20	10.50	8.15	8.80	4.90	6.00	5.10	4.60	0.00	5.10	0.00	0.00
	1.11	1.08	1.12	1.15	1.07	1.13	1.13	0.00	1.05	1.09	1.07	1.09	1.02	1.04	1.06	1.09	1.07	1.11	1.07	1.05	0.00	1.07	0.00	0.00
	.90	.93	.89	.92	.89	.87	.90	0.00	.70	.80	.83	.92	.92	.95	.92	.92	.93	.95	.95	.95	0.00	.94	0.00	0.00
35-45S 10	7.05	8.13	7.59	8.59	9.33	9.74	10.13	13.86	13.86	13.54	12.83	11.88	10.86	9.94	9.26	8.88	8.76	8.82	8.96	9.07	9.08	8.99	8.83	8.70
	1.10	1.08	1.10	1.11	1.12	1.12	1.08	1.14	1.10	1.10	1.09	1.08	1.08	1.07	1.07	1.07	1.07	1.08	1.08	1.08	1.09	1.09	1.09	1.10
	.90	.92	.89	.90	.88	.86	.85	.81	.77	.78	.79	.80	.82	.84	.86	.87	.88	.88	.89	.89	.89	.90	.90	.90
45-55S 10	10.32	11.67	11.35	11.26	12.95	13.55	13.74	17.62	19.37	20.28	21.76	20.43	20.58	22.69	19.80	16.92	15.38	13.89	11.81	11.62	10.99	10.35	9.40	9.63
	1.09	1.12	1.11	1.11	1.10	1.12	1.14	1.23	1.21	1.25	1.29	1.25	1.25	1.33	1.26	1.12	1.13	1.13	1.11	1.08	1.08	1.08	1.10	1.10
	.84	.82	.81	.84	.80	.82	.84	.81	.73	.75	.75	.75	.76	.80	.79	.74	.77	.82	.84	.84	.85	.86	.89	.86
55-65S 10	16.46	16.69	16.88	17.12	17.52	18.12	18.92	19.84	20.74	21.44	21.80	21.71	21.16	20.21	19.03	17.77	16.62	15.73	15.17	14.95	15.05	15.35	15.76	16.15
	1.11	1.11	1.12	1.14	1.17	1.21	1.24	1.27	1.30	1.32	1.32	1.31	1.29	1.26	1.23	1.20	1.18	1.16	1.14	1.13	1.12	1.12	1.11	1.11
	.70	.69	.69	.70	.71	.73	.74	.74	.75	.75	.75	.75	.75	.76	.77	.77	.78	.79	.79	.78	.76	.74	.72	.71

MONTH	00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23
55-65N 09	19.31	19.17	18.95	18.74	18.65	18.77	19.11	19.61	20.17	20.65	20.92	20.88	20.53	19.90	19.14	18.38	17.77	17.43	17.41	17.65	18.09	18.58	19.00	19.26
	1.18	1.18	1.18	1.18	1.19	1.19	1.19	1.20	1.20	1.21	1.21	1.21	1.21	1.20	1.20	1.19	1.18	1.17	1.17	1.17	1.16	1.17	1.17	1.18
	.71	.71	.71	.72	.72	.71	.71	.70	.70	.69	.69	.69	.70	.72	.73	.75	.76	.76	.76	.75	.74	.72	.71	.71
45-55N 09	16.76	16.85	17.04	17.35	17.82	18.42	19.11	19.83	20.47	20.93	21.15	21.10	20.78	20.24	19.57	18.87	18.22	17.67	17.26	16.99	16.83	16.75	16.72	16.73
	1.16	1.16	1.16	1.17	1.18	1.19	1.19	1.20	1.20	1.21	1.20	1.20	1.19	1.18	1.17	1.16	1.16	1.16	1.16	1.15	1.15	1.15	1.15	1.15
	.75	.75	.75	.74	.74	.72	.71	.70	.69	.68	.67	.66	.67	.68	.68	.70	.71	.72	.73	.74	.74	.75	.75	.75
35-45N 09	9.98	10.16	10.66	11.48	12.51	13.57	14.46	15.00	15.05	14.61	13.75	12.64	11.50	10.53	9.87	9.58	9.64	9.90	10.24	10.51	10.61	10.52	10.30	10.08
	1.10	1.10	1.10	1.11	1.13	1.14	1.15	1.16	1.16	1.16	1.16	1.15	1.15	1.14	1.14	1.13	1.13	1.14	1.13	1.13	1.12	1.12	1.11	1.11
	.87	.86	.85	.84	.83	.81	.80	.79	.80	.81	.82	.84	.86	.87	.88	.89	.89	.88	.87	.87	.87	.87	.87	.87
25-35N																								
15-25N 09	27.28	27.22	26.69	25.76	24.55	23.20	21.88	20.72	19.83	19.23	18.91	18.80	18.82	18.90	19.02	19.22	19.57	20.15	21.01	22.14	23.44	24.77	25.96	26.83
	1.39	1.39	1.38	1.36	1.33	1.31	1.27	1.24	1.21	1.18	1.15	1.13	1.11	1.10	1.11	1.12	1.14	1.17	1.20	1.25	1.29	1.33	1.36	1.38
	.70	.71	.72	.73	.73	.74	.74	.75	.75	.75	.75	.74	.73	.72	.71	.70	.69	.69	.68	.68	.68	.69	.69	.70
5-15N																								
5N-5S 03	16.72	17.98	18.90	19.24	18.89	17.84	16.26	14.38	12.53	10.97	9.92	9.42	9.43	9.80	10.32	10.84	11.26	11.54	11.75	12.01	12.43	13.12	14.11	15.35
	1.25	1.26	1.27	1.27	1.26	1.25	1.22	1.19	1.17	1.15	1.14	1.13	1.14	1.15	1.16	1.16	1.17	1.17	1.17	1.17	1.18	1.19	1.21	1.23
	.81	.80	.80	.80	.81	.82	.84	.86	.87	.89	.90	.90	.90	.90	.90	.90	.90	.90	.90	.89	.88	.86	.85	.83
5-15S 03	6.30	7.00	9.40	10.50	16.80	17.70	28.90	15.90	5.90	3.30	2.10	0.00	4.30	4.60	0.00	2.90	3.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	1.02	1.09	1.12	1.10	1.18	1.19	1.54	1.27	1.07	1.03	1.03	0.00	1.07	1.08	0.00	1.00	1.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	.92	.92	.84	.88	.71	.72	.79	.88	.92	.96	.98	0.00	.95	.98	0.00	.94	.94	0.00	0.00	0.00	0.00	0.00	0.00	0.00
15-25S 03	12.58	13.02	13.18	13.01	12.54	11.82	10.93	9.99	9.11	8.37	7.83	7.49	7.32	7.29	7.35	7.48	7.67	7.95	8.35	8.88	9.55	10.32	11.14	11.92
	1.16	1.17	1.18	1.17	1.16	1.14	1.13	1.11	1.11	1.10	1.11	1.11	1.12	1.12	1.12	1.12	1.11	1.11	1.10	1.10	1.11	1.12	1.13	1.15
	.85	.85	.85	.85	.86	.86	.87	.88	.90	.91	.92	.93	.93	.93	.93	.92	.91	.90	.89	.88	.87	.87	.86	.86
25-35S 03	10.44	10.89	11.22	11.40	11.42	11.28	11.01	10.63	10.19	9.72	9.24	8.78	8.37	8.01	7.73	7.55	7.48	7.52	7.68	7.96	8.35	8.83	9.36	9.91
	1.12	1.14	1.15	1.16	1.16	1.15	1.14	1.12	1.10	1.08	1.07	1.06	1.05	1.05	1.05	1.06	1.06	1.06	1.06	1.07	1.07	1.08	1.09	1.10
	.85	.85	.85	.85	.85	.85	.85	.85	.86	.86	.86	.87	.87	.87	.88	.88	.88	.88	.88	.88	.88	.87	.87	.86
35-45S 03	8.66	8.86	9.34	10.03	10.90	11.81	12.60	13.15	13.33	13.14	12.61	11.85	11.03	10.28	9.70	9.33	9.17	9.14	9.17	9.17	9.11	8.97	8.80	8.67
	1.09	1.09	1.09	1.10	1.11	1.11	1.12	1.12	1.12	1.11	1.10	1.10	1.09	1.08	1.07	1.07	1.08	1.07	1.08	1.08	1.08	1.08	1.09	1.09
	.87	.87	.86	.85	.84	.82	.80	.80	.79	.80	.81	.83	.84	.86	.87	.87	.87	.87	.87	.87	.86	.86	.87	.87
45-55S 03	10.91	10.10	12.29	11.73	12.36	14.17	17.37	19.37	18.63	19.71	19.66	18.70	18.50	16.67	16.43	16.15	15.49	15.32	14.78	15.35	14.43	13.46	12.52	9.83
	1.14	1.12	1.16	1.14	1.13	1.18	1.20	1.25	1.13	1.18	1.15	1.12	1.14	1.13	1.12	1.12	1.12	1.16	1.13	1.14	1.14	1.12	1.11	1.10
	.87	.87	.84	.85	.83	.83	.76	.74	.68	.66	.64	.67	.68	.73	.74	.75	.77	.79	.79	.77	.78	.80	.81	.86
55-65S 03	16.52	17.81	19.21	20.56	21.71	22.58	23.14	23.42	23.47	23.33	23.07	22.70	22.22	21.61	20.86	19.96	18.93	17.83	16.73	15.78	15.08	14.76	14.90	15.50
	1.16	1.19	1.22	1.25	1.28	1.30	1.32	1.32	1.32	1.31	1.30	1.29	1.27	1.26	1.25	1.23	1.21	1.19	1.17	1.15	1.14	1.13	1.13	1.14
	.77	.76	.75	.74	.73	.73	.72	.72	.71	.71	.70	.70	.70	.70	.71	.72	.73	.75	.76	.77	.78	.78	.78	.77

MONTH	00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23
55-65N 10	15.18	14.91	14.73	14.72	14.94	15.37	15.94	16.52	17.00	17.25	17.20	16.85	16.26	15.56	14.89	14.40	14.16	14.19	14.44	14.81	15.19	15.44	15.52	15.42
	1.17	1.17	1.17	1.18	1.18	1.18	1.18	1.18	1.18	1.17	1.16	1.15	1.14	1.13	1.12	1.12	1.12	1.13	1.14	1.14	1.15	1.16	1.16	1.17
	.79	.80	.81	.81	.80	.80	.78	.76	.75	.73	.72	.72	.73	.74	.76	.77	.78	.79	.79	.79	.79	.78	.78	.78
45-55N 10	11.05	11.41	11.85	12.39	12.96	13.52	13.99	14.28	14.33	14.11	13.64	12.98	12.22	11.45	10.77	10.25	9.92	9.78	9.80	9.93	10.11	10.32	10.53	10.77
	1.13	1.13	1.15	1.15	1.15	1.15	1.15	1.14	1.13	1.12	1.11	1.10	1.10	1.09	1.09	1.09	1.09	1.09	1.09	1.10	1.10	1.11	1.11	1.12
	.88	.87	.86	.85	.84	.83	.82	.81	.80	.81	.81	.82	.83	.85	.86	.87	.87	.88	.88	.88	.88	.88	.88	.88
35-45N 10	12.40	12.46	12.33	12.05	11.66	11.21	10.67	10.05	9.34	8.54	7.67	6.81	6.03	5.42	5.09	5.09	5.47	6.18	7.18	8.33	9.52	10.60	11.47	12.08
	1.17	1.18	1.17	1.17	1.16	1.15	1.13	1.12	1.10	1.09	1.08	1.07	1.06	1.05	1.05	1.06	1.06	1.07	1.08	1.10	1.12	1.14	1.16	1.17
	.85	.86	.85	.85	.86	.86	.87	.87	.88	.89	.90	.91	.92	.93	.93	.93	.92	.91	.89	.88	.87	.86	.86	.85
25-35N																								
15-25N 10	19.77	21.93	23.70	24.70	24.64	23.40	21.07	17.95	14.46	11.12	8.33	6.41	5.44	5.37	5.99	7.04	8.26	9.47	10.58	11.62	12.72	14.01	15.62	17.58
	1.23	1.26	1.30	1.33	1.34	1.33	1.31	1.26	1.21	1.16	1.12	1.08	1.07	1.07	1.08	1.10	1.12	1.13	1.14	1.15	1.15	1.16	1.17	1.20
	.79	.77	.76	.75	.76	.77	.79	.82	.85	.88	.90	.92	.93	.93	.93	.92	.91	.90	.89	.87	.86	.84	.82	.80
5-15N																								
5N-5S 04	16.14	17.91	19.26	19.89	19.60	18.39	16.45	14.11	11.79	9.87	8.59	8.03	8.08	8.53	9.12	9.64	9.97	10.12	10.17	10.31	10.69	11.46	12.68	14.30
	1.22	1.25	1.27	1.29	1.28	1.27	1.24	1.20	1.16	1.12	1.09	1.08	1.08	1.09	1.11	1.13	1.14	1.15	1.16	1.16	1.16	1.17	1.18	1.20
	.82	.80	.79	.79	.80	.81	.83	.85	.87	.88	.88	.88	.88	.88	.88	.89	.89	.90	.90	.89	.88	.86	.84	.84
5-15S 04	0.00	11.20	16.40	23.90	21.65	23.85	27.97	17.97	8.30	4.50	7.80	7.70	7.80	7.90	0.00	4.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	0.00	1.04	1.21	1.30	1.35	1.37	1.26	1.29	1.05	1.07	1.12	1.13	1.12	1.10	0.00	1.08	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	0.00	.79	.80	.71	.77	.68	.66	.88	.88	.95	.91	.91	.95	.89	0.00	.97	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
15-25S 04	20.75	21.06	21.18	21.06	20.60	19.77	18.54	17.01	15.30	13.59	12.06	10.90	10.21	10.06	10.46	11.31	12.52	13.93	15.38	16.76	17.95	18.93	19.71	20.30
	1.25	1.26	1.27	1.27	1.26	1.25	1.23	1.20	1.17	1.15	1.13	1.12	1.11	1.12	1.13	1.14	1.16	1.17	1.19	1.20	1.21	1.22	1.23	1.24
	.79	.78	.77	.76	.76	.76	.77	.79	.80	.82	.84	.86	.87	.87	.87	.87	.87	.86	.85	.84	.83	.82	.81	.80
25-35S 04	12.40	13.29	13.80	13.84	13.38	12.47	11.21	9.75	8.29	6.96	5.90	5.13	4.67	4.46	4.43	4.56	4.81	5.21	5.78	6.55	7.53	8.69	9.96	11.24
	1.15	1.16	1.17	1.18	1.18	1.17	1.16	1.14	1.12	1.09	1.07	1.06	1.05	1.04	1.04	1.05	1.05	1.06	1.07	1.08	1.09	1.10	1.12	1.13
	.84	.83	.82	.83	.84	.85	.87	.89	.90	.92	.92	.93	.93	.93	.93	.93	.93	.93	.92	.91	.90	.88	.87	.85
35-45S 04	10.80	11.27	11.67	11.94	12.02	11.86	11.44	10.79	9.97	9.07	8.19	7.45	6.90	6.59	6.51	6.65	6.94	7.34	7.81	8.29	8.79	9.29	9.79	10.30
	1.13	1.14	1.15	1.15	1.15	1.15	1.14	1.13	1.12	1.11	1.09	1.08	1.08	1.07	1.07	1.07	1.08	1.08	1.09	1.09	1.10	1.11	1.12	1.12
	.85	.85	.84	.84	.84	.85	.85	.86	.88	.88	.89	.91	.91	.91	.91	.91	.91	.90	.89	.88	.88	.87	.87	.86
45-55S 04	13.95	13.33	13.84	14.25	13.35	14.13	15.98	14.93	14.98	13.31	11.84	11.27	8.07	7.26	5.99	8.29	8.33	8.71	10.29	10.80	11.23	10.87	13.51	13.86
	1.16	1.14	1.14	1.14	1.14	1.15	1.16	1.13	1.13	1.07	1.06	1.07	1.05	1.04	1.04	1.05	1.04	1.06	1.08	1.09	1.10	1.12	1.11	1.14
	.81	.81	.79	.79	.80	.82	.77	.78	.75	.78	.83	.81	.88	.91	.92	.88	.89	.88	.86	.85	.85	.87	.80	.82
55-65S 04	14.35	15.40	16.45	17.40	18.14	18.62	18.82	18.78	18.54	18.17	17.72	17.22	16.69	16.11	15.50	14.84	14.15	13.49	12.91	12.48	12.28	12.36	12.75	13.43
	1.14	1.15	1.16	1.17	1.19	1.20	1.21	1.21	1.21	1.20	1.18	1.16	1.14	1.12	1.11	1.10	1.09	1.10	1.10	1.11	1.12	1.12	1.13	1.13
	.79	.77	.75	.74	.73	.73	.73	.73	.74	.75	.75	.75	.75	.75	.75	.76	.77	.78	.79	.81	.82	.82	.82	.81

\*\*\*\*\* AP LESS THAN 20 -- SOLAR RANGE 0 - 40 \*\*\*\*\*

MONTH	00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23	
55-65N 03	17.29	17.07	16.71	16.29	15.87	15.45	14.98	14.42	13.72	12.87	11.89	10.87	9.92	9.18	8.80	8.88	9.46	10.50	11.87	13.39	14.83	16.02	16.84	17.25	
	1.22	1.21	1.21	1.20	1.20	1.19	1.19	1.18	1.17	1.16	1.15	1.13	1.12	1.11	1.11	1.11	1.12	1.13	1.15	1.16	1.19	1.20	1.21	1.22	
	.78	.79	.79	.80	.80	.81	.81	.82	.83	.84	.85	.87	.88	.89	.90	.90	.88	.87	.85	.83	.81	.80	.79	.79	
45-55N 03	15.20	14.96	14.64	14.28	13.93	13.57	13.21	12.83	12.40	11.93	11.44	10.96	10.55	10.28	10.22	10.43	10.91	11.63	12.49	13.39	14.20	14.81	15.18	15.30	
	1.19	1.18	1.17	1.17	1.17	1.16	1.16	1.16	1.15	1.15	1.14	1.14	1.13	1.13	1.13	1.14	1.14	1.15	1.17	1.18	1.19	1.19	1.20	1.19	
	.82	.81	.82	.82	.82	.82	.82	.83	.84	.85	.85	.86	.87	.88	.88	.88	.88	.88	.87	.86	.85	.84	.83	.82	.82
35-45N 03	13.16	12.78	12.43	12.17	11.99	11.86	11.75	11.58	11.35	11.03	10.65	10.25	9.91	9.71	9.72	9.99	10.51	11.22	12.02	12.77	13.33	13.65	13.69	13.50	
	1.18	1.18	1.18	1.17	1.17	1.16	1.16	1.16	1.16	1.15	1.15	1.15	1.14	1.14	1.14	1.14	1.15	1.16	1.17	1.17	1.18	1.19	1.19	1.19	
	.86	.87	.87	.87	.87	.87	.87	.87	.87	.88	.89	.89	.90	.90	.90	.89	.89	.88	.87	.86	.85	.85	.85	.86	
25-35N																									
15-25N 03	20.52	20.16	19.91	19.60	19.02	18.06	16.70	15.06	13.37	11.91	10.97	10.74	11.33	12.70	14.66	16.93	19.19	21.10	22.43	23.07	23.06	22.56	21.82	21.08	
	1.28	1.27	1.27	1.26	1.26	1.25	1.23	1.21	1.18	1.16	1.14	1.14	1.14	1.17	1.20	1.24	1.28	1.31	1.33	1.34	1.34	1.33	1.31	1.30	
	.80	.80	.80	.80	.81	.82	.83	.85	.86	.87	.87	.87	.86	.85	.83	.81	.80	.79	.78	.78	.78	.79	.79	.79	
5-15N																									
5N-5S 09	17.50	20.92	23.78	25.50	25.70	24.36	21.78	18.51	15.21	12.49	10.72	10.00	10.15	10.81	11.54	11.96	11.88	11.29	10.41	9.62	9.33	9.91	11.54	14.17	
	1.23	1.29	1.34	1.37	1.38	1.36	1.33	1.28	1.23	1.19	1.16	1.15	1.15	1.16	1.17	1.17	1.16	1.15	1.13	1.12	1.11	1.12	1.14	1.18	
	.79	.76	.74	.73	.74	.76	.80	.83	.87	.89	.90	.91	.90	.89	.88	.87	.87	.87	.87	.88	.88	.87	.85	.82	
5-15S 09	34.39	35.72	35.61	33.90	30.74	26.52	21.83	17.32	13.56	10.96	9.67	9.60	10.46	11.88	13.50	15.06	16.46	17.79	19.21	20.97	23.21	25.95	28.99	31.96	
	1.53	1.55	1.55	1.53	1.48	1.41	1.33	1.26	1.19	1.14	1.11	1.10	1.11	1.13	1.15	1.17	1.20	1.23	1.26	1.29	1.34	1.38	1.44	1.49	
	.67	.67	.69	.71	.75	.78	.82	.85	.87	.88	.87	.86	.85	.83	.81	.80	.79	.78	.77	.76	.74	.72	.70	.68	
15-25S 09	17.37	17.98	18.34	18.28	17.75	16.87	15.89	15.10	14.79	15.10	16.04	17.43	18.99	20.39	21.34	21.68	21.36	20.51	19.34	18.12	17.12	16.53	16.43	16.76	
	1.26	1.26	1.26	1.26	1.25	1.24	1.23	1.23	1.24	1.25	1.27	1.29	1.31	1.33	1.34	1.34	1.33	1.32	1.31	1.29	1.27	1.26	1.26	1.25	
	.85	.84	.83	.83	.83	.83	.84	.85	.86	.87	.87	.87	.86	.85	.84	.84	.83	.84	.84	.85	.86	.86	.86	.86	
25-35S 09	16.51	16.31	15.81	15.11	14.30	13.52	12.88	12.44	12.21	12.16	12.21	12.27	12.31	12.29	12.26	12.28	12.42	12.73	13.24	13.90	14.65	15.39	16.01	16.40	
	1.24	1.24	1.23	1.22	1.20	1.19	1.18	1.17	1.17	1.17	1.17	1.18	1.18	1.18	1.18	1.17	1.17	1.18	1.18	1.19	1.21	1.22	1.23	1.24	
	.83	.83	.84	.84	.85	.86	.86	.86	.86	.86	.86	.87	.87	.87	.87	.88	.87	.87	.87	.86	.85	.84	.83	.83	
35-45S 09	12.64	12.88	13.15	13.35	13.43	13.30	12.95	12.40	11.73	11.04	10.42	9.95	9.71	9.69	9.89	10.25	10.70	11.19	11.61	11.93	12.16	12.27	12.36	12.47	
	1.17	1.17	1.17	1.18	1.17	1.17	1.16	1.16	1.15	1.15	1.14	1.14	1.14	1.14	1.14	1.14	1.15	1.16	1.16	1.17	1.17	1.17	1.17	1.17	
	.86	.85	.85	.85	.85	.85	.85	.86	.87	.88	.89	.90	.90	.90	.90	.90	.89	.88	.88	.87	.87	.87	.87	.86	
45-55S 09	15.70	16.11	16.26	16.08	15.57	14.79	13.82	12.78	11.83	11.05	10.53	10.25	10.20	10.33	10.58	10.89	11.23	11.61	12.04	12.53	13.10	13.75	14.43	15.12	
	1.19	1.19	1.19	1.20	1.19	1.19	1.18	1.17	1.16	1.14	1.13	1.12	1.12	1.12	1.13	1.13	1.14	1.15	1.15	1.16	1.17	1.17	1.18	1.18	
	.83	.83	.82	.82	.82	.83	.84	.85	.86	.87	.88	.88	.88	.88	.88	.88	.87	.87	.87	.87	.86	.86	.85	.84	
55-65S 09	17.37	17.22	16.77	16.11	15.30	14.43	13.55	12.72	11.95	11.25	10.65	10.14	9.76	9.53	9.51	9.75	10.28	11.10	12.16	13.37	14.61	15.73	16.61	17.17	
	1.25	1.25	1.25	1.24	1.22	1.21	1.19	1.17	1.16	1.15	1.14	1.13	1.13	1.12	1.12	1.12	1.13	1.14	1.15	1.17	1.19	1.21	1.23	1.24	
	.82	.83	.85	.86	.86	.87	.87	.87	.87	.87	.87	.87	.88	.88	.88	.87	.86	.85	.84	.82	.81	.80	.80	.81	

MONTH	00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23
55-65N 04	18.68	18.97	18.74	18.07	17.13	16.10	15.13	14.31	13.69	13.21	12.81	12.40	11.91	11.35	10.78	10.32	10.12	10.30	10.94	12.02	13.44	15.04	16.58	17.85
	1.22	1.23	1.23	1.22	1.22	1.20	1.19	1.18	1.17	1.16	1.15	1.14	1.14	1.13	1.12	1.12	1.11	1.11	1.12	1.13	1.15	1.16	1.19	1.20
	.75	.75	.75	.77	.78	.80	.81	.82	.82	.83	.83	.84	.84	.85	.86	.87	.87	.86	.85	.84	.81	.79	.77	.75
45-55N 04	15.73	15.85	15.78	15.56	15.20	14.76	14.29	13.85	13.45	13.13	12.86	12.65	12.48	12.35	12.28	12.28	12.38	12.60	12.95	13.40	13.94	14.49	15.01	15.44
	1.18	1.18	1.18	1.18	1.19	1.18	1.18	1.18	1.17	1.17	1.16	1.16	1.16	1.15	1.15	1.15	1.15	1.15	1.15	1.15	1.16	1.17	1.17	1.18
	.79	.79	.79	.80	.81	.82	.82	.83	.83	.84	.84	.84	.84	.84	.85	.85	.85	.84	.84	.83	.82	.81	.80	.80
35-45N 04	13.65	13.37	13.02	12.65	12.30	11.98	11.72	11.51	11.35	11.23	11.13	11.05	10.99	10.98	11.03	11.18	11.44	11.82	12.29	12.79	13.25	13.60	13.79	13.80
	1.17	1.16	1.16	1.15	1.15	1.14	1.14	1.14	1.14	1.15	1.15	1.15	1.15	1.15	1.15	1.15	1.15	1.15	1.16	1.16	1.16	1.17	1.17	1.17
	.82	.82	.83	.83	.84	.84	.85	.85	.85	.86	.87	.87	.88	.88	.88	.88	.87	.86	.85	.83	.82	.82	.81	.82
25-35N																								
15-25N 04	24.57	24.22	23.55	22.57	21.31	19.82	18.20	16.59	15.14	13.97	13.19	12.86	13.00	13.59	14.55	15.81	17.27	18.81	20.32	21.70	22.86	23.75	24.33	24.60
	1.36	1.35	1.34	1.32	1.30	1.28	1.25	1.22	1.20	1.18	1.17	1.16	1.16	1.17	1.18	1.19	1.22	1.24	1.27	1.29	1.32	1.34	1.35	1.36
	.77	.77	.78	.78	.79	.80	.81	.82	.83	.84	.84	.84	.84	.83	.81	.80	.78	.77	.76	.75	.75	.75	.76	.76
5-15N																								
5N-5S 10	20.20	22.98	25.04	25.94	25.50	23.76	21.07	17.94	14.93	12.52	10.99	10.37	10.47	10.96	11.48	11.78	11.73	11.40	11.02	10.90	11.32	12.52	14.53	17.20
	1.28	1.32	1.36	1.38	1.38	1.35	1.31	1.26	1.22	1.18	1.15	1.14	1.14	1.14	1.15	1.15	1.15	1.14	1.13	1.13	1.13	1.15	1.18	1.23
	.76	.74	.72	.72	.73	.76	.79	.82	.85	.88	.89	.90	.89	.89	.88	.87	.87	.87	.87	.87	.86	.85	.82	.79
5-15S 10	25.53	26.94	27.56	27.22	25.87	23.64	20.78	17.64	14.58	11.94	9.96	8.72	8.22	8.33	8.91	9.80	10.90	12.15	13.57	15.20	17.05	19.13	21.36	23.56
	1.35	1.38	1.40	1.41	1.40	1.37	1.32	1.27	1.22	1.17	1.13	1.11	1.10	1.09	1.10	1.11	1.13	1.14	1.16	1.18	1.21	1.24	1.27	1.31
	.70	.69	.69	.70	.73	.76	.79	.82	.85	.88	.89	.90	.90	.89	.89	.87	.86	.85	.83	.81	.79	.76	.74	.72
15-25S 10	22.52	22.76	22.73	22.31	21.45	20.20	18.70	17.14	15.76	14.75	14.23	14.24	14.73	15.58	16.63	17.71	18.70	19.51	20.13	20.59	20.96	21.32	21.70	22.12
	1.28	1.28	1.29	1.29	1.29	1.28	1.26	1.24	1.22	1.20	1.19	1.19	1.19	1.20	1.21	1.23	1.24	1.25	1.26	1.27	1.27	1.27	1.27	1.27
	.73	.73	.73	.74	.75	.77	.79	.81	.83	.83	.83	.82	.81	.80	.78	.77	.76	.75	.75	.75	.75	.75	.74	.74
25-35S 10	17.79	18.07	17.97	17.47	16.62	15.57	14.51	13.63	13.07	12.92	13.13	13.63	14.25	14.84	15.27	15.49	15.51	15.41	15.31	15.32	15.54	15.98	16.58	17.24
	1.23	1.24	1.24	1.23	1.22	1.21	1.20	1.18	1.17	1.17	1.17	1.17	1.18	1.19	1.21	1.22	1.22	1.23	1.22	1.22	1.22	1.22	1.22	1.23
	.79	.79	.80	.81	.82	.83	.84	.84	.84	.84	.83	.82	.82	.82	.82	.82	.82	.83	.83	.83	.83	.82	.81	.80
35-45S 10	14.75	15.03	15.20	15.21	15.03	14.66	14.14	13.56	12.99	12.51	12.17	12.00	11.98	12.09	12.27	12.51	12.75	12.98	13.19	13.39	13.59	13.83	14.11	14.43
	1.20	1.21	1.21	1.21	1.21	1.20	1.19	1.19	1.17	1.16	1.16	1.16	1.16	1.16	1.16	1.17	1.17	1.17	1.18	1.18	1.18	1.18	1.19	1.20
	.83	.83	.83	.83	.83	.83	.83	.84	.84	.85	.85	.85	.86	.86	.86	.86	.86	.85	.85	.85	.84	.84	.84	.83
45-55S 10	15.38	15.41	15.30	15.03	14.64	14.16	13.65	13.18	12.80	12.53	12.41	12.38	12.44	12.54	12.68	12.85	13.06	13.30	13.59	13.92	14.28	14.63	14.95	15.21
	1.21	1.21	1.21	1.20	1.19	1.18	1.17	1.17	1.16	1.16	1.16	1.16	1.16	1.16	1.16	1.17	1.17	1.18	1.18	1.19	1.19	1.20	1.20	1.21
	.83	.82	.82	.82	.82	.83	.84	.84	.84	.85	.85	.85	.85	.85	.85	.85	.85	.85	.84	.84	.84	.84	.83	.83
55-65S 10	20.57	20.59	20.01	18.95	17.58	16.13	14.80	13.75	13.03	12.62	12.44	12.36	12.29	12.16	12.01	11.92	12.01	12.41	13.19	14.35	15.80	17.36	18.82	19.95
	1.31	1.31	1.31	1.29	1.27	1.24	1.22	1.20	1.18	1.17	1.16	1.16	1.16	1.15	1.15	1.15	1.15	1.16	1.17	1.19	1.22	1.24	1.27	1.29
	.78	.79	.80	.82	.84	.85	.86	.86	.86	.85	.85	.84	.84	.84	.84	.85	.85	.85	.84	.82	.81	.79	.78	.78

MONTH	00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23
55-65N 09	17.63	17.61	17.21	16.54	15.73	14.89	14.11	13.43	12.85	12.32	11.81	11.26	10.69	10.15	9.71	9.51	9.65	10.20	11.13	12.38	13.80	15.19	16.38	17.22
	1.23	1.22	1.22	1.21	1.20	1.19	1.18	1.17	1.17	1.16	1.15	1.15	1.13	1.12	1.12	1.11	1.12	1.12	1.14	1.16	1.18	1.20	1.21	1.22
	.77	.78	.78	.79	.80	.82	.83	.84	.84	.85	.86	.86	.87	.88	.88	.89	.88	.87	.86	.84	.82	.81	.79	.78
45-55N 09	16.18	15.95	15.59	15.18	14.76	14.33	13.88	13.42	12.91	12.34	11.75	11.17	10.67	10.33	10.24	10.45	10.99	11.80	12.78	13.83	14.78	15.53	16.02	16.23
	1.21	1.21	1.20	1.19	1.19	1.18	1.17	1.16	1.15	1.15	1.14	1.13	1.12	1.12	1.12	1.13	1.13	1.15	1.17	1.18	1.19	1.21	1.21	1.21
	.81	.82	.82	.83	.83	.83	.83	.84	.84	.85	.85	.86	.86	.87	.87	.87	.87	.86	.85	.84	.83	.82	.81	.81
35-45N 09	13.19	13.00	12.78	12.56	12.36	12.16	11.95	11.72	11.45	11.14	10.81	10.47	10.18	10.00	9.97	10.12	10.47	10.98	11.57	12.17	12.69	13.07	13.27	13.30
	1.18	1.18	1.18	1.17	1.17	1.17	1.16	1.16	1.16	1.15	1.15	1.14	1.14	1.14	1.14	1.14	1.14	1.15	1.16	1.16	1.17	1.18	1.18	1.18
	.85	.86	.86	.86	.87	.87	.87	.87	.87	.87	.88	.89	.89	.90	.90	.90	.89	.89	.88	.86	.85	.85	.85	.85
25-35N																								
15-25N 09	24.15	23.72	23.07	22.18	21.07	19.78	18.39	17.01	15.76	14.72	13.99	13.62	13.65	14.09	14.92	16.11	17.55	19.12	20.66	22.04	23.13	23.87	24.27	24.35
	1.35	1.34	1.34	1.33	1.31	1.30	1.28	1.26	1.23	1.21	1.20	1.19	1.18	1.18	1.19	1.21	1.23	1.25	1.28	1.30	1.32	1.34	1.34	1.35
	.80	.81	.81	.81	.82	.82	.83	.83	.84	.84	.84	.84	.84	.83	.82	.80	.79	.78	.77	.76	.77	.78	.78	.79
5-15N																								
5N-5S 03	18.03	20.06	21.55	22.20	21.87	20.61	18.64	16.32	14.04	12.12	10.76	10.03	9.82	9.95	10.21	10.41	10.48	10.44	10.41	10.57	11.11	12.17	13.77	15.80
	1.24	1.27	1.29	1.30	1.30	1.28	1.26	1.23	1.20	1.17	1.15	1.14	1.14	1.14	1.14	1.14	1.14	1.14	1.14	1.14	1.15	1.16	1.18	1.21
	.79	.77	.75	.74	.74	.76	.78	.81	.84	.86	.88	.89	.89	.89	.88	.88	.88	.88	.87	.87	.87	.86	.85	.84
5-15S 03	25.86	27.67	28.61	28.44	27.08	24.65	21.49	18.04	14.76	12.05	10.16	9.15	8.94	9.35	10.13	11.08	12.07	13.08	14.15	15.40	16.95	18.87	21.12	23.54
	1.35	1.38	1.40	1.41	1.39	1.36	1.31	1.26	1.20	1.16	1.13	1.11	1.10	1.11	1.12	1.13	1.15	1.16	1.18	1.19	1.21	1.24	1.27	1.31
	.70	.69	.69	.70	.72	.74	.78	.81	.84	.87	.88	.89	.89	.89	.88	.86	.85	.83	.82	.80	.78	.76	.74	.72
15-25S 03	20.14	19.79	19.32	18.70	17.92	17.01	16.06	15.18	14.49	14.07	13.97	14.19	14.70	15.42	16.29	17.22	18.13	18.97	19.66	20.16	20.47	20.58	20.54	20.39
	1.27	1.26	1.25	1.25	1.24	1.23	1.22	1.22	1.21	1.20	1.20	1.21	1.21	1.22	1.24	1.25	1.27	1.28	1.29	1.29	1.29	1.29	1.28	1.27
	.79	.79	.80	.80	.81	.82	.83	.84	.85	.85	.85	.85	.84	.83	.82	.81	.81	.80	.79	.79	.79	.79	.79	.79
25-35S 03	14.79	14.71	14.52	14.26	13.92	13.55	13.17	12.82	12.54	12.33	12.20	12.15	12.16	12.23	12.36	12.54	12.79	13.10	13.46	13.82	14.17	14.46	14.67	14.78
	1.21	1.21	1.20	1.20	1.19	1.18	1.18	1.17	1.16	1.16	1.15	1.15	1.15	1.15	1.15	1.16	1.16	1.17	1.17	1.18	1.19	1.20	1.20	1.21
	.84	.84	.84	.84	.85	.85	.85	.85	.85	.85	.85	.85	.85	.85	.84	.84	.84	.84	.84	.84	.84	.84	.84	.84
35-45S 03	12.71	12.57	12.49	12.45	12.49	12.55	12.61	12.66	12.67	12.64	12.59	12.51	12.45	12.42	12.44	12.51	12.63	12.80	12.96	13.09	13.15	13.13	13.03	12.88
	1.17	1.17	1.17	1.17	1.17	1.16	1.16	1.17	1.16	1.16	1.16	1.17	1.17	1.17	1.17	1.18	1.18	1.18	1.18	1.17	1.17	1.17	1.17	1.17
	.87	.87	.87	.86	.86	.86	.86	.86	.85	.85	.85	.85	.86	.86	.86	.86	.86	.86	.86	.86	.87	.86	.86	.87
45-55S 03	13.81	13.95	14.01	13.97	13.83	13.59	13.27	12.91	12.56	12.27	12.06	11.94	11.89	11.90	11.94	12.02	12.13	12.27	12.44	12.66	12.90	13.15	13.39	13.61
	1.17	1.17	1.17	1.17	1.17	1.17	1.17	1.16	1.16	1.16	1.15	1.15	1.15	1.16	1.16	1.16	1.16	1.16	1.16	1.16	1.16	1.17	1.17	1.17
	.82	.83	.83	.83	.83	.83	.84	.84	.85	.85	.85	.86	.86	.86	.87	.87	.87	.86	.86	.85	.85	.84	.84	.83
55-65S 03	17.47	17.72	17.55	17.00	16.18	15.24	14.33	13.55	12.98	12.62	12.40	12.26	12.10	11.89	11.64	11.41	11.29	11.39	11.80	12.52	13.52	14.67	15.82	16.80
	1.21	1.21	1.21	1.21	1.20	1.19	1.18	1.17	1.17	1.16	1.16	1.16	1.16	1.16	1.16	1.15	1.15	1.15	1.15	1.16	1.16	1.18	1.19	1.20
	.76	.76	.76	.77	.79	.80	.82	.83	.84	.84	.85	.85	.85	.86	.86	.87	.87	.87	.86	.85	.83	.81	.79	.77

MONTH	00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23
55-65N 10	16.98	16.78	16.54	16.32	16.10	15.85	15.53	15.10	14.53	13.84	13.07	12.32	11.69	11.28	11.18	11.45	12.07	12.98	14.03	15.09	15.99	16.65	17.01	17.09
	1.22	1.22	1.22	1.21	1.21	1.21	1.21	1.20	1.19	1.18	1.17	1.16	1.15	1.14	1.14	1.14	1.15	1.17	1.18	1.20	1.21	1.22	1.23	1.23
	.80	.80	.80	.81	.81	.81	.82	.82	.83	.83	.84	.85	.85	.86	.86	.86	.85	.85	.84	.82	.82	.81	.80	.80
45-55N 10	15.22	15.06	14.94	14.84	14.74	14.58	14.34	14.00	13.59	13.13	12.69	12.34	12.13	12.11	12.30	12.70	13.25	13.87	14.48	14.99	15.34	15.50	15.50	15.38
	1.19	1.19	1.19	1.19	1.19	1.19	1.18	1.18	1.17	1.17	1.16	1.16	1.15	1.15	1.16	1.17	1.18	1.19	1.20	1.20	1.21	1.21	1.21	1.20
	.82	.82	.82	.82	.82	.82	.83	.83	.83	.84	.85	.85	.86	.86	.86	.86	.85	.85	.84	.84	.83	.83	.82	.82
35-45N 10	12.95	12.63	12.49	12.49	12.57	12.63	12.58	12.37	12.01	11.52	11.01	10.59	10.37	10.44	10.82	11.48	12.30	13.15	13.87	14.33	14.48	14.30	13.91	13.42
	1.18	1.18	1.17	1.17	1.17	1.17	1.17	1.17	1.16	1.15	1.15	1.14	1.14	1.14	1.14	1.15	1.16	1.18	1.19	1.20	1.20	1.20	1.19	1.19
	.87	.87	.88	.87	.87	.86	.86	.87	.87	.87	.88	.88	.88	.88	.88	.87	.86	.85	.85	.84	.84	.85	.85	.86
25-35N																								
15-25N 10	22.36	22.00	21.36	20.41	19.15	17.65	16.08	14.60	13.40	12.64	12.38	12.66	13.43	14.56	15.94	17.40	18.80	20.03	21.01	21.72	22.18	22.43	22.54	22.52
	1.31	1.31	1.30	1.29	1.27	1.25	1.23	1.20	1.18	1.16	1.16	1.16	1.16	1.18	1.21	1.23	1.26	1.28	1.30	1.31	1.32	1.32	1.32	1.32
	.79	.79	.80	.80	.81	.82	.83	.84	.85	.85	.85	.84	.83	.82	.81	.80	.79	.79	.79	.79	.79	.80	.80	.80
5-15N																								
5N-5S 04	16.07	18.62	20.77	22.08	22.27	21.35	19.53	17.23	14.96	13.13	12.01	11.62	11.81	12.28	12.70	12.82	12.52	11.86	11.02	10.29	10.00	10.39	11.60	13.56
	1.21	1.25	1.29	1.31	1.32	1.31	1.28	1.24	1.20	1.18	1.16	1.15	1.16	1.17	1.18	1.19	1.18	1.17	1.15	1.14	1.13	1.13	1.14	1.17
	.81	.79	.77	.77	.77	.78	.79	.81	.83	.85	.86	.86	.87	.87	.87	.87	.87	.87	.87	.87	.87	.86	.85	.83
5-15S 04	29.75	31.49	32.14	31.51	29.64	26.75	23.23	19.57	16.21	13.51	11.65	10.65	10.35	10.56	11.06	11.72	12.51	13.50	14.79	16.51	18.72	21.37	24.29	27.20
	1.40	1.44	1.46	1.46	1.44	1.40	1.34	1.28	1.22	1.17	1.14	1.13	1.12	1.13	1.14	1.15	1.16	1.17	1.18	1.20	1.23	1.26	1.31	1.35
	.67	.67	.69	.71	.74	.78	.81	.83	.85	.86	.86	.86	.86	.86	.85	.85	.84	.83	.81	.79	.76	.73	.70	.68
15-25S 04	17.61	17.97	18.34	18.59	18.64	18.47	18.14	17.77	17.50	17.45	17.66	18.12	18.74	19.40	19.95	20.28	20.32	20.06	19.56	18.91	18.26	17.73	17.42	17.39
	1.25	1.26	1.26	1.27	1.26	1.26	1.26	1.25	1.26	1.26	1.27	1.29	1.30	1.31	1.32	1.32	1.31	1.30	1.28	1.26	1.25	1.25	1.24	1.25
	.83	.83	.82	.82	.82	.82	.82	.83	.83	.83	.84	.83	.83	.83	.82	.82	.82	.82	.82	.82	.82	.83	.83	.83
25-35S 04	16.15	15.73	15.22	14.66	14.05	13.44	12.85	12.34	11.95	11.73	11.67	11.79	12.07	12.47	12.98	13.57	14.22	14.89	15.52	16.05	16.44	16.64	16.64	16.47
	1.22	1.21	1.20	1.19	1.18	1.17	1.17	1.16	1.16	1.16	1.16	1.16	1.16	1.17	1.18	1.19	1.20	1.21	1.22	1.23	1.23	1.23	1.23	1.23
	.84	.84	.84	.84	.85	.85	.86	.86	.86	.87	.86	.86	.86	.85	.85	.84	.84	.84	.84	.84	.84	.84	.84	.84
35-45S 04	14.08	13.83	13.72	13.69	13.69	13.63	13.45	13.17	12.81	12.43	12.12	11.95	11.99	12.26	12.75	13.38	14.07	14.71	15.20	15.45	15.46	15.24	14.86	14.44
	1.18	1.18	1.18	1.17	1.17	1.17	1.17	1.17	1.17	1.17	1.17	1.17	1.17	1.17	1.17	1.18	1.19	1.20	1.21	1.22	1.22	1.21	1.20	1.19
	.86	.85	.85	.84	.84	.84	.85	.85	.86	.87	.87	.87	.88	.88	.87	.86	.86	.85	.85	.85	.85	.85	.86	.86
45-55S 04	14.48	14.26	14.18	14.17	14.17	14.09	13.85	13.46	12.95	12.42	11.95	11.68	11.67	11.93	12.48	13.21	14.02	14.78	15.38	15.72	15.78	15.59	15.24	14.83
	1.18	1.17	1.17	1.17	1.17	1.17	1.17	1.17	1.16	1.15	1.14	1.14	1.14	1.14	1.15	1.16	1.18	1.19	1.20	1.21	1.21	1.20	1.20	1.19
	.83	.83	.83	.83	.83	.83	.83	.84	.85	.85	.86	.86	.86	.86	.86	.85	.85	.84	.83	.82	.82	.82	.82	.83
55-65S 04	20.75	21.04	21.12	20.93	20.41	19.56	18.41	17.07	15.66	14.34	13.24	12.47	12.08	12.09	12.46	13.14	14.04	15.07	16.16	17.21	18.17	19.01	19.72	20.31
	1.28	1.29	1.29	1.29	1.29	1.28	1.26	1.23	1.21	1.18	1.16	1.15	1.14	1.14	1.14	1.16	1.17	1.19	1.21	1.23	1.24	1.25	1.26	1.27
	.76	.76	.77	.78	.79	.80	.81	.82	.83	.84	.84	.84	.85	.85	.84	.84	.83	.82	.81	.80	.79	.77	.76	.76

\*\*\*\*\* AP LESS THAN 20 -- SOLAR RANGE 41 - 109 \*\*\*\*\*

MONTH	00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23
55-65N 03	18.76	19.14	19.22	19.07	18.74	18.30	17.78	17.21	16.58	15.86	15.05	14.17	13.25	12.39	11.66	11.21	11.12	11.43	12.15	13.21	14.48	15.81	17.04	18.05
	1.24	1.25	1.25	1.24	1.24	1.24	1.23	1.22	1.21	1.20	1.18	1.17	1.15	1.14	1.13	1.12	1.13	1.14	1.15	1.17	1.19	1.21	1.23	1.24
	.77	.77	.76	.77	.77	.77	.78	.79	.79	.79	.80	.80	.81	.83	.83	.84	.85	.85	.85	.84	.82	.81	.80	.78
45-55N 03	14.71	14.79	14.77	14.68	14.57	14.43	14.25	14.01	13.68	13.22	12.66	12.02	11.37	10.80	10.38	10.19	10.27	10.63	11.20	11.93	12.71	13.44	14.04	14.47
	1.19	1.19	1.19	1.19	1.19	1.18	1.17	1.16	1.16	1.14	1.13	1.12	1.12	1.11	1.10	1.10	1.11	1.12	1.13	1.15	1.16	1.17	1.18	1.19
	.82	.82	.82	.82	.82	.82	.82	.81	.82	.82	.82	.83	.84	.84	.85	.86	.86	.86	.85	.85	.85	.84	.83	.83
35-45N 03	12.41	12.23	12.04	11.85	11.65	11.39	11.03	10.54	9.92	9.20	8.49	7.87	7.44	7.30	7.47	7.95	8.68	9.57	10.48	11.30	11.94	12.36	12.55	12.55
	1.17	1.17	1.17	1.16	1.16	1.15	1.14	1.13	1.12	1.11	1.10	1.09	1.09	1.09	1.09	1.10	1.11	1.12	1.14	1.15	1.16	1.17	1.17	1.17
	.86	.86	.87	.87	.87	.87	.87	.88	.88	.89	.90	.91	.91	.91	.91	.91	.90	.89	.88	.87	.86	.86	.86	.86
25-35N																								
15-25N 03	29.52	30.57	30.50	29.23	26.87	23.67	20.01	16.32	12.98	10.31	8.46	7.44	7.17	7.49	8.25	9.33	10.70	12.35	14.33	16.65	19.29	22.14	24.98	27.55
	1.46	1.48	1.47	1.44	1.39	1.34	1.27	1.21	1.16	1.13	1.11	1.10	1.10	1.11	1.12	1.13	1.15	1.17	1.20	1.24	1.28	1.34	1.39	1.43
	.75	.75	.75	.76	.77	.79	.82	.84	.87	.89	.91	.91	.92	.91	.90	.89	.87	.85	.83	.82	.80	.78	.77	.76
5-15N																								
5N-5S 09	16.14	17.93	19.45	20.34	20.38	19.51	17.87	15.76	13.57	11.66	10.32	9.65	9.59	9.97	10.54	11.09	11.45	11.59	11.56	11.51	11.62	12.09	13.01	14.40
	1.22	1.24	1.26	1.27	1.27	1.26	1.24	1.21	1.18	1.16	1.15	1.14	1.14	1.15	1.16	1.16	1.17	1.17	1.17	1.17	1.17	1.17	1.18	1.20
	.80	.78	.76	.75	.75	.76	.79	.82	.85	.87	.89	.90	.90	.90	.89	.88	.87	.87	.87	.87	.87	.86	.85	.83
5-15S 09	21.32	23.51	24.97	25.41	24.69	22.87	20.21	17.09	13.97	11.23	9.17	7.90	7.37	7.41	7.81	8.34	8.90	9.45	10.10	10.98	12.26	14.01	16.23	18.76
	1.26	1.30	1.34	1.36	1.36	1.33	1.29	1.24	1.19	1.14	1.10	1.08	1.07	1.07	1.08	1.09	1.09	1.09	1.10	1.10	1.11	1.13	1.17	1.21
	.73	.71	.70	.71	.72	.75	.78	.81	.84	.87	.88	.89	.90	.89	.89	.88	.87	.87	.86	.84	.83	.81	.78	.75
15-25S 09	25.13	24.75	24.18	23.38	22.33	21.02	19.53	17.97	16.51	15.31	14.52	14.23	14.46	15.19	16.33	17.75	19.31	20.87	22.30	23.51	24.41	24.99	25.28	25.31
	1.32	1.32	1.32	1.31	1.31	1.30	1.28	1.26	1.23	1.21	1.20	1.19	1.19	1.20	1.22	1.24	1.26	1.28	1.30	1.31	1.32	1.32	1.32	1.32
	.78	.77	.77	.77	.78	.79	.80	.81	.82	.83	.83	.83	.82	.81	.80	.79	.79	.79	.78	.78	.79	.79	.78	.78
25-35S 09	15.10	15.74	16.04	15.91	15.37	14.47	13.36	12.18	11.10	10.24	9.67	9.39	9.34	9.43	9.59	9.77	9.95	10.16	10.47	10.91	11.53	12.33	13.26	14.23
	1.20	1.21	1.22	1.22	1.22	1.20	1.18	1.16	1.15	1.13	1.12	1.12	1.12	1.12	1.12	1.13	1.13	1.13	1.13	1.13	1.14	1.15	1.17	1.18
	.82	.81	.82	.82	.83	.84	.85	.86	.87	.88	.88	.89	.89	.89	.89	.89	.88	.88	.87	.86	.85	.84	.83	.82
35-45S 09	13.15	13.51	13.82	14.04	14.12	14.03	13.74	13.26	12.63	11.91	11.17	10.51	9.98	9.63	9.49	9.54	9.76	10.12	10.56	11.03	11.50	11.95	12.37	12.77
	1.17	1.17	1.18	1.18	1.18	1.17	1.17	1.16	1.16	1.15	1.14	1.14	1.13	1.13	1.13	1.13	1.14	1.14	1.15	1.15	1.16	1.17	1.17	1.17
	.84	.83	.83	.83	.83	.83	.83	.84	.85	.86	.87	.88	.88	.89	.89	.89	.89	.88	.88	.87	.87	.86	.85	.85
45-55S 09	15.04	15.44	15.71	15.81	15.72	15.44	15.01	14.45	13.81	13.15	12.52	11.98	11.53	11.23	11.06	11.01	11.12	11.36	11.74	12.20	12.76	13.35	13.96	14.53
	1.17	1.17	1.17	1.17	1.17	1.17	1.16	1.15	1.14	1.14	1.13	1.12	1.12	1.12	1.12	1.12	1.13	1.13	1.14	1.15	1.15	1.16	1.16	1.17
	.79	.79	.78	.78	.78	.79	.79	.80	.81	.82	.83	.84	.85	.85	.85	.86	.86	.85	.85	.85	.84	.83	.82	.81
55-65S 09	21.10	21.92	22.20	21.92	21.14	19.99	18.66	17.33	16.14	15.19	14.48	13.99	13.62	13.32	13.05	12.83	12.73	12.85	13.29	14.11	15.29	16.74	18.32	19.84
	1.25	1.27	1.28	1.29	1.28	1.27	1.25	1.22	1.20	1.18	1.16	1.15	1.14	1.14	1.14	1.14	1.14	1.14	1.15	1.16	1.17	1.19	1.21	1.23
	.72	.71	.72	.73	.74	.76	.77	.79	.79	.79	.79	.79	.79	.79	.80	.80	.81	.82	.82	.82	.81	.79	.77	.75



MONTH	00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23
55-65N 04	17.11	17.57	17.67	17.46	17.02	16.48	15.96	15.53	15.22	14.99	14.79	14.53	14.16	13.66	13.08	12.51	12.05	11.83	11.94	12.40	13.19	14.21	15.30	16.32
	1.18	1.19	1.20	1.20	1.20	1.19	1.18	1.18	1.17	1.16	1.15	1.15	1.14	1.13	1.13	1.12	1.11	1.11	1.11	1.12	1.13	1.14	1.15	1.17
	.76	.75	.76	.76	.77	.78	.79	.79	.79	.79	.80	.79	.80	.81	.81	.82	.83	.83	.83	.82	.81	.80	.78	.76
45-55N 04	12.93	13.14	13.36	13.61	13.89	14.19	14.51	14.83	15.10	15.31	15.38	15.32	15.12	14.78	14.35	13.88	13.41	13.01	12.70	12.50	12.43	12.46	12.56	12.73
	1.14	1.14	1.14	1.15	1.15	1.16	1.16	1.17	1.17	1.17	1.17	1.16	1.15	1.15	1.14	1.13	1.13	1.13	1.13	1.13	1.13	1.13	1.14	1.14
	.83	.82	.81	.81	.80	.80	.80	.79	.79	.78	.78	.77	.77	.78	.78	.79	.80	.81	.82	.83	.84	.84	.83	.83
35-45N 04	10.90	11.10	11.37	11.70	12.01	12.23	12.27	12.10	11.71	11.15	10.50	9.87	9.33	8.98	8.85	8.92	9.17	9.52	9.89	10.22	10.47	10.62	10.71	10.79
	1.14	1.13	1.13	1.13	1.14	1.14	1.14	1.13	1.13	1.12	1.11	1.10	1.09	1.08	1.09	1.09	1.10	1.10	1.11	1.12	1.13	1.13	1.13	1.14
	.86	.86	.85	.85	.84	.84	.83	.83	.84	.85	.86	.87	.88	.88	.89	.88	.88	.88	.87	.87	.87	.87	.87	.87
25-35N																								
15-25N 04	21.05	21.75	22.00	21.69	20.77	19.28	17.31	15.07	12.79	10.71	9.04	7.91	7.36	7.37	7.86	8.73	9.88	11.22	12.68	14.20	15.75	17.27	18.70	19.99
	1.28	1.28	1.28	1.28	1.27	1.25	1.22	1.19	1.16	1.14	1.11	1.10	1.09	1.09	1.10	1.12	1.14	1.16	1.18	1.20	1.22	1.24	1.26	1.27
	.76	.76	.76	.76	.77	.79	.81	.84	.86	.88	.89	.90	.91	.91	.91	.90	.89	.88	.86	.85	.83	.81	.79	.78
5-15N																								
5N-5S 10	16.26	18.25	19.87	20.81	20.86	19.97	18.31	16.18	13.96	12.01	10.57	9.74	9.47	9.59	9.88	10.16	10.30	10.31	10.25	10.28	10.59	11.32	12.56	14.26
	1.20	1.23	1.26	1.28	1.28	1.28	1.26	1.23	1.20	1.18	1.16	1.14	1.14	1.13	1.13	1.13	1.12	1.12	1.11	1.11	1.11	1.12	1.14	1.17
	.81	.79	.79	.78	.79	.80	.81	.83	.86	.87	.89	.89	.89	.89	.88	.88	.87	.86	.86	.85	.85	.84	.83	.82
5-15S 10	18.07	19.90	21.09	21.43	20.85	19.41	17.33	14.90	12.43	10.20	8.42	7.17	6.45	6.15	6.16	6.35	6.68	7.12	7.75	8.66	9.93	11.62	13.65	15.88
	1.22	1.26	1.28	1.30	1.30	1.28	1.25	1.21	1.17	1.14	1.11	1.09	1.08	1.07	1.07	1.07	1.07	1.08	1.08	1.09	1.10	1.12	1.15	1.19
	.77	.76	.75	.75	.77	.78	.81	.83	.86	.88	.90	.91	.92	.92	.92	.91	.91	.90	.89	.87	.85	.83	.81	.79
15-25S 10	18.39	18.48	18.46	18.26	17.79	17.02	15.97	14.74	13.48	12.36	11.54	11.12	11.16	11.62	12.42	13.44	14.54	15.58	16.48	17.16	17.64	17.94	18.14	18.27
	1.24	1.24	1.24	1.24	1.24	1.23	1.21	1.20	1.18	1.16	1.15	1.15	1.15	1.15	1.16	1.18	1.19	1.21	1.22	1.23	1.24	1.24	1.24	1.24
	.81	.81	.80	.80	.80	.80	.81	.83	.84	.85	.86	.86	.86	.86	.85	.84	.83	.82	.82	.82	.82	.82	.82	.81
25-35S 10	13.78	14.79	15.51	15.78	15.53	14.79	13.66	12.33	11.02	9.91	9.13	8.73	8.66	8.82	9.09	9.36	9.55	9.66	9.75	9.91	10.24	10.80	11.63	12.66
	1.19	1.21	1.22	1.22	1.22	1.21	1.19	1.16	1.14	1.12	1.11	1.10	1.10	1.10	1.10	1.11	1.11	1.12	1.12	1.12	1.13	1.14	1.15	1.17
	.84	.83	.83	.83	.83	.84	.85	.86	.87	.88	.88	.88	.88	.88	.88	.88	.88	.88	.88	.88	.88	.87	.86	.85
35-45S 10	12.77	13.38	13.91	14.30	14.49	14.46	14.20	13.78	13.23	12.64	12.08	11.59	11.21	10.94	10.76	10.65	10.59	10.57	10.60	10.68	10.88	11.19	11.62	12.16
	1.16	1.17	1.18	1.19	1.18	1.18	1.17	1.17	1.16	1.14	1.13	1.12	1.12	1.12	1.12	1.12	1.12	1.13	1.13	1.13	1.13	1.13	1.14	1.15
	.85	.84	.83	.83	.82	.82	.82	.82	.83	.83	.84	.85	.86	.86	.87	.87	.87	.87	.87	.87	.87	.86	.86	.85
45-55S 10	13.72	14.10	14.41	14.60	14.71	14.75	14.74	14.70	14.66	14.57	14.42	14.17	13.83	13.42	12.98	12.56	12.22	12.02	11.99	12.13	12.42	12.82	13.26	
	1.17	1.17	1.17	1.18	1.18	1.18	1.18	1.18	1.17	1.17	1.16	1.16	1.15	1.14	1.14	1.13	1.13	1.13	1.14	1.14	1.15	1.15	1.16	1.16
	.83	.82	.82	.82	.82	.81	.81	.80	.80	.80	.80	.80	.80	.80	.80	.82	.83	.84	.85	.85	.85	.85	.84	.84
55-65S 10	17.22	18.05	18.45	18.35	17.81	16.99	16.06	15.22	14.60	14.27	14.18	14.23	14.28	14.22	13.99	13.58	13.07	12.62	12.36	12.42	12.88	13.71	14.83	16.07
	1.19	1.20	1.21	1.21	1.21	1.21	1.20	1.20	1.19	1.19	1.19	1.19	1.18	1.18	1.17	1.16	1.16	1.15	1.15	1.15	1.15	1.16	1.17	1.18
	.76	.75	.74	.75	.76	.78	.79	.81	.82	.83	.83	.82	.82	.81	.81	.82	.82	.83	.83	.83	.82	.81	.80	.78

MONTH	00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23	
55-65N 09	18.12	18.41	18.30	17.85	17.18	16.43	15.74	15.18	14.78	14.50	14.27	14.00	13.64	13.17	12.66	12.19	11.89	11.88	12.23	12.96	13.98	15.18	16.39	17.41	
	1.20	1.21	1.21	1.21	1.20	1.20	1.19	1.18	1.17	1.17	1.17	1.16	1.16	1.16	1.15	1.14	1.14	1.13	1.13	1.14	1.15	1.16	1.18	1.19	
	.76	.75	.75	.76	.77	.78	.79	.80	.81	.81	.82	.82	.83	.84	.84	.85	.85	.85	.84	.83	.81	.80	.78	.76	
45-55N 09	15.40	15.54	15.58	15.57	15.51	15.43	15.35	15.27	15.15	14.99	14.75	14.45	14.08	13.68	13.31	13.03	12.88	12.90	13.10	13.44	13.87	14.34	14.78	15.14	
	1.18	1.18	1.18	1.18	1.18	1.18	1.17	1.18	1.18	1.17	1.17	1.17	1.17	1.16	1.16	1.16	1.16	1.16	1.16	1.16	1.17	1.17	1.17	1.17	
	.79	.79	.79	.78	.79	.79	.79	.79	.79	.80	.80	.81	.81	.82	.83	.83	.84	.84	.84	.84	.83	.82	.82	.81	.80
35-45N 09	12.88	12.75	12.62	12.51	12.44	12.39	12.32	12.19	11.98	11.65	11.24	10.79	10.36	10.03	9.88	9.94	10.22	10.67	11.24	11.82	12.33	12.70	12.91	12.95	
	1.16	1.15	1.15	1.15	1.15	1.14	1.14	1.14	1.14	1.13	1.13	1.13	1.12	1.12	1.12	1.12	1.12	1.13	1.14	1.14	1.15	1.15	1.16	1.16	
	.84	.84	.84	.84	.84	.84	.84	.84	.84	.85	.85	.86	.87	.87	.87	.88	.87	.86	.86	.85	.84	.83	.83	.83	
25-35N																									
15-25N 09	25.99	26.17	25.79	24.82	23.30	21.35	19.13	16.85	14.72	12.90	11.54	10.69	10.39	10.60	11.28	12.36	13.79	15.46	17.29	19.18	21.03	22.73	24.18	25.30	
	1.40	1.41	1.40	1.39	1.36	1.32	1.28	1.24	1.20	1.16	1.14	1.12	1.12	1.12	1.13	1.15	1.18	1.21	1.25	1.28	1.31	1.34	1.36	1.39	
	.75	.76	.76	.77	.78	.80	.81	.83	.84	.85	.86	.86	.86	.86	.85	.84	.83	.82	.81	.79	.78	.77	.76	.76	
5-15N																									
5N-5S 03	15.58	16.97	18.09	18.72	18.72	18.06	16.85	15.27	13.60	12.06	10.86	10.08	9.71	9.67	9.83	10.06	10.27	10.43	10.59	10.81	11.22	11.89	12.87	14.14	
	1.21	1.24	1.26	1.27	1.27	1.26	1.24	1.21	1.18	1.16	1.14	1.13	1.13	1.13	1.13	1.14	1.14	1.15	1.15	1.15	1.15	1.16	1.17	1.19	
	.82	.81	.80	.80	.80	.80	.81	.83	.84	.86	.87	.88	.89	.89	.89	.89	.89	.88	.88	.88	.87	.86	.85	.84	
5-15S 03	19.60	21.36	22.50	22.84	22.32	20.99	19.01	16.64	14.14	11.80	9.81	8.29	7.27	6.70	6.50	6.59	6.93	7.52	8.38	9.58	11.13	13.04	15.20	17.46	
	1.22	1.26	1.29	1.31	1.31	1.30	1.27	1.23	1.19	1.15	1.11	1.09	1.08	1.07	1.07	1.08	1.08	1.08	1.08	1.09	1.10	1.12	1.14	1.18	
	.73	.72	.72	.73	.75	.77	.79	.82	.84	.86	.88	.89	.90	.91	.92	.91	.91	.89	.87	.85	.82	.79	.77	.74	
15-25S 03	16.60	16.69	16.87	17.03	17.02	16.71	16.01	14.93	13.57	12.13	10.82	9.85	9.40	9.53	10.20	11.30	12.64	14.00	15.19	16.07	16.59	16.77	16.75	16.65	
	1.21	1.21	1.22	1.22	1.22	1.21	1.20	1.19	1.17	1.16	1.14	1.13	1.13	1.13	1.14	1.15	1.16	1.17	1.18	1.19	1.20	1.20	1.21	1.21	
	.79	.79	.79	.78	.79	.79	.81	.82	.84	.86	.88	.89	.90	.89	.88	.87	.85	.83	.82	.80	.79	.79	.79	.79	
25-35S 03	12.93	13.45	13.95	14.35	14.58	14.58	14.33	13.82	13.11	12.27	11.40	10.61	9.98	9.56	9.39	9.43	9.65	9.97	10.36	10.75	11.15	11.54	11.96	12.42	
	1.17	1.17	1.18	1.19	1.19	1.19	1.19	1.18	1.17	1.15	1.13	1.11	1.10	1.09	1.09	1.09	1.10	1.11	1.11	1.12	1.13	1.14	1.15	1.16	
	.84	.84	.83	.83	.83	.83	.83	.84	.84	.85	.86	.87	.88	.88	.88	.87	.87	.87	.86	.86	.85	.85	.85	.85	
35-45S 03	10.31	10.66	11.11	11.64	12.17	12.62	12.92	13.00	12.82	12.40	11.80	11.11	10.44	9.87	9.45	9.24	9.18	9.24	9.37	9.52	9.66	9.78	9.90	10.07	
	1.14	1.14	1.14	1.14	1.15	1.15	1.15	1.15	1.15	1.14	1.14	1.13	1.12	1.12	1.11	1.11	1.11	1.12	1.12	1.12	1.13	1.13	1.13	1.13	
	.87	.87	.86	.86	.85	.84	.83	.83	.83	.84	.84	.86	.87	.88	.88	.88	.88	.88	.88	.88	.88	.88	.87	.87	
45-55S 03	11.85	12.01	12.27	12.60	13.00	13.47	13.97	14.47	14.92	15.29	15.51	15.57	15.45	15.17	14.75	14.25	13.70	13.17	12.69	12.30	12.01	11.82	11.74	11.75	
	1.14	1.14	1.14	1.15	1.15	1.16	1.17	1.17	1.18	1.18	1.18	1.18	1.18	1.17	1.17	1.16	1.16	1.15	1.15	1.14	1.14	1.14	1.14	1.14	
	.85	.84	.84	.83	.83	.82	.82	.80	.79	.79	.79	.78	.78	.79	.79	.81	.82	.83	.83	.84	.84	.84	.84	.85	
55-65S 03	16.42	17.60	18.43	18.78	18.67	18.20	17.54	16.88	16.39	16.13	16.10	16.19	16.25	16.15	15.77	15.12	14.26	13.35	12.60	12.18	12.22	12.77	13.77	15.05	
	1.18	1.19	1.20	1.21	1.21	1.22	1.22	1.22	1.22	1.22	1.22	1.22	1.22	1.21	1.19	1.18	1.17	1.15	1.14	1.14	1.14	1.15	1.16	1.17	
	.77	.75	.74	.74	.74	.76	.78	.79	.81	.81	.81	.81	.81	.81	.80	.80	.80	.81	.82	.83	.83	.83	.82	.81	

MONTH	00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23	
55-65N	10	19.30	19.26	19.01	18.63	18.19	17.75	17.31	16.86	16.37	15.80	15.15	14.42	13.68	13.02	12.57	12.42	12.64	13.24	14.17	15.31	16.50	17.60	18.48	19.05
		1.22	1.22	1.22	1.22	1.22	1.22	1.21	1.21	1.20	1.19	1.18	1.16	1.15	1.14	1.13	1.13	1.14	1.15	1.16	1.18	1.19	1.21	1.21	1.22
		.76	.77	.77	.77	.77	.78	.78	.78	.78	.79	.80	.81	.82	.82	.83	.83	.82	.82	.81	.79	.78	.77	.77	.76
45-55N	10	15.74	15.50	15.25	15.03	14.84	14.66	14.48	14.26	13.96	13.59	13.16	12.73	12.34	12.09	12.03	12.20	12.61	13.21	13.92	14.63	15.24	15.67	15.88	15.89
		1.20	1.19	1.18	1.18	1.17	1.17	1.17	1.16	1.16	1.15	1.14	1.13	1.13	1.12	1.13	1.13	1.14	1.15	1.16	1.18	1.19	1.20	1.20	1.20
		.80	.80	.80	.80	.80	.80	.81	.81	.82	.83	.84	.84	.84	.84	.84	.84	.84	.83	.82	.82	.82	.81	.81	.81
35-45N	10	13.85	13.28	12.73	12.26	11.88	11.55	11.22	10.83	10.36	9.79	9.19	8.65	8.28	8.19	8.44	9.06	9.98	11.11	12.28	13.33	14.11	14.53	14.59	14.33
		1.18	1.18	1.17	1.16	1.15	1.15	1.14	1.13	1.13	1.12	1.11	1.11	1.10	1.10	1.11	1.11	1.12	1.14	1.15	1.17	1.18	1.18	1.19	1.19
		.84	.85	.86	.86	.87	.87	.87	.87	.87	.88	.88	.89	.90	.90	.90	.89	.88	.86	.85	.84	.83	.83	.83	.84
25-35N																									
15-25N	10	28.21	28.18	27.50	26.15	24.17	21.72	19.01	16.33	13.92	12.01	10.72	10.11	10.14	10.76	11.87	13.39	15.21	17.25	19.37	21.48	23.45	25.20	26.63	27.66
		1.43	1.43	1.42	1.40	1.37	1.33	1.29	1.24	1.20	1.17	1.14	1.13	1.13	1.14	1.15	1.18	1.21	1.25	1.28	1.32	1.35	1.38	1.40	1.42
		.73	.74	.75	.77	.79	.82	.84	.86	.87	.88	.88	.88	.87	.86	.85	.84	.83	.82	.80	.79	.77	.76	.74	.74
5-15N																									
5N-5S	04	15.50	17.19	18.46	19.01	18.70	17.60	15.94	14.05	12.33	11.07	10.44	10.41	10.80	11.36	11.84	12.04	11.90	11.49	11.00	10.63	10.62	11.12	12.18	13.71
		1.21	1.23	1.25	1.26	1.25	1.24	1.21	1.19	1.17	1.16	1.15	1.15	1.16	1.17	1.17	1.17	1.17	1.16	1.15	1.14	1.14	1.15	1.16	1.19
		.81	.79	.77	.76	.76	.77	.80	.82	.85	.87	.89	.90	.90	.90	.89	.89	.89	.89	.89	.89	.88	.88	.86	.84
5-15S	04	16.90	19.34	21.19	22.15	22.07	20.96	19.02	16.56	13.96	11.55	9.60	8.23	7.40	6.98	6.80	6.71	6.63	6.58	6.69	7.13	8.07	9.60	11.70	14.22
		1.20	1.23	1.26	1.28	1.28	1.27	1.25	1.22	1.18	1.15	1.12	1.10	1.09	1.08	1.07	1.06	1.06	1.06	1.06	1.07	1.08	1.10	1.13	1.16
		.77	.74	.72	.71	.72	.74	.77	.80	.83	.86	.88	.90	.90	.90	.90	.90	.90	.91	.91	.90	.89	.87	.84	.81
15-25S	04	25.46	25.36	25.20	24.87	24.21	23.11	21.56	19.64	17.56	15.57	13.97	13.02	12.86	13.55	14.97	16.92	19.11	21.24	23.05	24.40	25.22	25.59	25.66	25.57
		1.30	1.29	1.29	1.29	1.28	1.27	1.26	1.24	1.21	1.19	1.17	1.16	1.16	1.17	1.19	1.22	1.26	1.29	1.31	1.33	1.33	1.33	1.32	1.31
		.79	.79	.78	.78	.78	.79	.80	.82	.83	.84	.85	.85	.84	.83	.82	.81	.80	.79	.79	.79	.80	.80	.80	.80
25-35S	04	17.68	17.68	17.20	16.32	15.15	13.85	12.54	11.36	10.38	9.63	9.11	8.77	8.58	8.51	8.58	8.81	9.26	9.99	11.00	12.25	13.64	15.04	16.28	17.20
		1.24	1.24	1.23	1.22	1.21	1.19	1.17	1.15	1.13	1.12	1.11	1.10	1.10	1.10	1.10	1.11	1.12	1.13	1.15	1.17	1.19	1.21	1.22	1.24
		.79	.79	.80	.81	.83	.85	.86	.87	.88	.88	.89	.89	.89	.89	.89	.89	.88	.88	.87	.85	.83	.82	.80	.79
35-45S	04	13.09	13.31	13.44	13.44	13.30	12.99	12.53	11.96	11.33	10.69	10.14	9.69	9.41	9.30	9.34	9.55	9.87	10.28	10.74	11.20	11.66	12.09	12.47	12.80
		1.16	1.17	1.17	1.18	1.18	1.18	1.17	1.16	1.15	1.14	1.13	1.12	1.12	1.11	1.11	1.11	1.12	1.12	1.13	1.14	1.15	1.15	1.16	1.16
		.83	.84	.84	.84	.84	.85	.86	.86	.86	.87	.87	.88	.88	.88	.88	.88	.87	.87	.86	.86	.85	.85	.84	.84
45-55S	04	15.80	15.81	15.69	15.49	15.19	14.80	14.31	13.73	13.07	12.37	11.68	11.05	10.58	10.30	10.28	10.52	11.02	11.71	12.53	13.39	14.19	14.86	15.35	15.66
		1.19	1.19	1.19	1.19	1.18	1.18	1.17	1.15	1.14	1.13	1.12	1.11	1.11	1.10	1.10	1.11	1.11	1.12	1.14	1.15	1.16	1.18	1.18	1.19
		.80	.80	.80	.80	.80	.80	.81	.82	.84	.85	.86	.87	.88	.88	.88	.87	.86	.85	.84	.83	.82	.81	.80	.80
55-65S	04	18.97	20.10	20.89	21.22	21.07	20.48	19.56	18.48	17.40	16.44	15.67	15.09	14.66	14.31	13.99	13.70	13.44	13.28	13.31	13.61	14.22	15.14	16.32	17.65
		1.22	1.24	1.26	1.28	1.28	1.27	1.26	1.23	1.21	1.18	1.16	1.14	1.13	1.12	1.12	1.12	1.12	1.12	1.13	1.13	1.14	1.16	1.17	1.20
		.77	.76	.75	.75	.76	.76	.77	.78	.78	.79	.79	.78	.78	.78	.79	.79	.80	.81	.81	.81	.81	.80	.79	.78

\*\*\*\*\* AP LESS THAN 20 -- SOALR RANGE 110 - 200 \*\*\*\*\*

MONTH	00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23
55-65N 03	18.76	19.14	19.22	19.07	18.74	18.30	17.78	17.21	16.58	15.86	15.05	14.17	13.25	12.39	11.66	11.21	11.12	11.43	12.15	13.21	14.48	15.81	17.04	18.05
	1.24	1.25	1.25	1.24	1.24	1.24	1.23	1.22	1.21	1.20	1.18	1.17	1.15	1.14	1.13	1.12	1.13	1.14	1.15	1.17	1.19	1.21	1.23	1.24
	.77	.77	.76	.77	.77	.77	.78	.79	.79	.79	.80	.80	.81	.83	.83	.84	.85	.85	.85	.84	.82	.81	.80	.78
45-55N 03	14.71	14.79	14.77	14.68	14.57	14.43	14.25	14.01	13.68	13.22	12.66	12.02	11.37	10.80	10.38	10.19	10.27	10.63	11.20	11.93	12.71	13.44	14.04	14.47
	1.19	1.19	1.19	1.19	1.19	1.18	1.17	1.16	1.16	1.14	1.13	1.12	1.12	1.11	1.10	1.10	1.11	1.12	1.13	1.15	1.16	1.17	1.18	1.19
	.82	.82	.82	.82	.82	.82	.82	.81	.82	.82	.82	.83	.84	.84	.85	.86	.86	.86	.85	.85	.85	.84	.83	.83
35-45N 03	12.41	12.23	12.04	11.85	11.65	11.39	11.03	10.54	9.92	9.20	8.49	7.87	7.44	7.30	7.47	7.95	8.68	9.57	10.48	11.30	11.94	12.36	12.55	12.55
	1.17	1.17	1.17	1.16	1.16	1.15	1.14	1.13	1.12	1.11	1.10	1.09	1.09	1.09	1.09	1.10	1.11	1.12	1.14	1.15	1.16	1.17	1.17	1.17
	.86	.86	.87	.87	.87	.87	.87	.88	.88	.89	.90	.91	.91	.91	.91	.91	.90	.89	.88	.87	.86	.86	.86	.86
25-35N																								
15-25N 03	29.52	30.57	30.50	29.23	26.87	23.67	20.01	16.32	12.98	10.31	8.46	7.44	7.17	7.49	8.25	9.33	10.70	12.35	14.33	16.65	19.29	22.14	24.98	27.55
	1.46	1.48	1.47	1.44	1.39	1.34	1.27	1.21	1.16	1.13	1.11	1.10	1.10	1.11	1.12	1.13	1.15	1.17	1.20	1.24	1.28	1.34	1.39	1.43
	.75	.75	.75	.76	.77	.79	.82	.84	.87	.89	.91	.91	.92	.91	.90	.89	.87	.85	.83	.82	.80	.78	.77	.76
5-15N																								
5N-5S 09	16.14	17.93	19.45	20.34	20.38	19.51	17.87	15.76	13.57	11.66	10.32	9.65	9.59	9.97	10.54	11.09	11.45	11.59	11.56	11.51	11.62	12.09	13.01	14.40
	1.22	1.24	1.26	1.27	1.27	1.26	1.24	1.21	1.18	1.16	1.15	1.14	1.14	1.15	1.16	1.16	1.17	1.17	1.17	1.17	1.17	1.17	1.18	1.20
	.80	.78	.76	.75	.75	.76	.79	.82	.85	.87	.89	.90	.90	.90	.89	.88	.87	.87	.87	.87	.87	.86	.85	.83
5-15S 09	21.32	23.51	24.97	25.41	24.69	22.87	20.21	17.09	13.97	11.23	9.17	7.90	7.37	7.41	7.81	8.34	8.90	9.45	10.10	10.98	12.26	14.01	16.23	18.76
	1.26	1.30	1.34	1.36	1.36	1.33	1.29	1.24	1.19	1.14	1.10	1.08	1.07	1.07	1.08	1.09	1.09	1.09	1.10	1.10	1.11	1.13	1.17	1.21
	.73	.71	.70	.71	.72	.75	.78	.81	.84	.87	.88	.89	.90	.89	.89	.88	.87	.87	.86	.84	.83	.81	.78	.75
15-25S 09	25.13	24.75	24.18	23.38	22.33	21.02	19.53	17.97	16.51	15.31	14.52	14.23	14.46	15.19	16.33	17.75	19.31	20.87	22.30	23.51	24.41	24.99	25.28	25.31
	1.32	1.32	1.32	1.31	1.31	1.30	1.28	1.26	1.23	1.21	1.20	1.19	1.19	1.20	1.22	1.24	1.26	1.28	1.30	1.31	1.32	1.32	1.32	1.32
	.78	.77	.77	.77	.78	.79	.80	.81	.82	.83	.83	.83	.82	.81	.80	.79	.79	.79	.78	.78	.79	.79	.78	.78
25-35S 09	15.10	15.74	16.04	15.91	15.37	14.47	13.36	12.18	11.10	10.24	9.67	9.39	9.34	9.43	9.59	9.77	9.95	10.16	10.47	10.91	11.53	12.33	13.26	14.23
	1.20	1.21	1.22	1.22	1.22	1.20	1.18	1.16	1.15	1.13	1.12	1.12	1.12	1.12	1.12	1.13	1.13	1.13	1.13	1.13	1.14	1.15	1.17	1.18
	.82	.81	.82	.82	.83	.84	.85	.86	.87	.88	.88	.89	.89	.89	.89	.89	.88	.88	.88	.87	.86	.85	.84	.83
35-45S 09	13.15	13.51	13.82	14.04	14.12	14.03	13.74	13.26	12.63	11.91	11.17	10.51	9.98	9.63	9.49	9.54	9.76	10.12	10.56	11.03	11.50	11.95	12.37	12.77
	1.17	1.17	1.18	1.18	1.18	1.17	1.17	1.16	1.16	1.15	1.14	1.14	1.13	1.13	1.13	1.13	1.14	1.14	1.15	1.15	1.16	1.17	1.17	1.17
	.84	.83	.83	.83	.83	.83	.83	.84	.85	.86	.87	.88	.88	.89	.89	.89	.89	.88	.88	.87	.87	.86	.85	.85
45-55S 09	15.04	15.44	15.71	15.81	15.72	15.44	15.01	14.45	13.81	13.15	12.52	11.98	11.53	11.23	11.06	11.01	11.12	11.36	11.74	12.20	12.76	13.35	13.96	14.53
	1.17	1.17	1.17	1.17	1.17	1.17	1.16	1.15	1.14	1.14	1.13	1.12	1.12	1.12	1.12	1.12	1.13	1.13	1.14	1.15	1.15	1.16	1.16	1.17
	.79	.79	.78	.78	.78	.79	.79	.80	.81	.82	.83	.84	.85	.85	.85	.86	.86	.85	.85	.85	.84	.83	.82	.81
55-65S 09	21.10	21.92	22.20	21.92	21.14	19.99	18.66	17.33	16.14	15.19	14.48	13.99	13.62	13.32	13.05	12.83	12.73	12.85	13.29	14.11	15.29	16.74	18.32	19.84
	1.25	1.27	1.28	1.29	1.28	1.27	1.25	1.22	1.20	1.18	1.16	1.15	1.14	1.14	1.14	1.14	1.14	1.14	1.15	1.16	1.17	1.19	1.21	1.23
	.72	.71	.72	.73	.74	.76	.77	.79	.79	.79	.79	.79	.79	.79	.80	.80	.81	.82	.82	.82	.81	.79	.77	.75

MONTH	00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23
55-65N 04	17.11	17.57	17.67	17.46	17.02	16.48	15.96	15.53	15.22	14.99	14.79	14.53	14.16	13.66	13.08	12.51	12.05	11.83	11.94	12.40	13.19	14.21	15.30	16.32
	1.18	1.19	1.20	1.20	1.20	1.19	1.18	1.18	1.17	1.16	1.15	1.15	1.14	1.13	1.13	1.12	1.11	1.11	1.11	1.12	1.13	1.14	1.15	1.17
	.76	.75	.76	.76	.77	.78	.79	.79	.79	.79	.80	.79	.80	.81	.81	.82	.83	.83	.83	.82	.81	.80	.78	.76
45-55N 04	12.93	13.14	13.36	13.61	13.89	14.19	14.51	14.83	15.10	15.31	15.38	15.32	15.12	14.78	14.35	13.88	13.41	13.01	12.70	12.50	12.43	12.46	12.56	12.73
	1.14	1.14	1.14	1.15	1.15	1.16	1.16	1.17	1.17	1.17	1.17	1.16	1.15	1.15	1.14	1.13	1.13	1.13	1.13	1.13	1.13	1.13	1.14	1.14
	.83	.82	.81	.81	.80	.80	.80	.79	.79	.78	.78	.77	.77	.78	.78	.79	.80	.81	.82	.83	.84	.84	.83	.83
35-45N 04	10.90	11.10	11.37	11.70	12.01	12.23	12.27	12.10	11.71	11.15	10.50	9.87	9.33	8.98	8.85	8.92	9.17	9.52	9.89	10.22	10.47	10.62	10.71	10.79
	1.14	1.13	1.13	1.13	1.14	1.14	1.14	1.13	1.13	1.12	1.11	1.10	1.09	1.08	1.09	1.09	1.10	1.10	1.11	1.12	1.13	1.13	1.13	1.14
	.86	.86	.85	.85	.84	.84	.83	.83	.84	.85	.86	.87	.88	.88	.89	.88	.88	.88	.87	.87	.87	.87	.87	.87
25-35N																								
15-25N 04	21.05	21.75	22.00	21.69	20.77	19.28	17.31	15.07	12.79	10.71	9.04	7.91	7.36	7.37	7.86	8.73	9.88	11.22	12.68	14.20	15.75	17.27	18.70	19.99
	1.28	1.28	1.28	1.28	1.27	1.25	1.22	1.19	1.16	1.14	1.11	1.10	1.09	1.09	1.10	1.12	1.14	1.16	1.18	1.20	1.22	1.24	1.26	1.27
	.76	.76	.76	.76	.77	.79	.81	.84	.86	.88	.89	.90	.91	.91	.91	.90	.89	.88	.86	.85	.83	.81	.79	.78
5-15N																								
5N-5S 10	16.26	18.25	19.87	20.81	20.86	19.97	18.31	16.18	13.96	12.01	10.57	9.74	9.47	9.59	9.88	10.16	10.30	10.31	10.25	10.28	10.59	11.32	12.56	14.26
	1.20	1.23	1.26	1.28	1.28	1.28	1.26	1.23	1.20	1.18	1.16	1.14	1.13	1.13	1.13	1.12	1.12	1.11	1.11	1.11	1.11	1.12	1.14	1.17
	.81	.79	.79	.78	.79	.80	.81	.83	.86	.87	.89	.89	.89	.89	.88	.88	.87	.86	.86	.85	.85	.84	.83	.82
5-15S 10	18.07	19.90	21.09	21.43	20.85	19.41	17.33	14.90	12.43	10.20	8.42	7.17	6.45	6.15	6.16	6.35	6.68	7.12	7.75	8.66	9.93	11.62	13.65	15.88
	1.22	1.26	1.28	1.30	1.30	1.28	1.25	1.21	1.17	1.14	1.11	1.09	1.08	1.07	1.07	1.07	1.07	1.08	1.08	1.09	1.10	1.12	1.15	1.19
	.77	.76	.75	.75	.77	.78	.81	.83	.86	.88	.90	.91	.92	.92	.92	.91	.91	.90	.89	.87	.85	.83	.81	.79
15-25S 10	18.39	18.48	18.46	18.26	17.79	17.02	15.97	14.74	13.48	12.36	11.54	11.12	11.16	11.62	12.42	13.44	14.54	15.58	16.48	17.16	17.64	17.94	18.14	18.27
	1.24	1.24	1.24	1.24	1.24	1.23	1.21	1.20	1.18	1.16	1.15	1.15	1.15	1.15	1.16	1.18	1.19	1.21	1.22	1.23	1.24	1.24	1.24	1.24
	.81	.81	.80	.80	.80	.80	.81	.83	.84	.85	.86	.86	.86	.86	.85	.84	.83	.82	.82	.82	.82	.82	.82	.81
25-35S 10	13.78	14.79	15.51	15.78	15.53	14.79	13.66	12.33	11.02	9.91	9.13	8.73	8.66	8.82	9.09	9.36	9.55	9.66	9.75	9.91	10.24	10.80	11.63	12.66
	1.19	1.21	1.22	1.22	1.22	1.21	1.19	1.16	1.14	1.12	1.11	1.10	1.10	1.10	1.10	1.11	1.11	1.12	1.12	1.12	1.13	1.14	1.15	1.17
	.84	.83	.83	.83	.83	.84	.85	.86	.87	.88	.88	.88	.88	.88	.88	.88	.88	.88	.88	.88	.88	.87	.86	.85
35-45S 10	12.77	13.38	13.91	14.30	14.49	14.46	14.20	13.78	13.23	12.64	12.08	11.59	11.21	10.94	10.76	10.65	10.59	10.57	10.60	10.68	10.88	11.19	11.62	12.16
	1.16	1.17	1.18	1.19	1.18	1.18	1.17	1.17	1.16	1.14	1.13	1.12	1.12	1.12	1.12	1.12	1.12	1.12	1.13	1.13	1.13	1.13	1.14	1.15
	.85	.84	.83	.83	.82	.82	.82	.82	.83	.83	.84	.85	.86	.86	.87	.87	.87	.87	.87	.87	.87	.86	.86	.86
45-55S 10	13.72	14.10	14.41	14.60	14.71	14.75	14.75	14.74	14.70	14.66	14.57	14.42	14.17	13.83	13.42	12.98	12.56	12.22	12.02	11.99	12.13	12.42	12.82	13.26
	1.17	1.17	1.17	1.18	1.18	1.18	1.18	1.18	1.17	1.17	1.16	1.16	1.15	1.14	1.14	1.13	1.13	1.13	1.13	1.14	1.14	1.15	1.15	1.16
	.83	.82	.82	.82	.82	.81	.81	.80	.80	.80	.80	.80	.80	.80	.80	.82	.83	.84	.85	.85	.85	.85	.84	.84
55-65S 10	17.22	18.05	18.45	18.35	17.81	16.99	16.06	15.22	14.60	14.27	14.18	14.23	14.28	14.22	13.99	13.58	13.07	12.62	12.36	12.42	12.88	13.71	14.83	16.07
	1.19	1.20	1.21	1.21	1.21	1.21	1.20	1.20	1.19	1.19	1.19	1.19	1.18	1.18	1.17	1.16	1.16	1.15	1.15	1.15	1.15	1.16	1.17	1.18
	.76	.75	.74	.75	.76	.78	.79	.81	.82	.83	.83	.82	.82	.81	.81	.82	.82	.83	.83	.83	.82	.81	.80	.78

MONTH	00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23
55-65N 09	18.12	18.41	18.30	17.85	17.18	16.43	15.74	15.18	14.78	14.50	14.27	14.00	13.64	13.17	12.66	12.19	11.89	11.88	12.23	12.96	13.98	15.18	16.39	17.41
	1.20	1.21	1.21	1.21	1.20	1.20	1.19	1.18	1.17	1.17	1.17	1.16	1.16	1.16	1.15	1.14	1.14	1.13	1.13	1.14	1.15	1.16	1.18	1.19
	.76	.75	.75	.76	.77	.78	.79	.80	.81	.81	.82	.82	.83	.84	.84	.85	.85	.85	.84	.83	.81	.80	.78	.76
45-55N 09	15.40	15.54	15.58	15.57	15.51	15.43	15.35	15.27	15.15	14.99	14.75	14.45	14.08	13.68	13.31	13.03	12.88	12.90	13.10	13.44	13.87	14.34	14.78	15.14
	1.18	1.18	1.18	1.18	1.18	1.18	1.17	1.18	1.18	1.17	1.17	1.17	1.17	1.16	1.16	1.16	1.16	1.16	1.16	1.16	1.17	1.17	1.17	1.17
	.79	.79	.79	.78	.79	.79	.79	.79	.79	.80	.80	.81	.81	.82	.83	.83	.84	.84	.84	.83	.82	.82	.81	.80
35-45N 09	12.88	12.75	12.62	12.51	12.44	12.39	12.32	12.19	11.98	11.65	11.24	10.79	10.36	10.03	9.88	9.94	10.22	10.67	11.24	11.82	12.33	12.70	12.91	12.95
	1.16	1.15	1.15	1.15	1.15	1.14	1.14	1.14	1.14	1.13	1.13	1.13	1.12	1.12	1.12	1.12	1.12	1.13	1.14	1.14	1.15	1.15	1.16	1.16
	.84	.84	.84	.84	.84	.84	.84	.84	.84	.85	.85	.86	.87	.87	.87	.88	.87	.86	.86	.85	.84	.83	.83	.83
25-35N																								
15-25N 09	25.99	26.17	25.79	24.82	23.30	21.35	19.13	16.85	14.72	12.90	11.54	10.69	10.39	10.60	11.28	12.36	13.79	15.46	17.29	19.18	21.03	22.73	24.18	25.30
	1.40	1.41	1.40	1.39	1.36	1.32	1.28	1.24	1.20	1.16	1.14	1.12	1.12	1.12	1.13	1.15	1.18	1.21	1.25	1.28	1.31	1.34	1.36	1.39
	.75	.76	.76	.77	.78	.80	.81	.83	.84	.85	.86	.86	.86	.86	.85	.84	.83	.82	.81	.79	.78	.77	.76	.76
5-15N																								
5N-5S 03	15.58	16.97	18.09	18.72	18.72	18.06	16.85	15.27	13.60	12.06	10.86	10.08	9.71	9.67	9.83	10.06	10.27	10.43	10.59	10.81	11.22	11.89	12.87	14.14
	1.21	1.24	1.26	1.27	1.27	1.26	1.24	1.21	1.18	1.16	1.14	1.13	1.13	1.13	1.13	1.14	1.14	1.15	1.15	1.15	1.15	1.16	1.17	1.19
	.82	.81	.80	.80	.80	.80	.81	.83	.84	.86	.87	.88	.89	.89	.89	.89	.89	.88	.88	.88	.87	.86	.85	.84
5-15S 03	19.60	21.36	22.50	22.84	22.32	20.99	19.01	16.64	14.14	11.80	9.81	8.29	7.27	6.70	6.50	6.59	6.93	7.52	8.38	9.58	11.13	13.04	15.20	17.46
	1.22	1.26	1.29	1.31	1.31	1.30	1.27	1.23	1.19	1.15	1.11	1.09	1.08	1.07	1.07	1.08	1.08	1.08	1.08	1.09	1.10	1.12	1.14	1.18
	.73	.72	.72	.73	.75	.77	.79	.82	.84	.86	.88	.89	.90	.91	.92	.91	.91	.89	.87	.85	.82	.79	.77	.74
15-25S 03	16.60	16.69	16.87	17.03	17.02	16.71	16.01	14.93	13.57	12.13	10.82	9.85	9.40	9.53	10.20	11.30	12.64	14.00	15.19	16.07	16.59	16.77	16.75	16.65
	1.21	1.21	1.22	1.22	1.22	1.21	1.20	1.19	1.17	1.16	1.14	1.13	1.13	1.13	1.14	1.15	1.16	1.17	1.18	1.19	1.20	1.20	1.21	1.21
	.79	.79	.79	.78	.79	.79	.81	.82	.84	.86	.88	.89	.90	.89	.88	.87	.85	.83	.82	.80	.79	.79	.79	.79
25-35S 03	12.93	13.45	13.95	14.35	14.58	14.58	14.33	13.82	13.11	12.27	11.40	10.61	9.98	9.56	9.39	9.43	9.65	9.97	10.36	10.75	11.15	11.54	11.96	12.42
	1.17	1.17	1.18	1.19	1.19	1.19	1.19	1.18	1.17	1.15	1.13	1.11	1.10	1.09	1.09	1.09	1.10	1.11	1.11	1.12	1.13	1.14	1.15	1.16
	.84	.84	.83	.83	.83	.83	.83	.84	.84	.85	.86	.87	.88	.88	.88	.87	.87	.87	.86	.86	.85	.85	.85	.85
35-45S 03	10.31	10.66	11.11	11.64	12.17	12.62	12.92	13.00	12.82	12.40	11.80	11.11	10.44	9.87	9.45	9.24	9.18	9.24	9.37	9.52	9.66	9.78	9.90	10.07
	1.14	1.14	1.14	1.14	1.15	1.15	1.15	1.15	1.15	1.14	1.14	1.13	1.12	1.12	1.11	1.11	1.11	1.12	1.12	1.12	1.13	1.13	1.13	1.13
	.87	.87	.86	.86	.85	.84	.83	.83	.83	.84	.84	.86	.87	.88	.88	.88	.88	.88	.88	.88	.88	.88	.87	.87
45-55S 03	11.85	12.01	12.27	12.60	13.00	13.47	13.97	14.47	14.92	15.29	15.51	15.57	15.45	15.17	14.75	14.25	13.70	13.17	12.69	12.30	12.01	11.82	11.74	11.75
	1.14	1.14	1.14	1.15	1.15	1.16	1.17	1.17	1.18	1.18	1.18	1.18	1.18	1.17	1.17	1.16	1.16	1.15	1.15	1.14	1.14	1.14	1.14	1.14
	.85	.84	.84	.83	.83	.82	.82	.80	.79	.79	.79	.78	.78	.79	.79	.81	.82	.83	.83	.84	.84	.84	.84	.85
55-65S 03	16.42	17.60	18.43	18.78	18.67	18.20	17.54	16.88	16.39	16.13	16.10	16.19	16.25	16.15	15.77	15.12	14.26	13.35	12.60	12.18	12.22	12.77	13.77	15.05
	1.18	1.19	1.20	1.21	1.21	1.22	1.22	1.22	1.22	1.22	1.22	1.22	1.22	1.21	1.19	1.18	1.17	1.15	1.14	1.14	1.14	1.15	1.16	1.17
	.77	.75	.74	.74	.74	.76	.78	.79	.81	.81	.81	.81	.81	.81	.80	.80	.80	.81	.82	.83	.83	.83	.82	.79

MONTH	00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23
55-65N 10	19.30	19.26	19.01	18.63	18.19	17.75	17.31	16.86	16.37	15.80	15.15	14.42	13.68	13.02	12.57	12.42	12.64	13.24	14.17	15.31	16.50	17.60	18.48	19.05
	1.22	1.22	1.22	1.22	1.22	1.22	1.21	1.21	1.20	1.19	1.18	1.16	1.15	1.14	1.13	1.13	1.14	1.15	1.16	1.18	1.19	1.21	1.21	1.22
	.76	.77	.77	.77	.77	.78	.78	.78	.78	.79	.80	.81	.82	.82	.83	.83	.82	.82	.81	.79	.78	.77	.77	.76
45-55N 10	15.74	15.50	15.25	15.03	14.84	14.66	14.48	14.26	13.96	13.59	13.16	12.73	12.34	12.09	12.03	12.20	12.61	13.21	13.92	14.63	15.24	15.67	15.88	15.89
	1.20	1.19	1.18	1.18	1.17	1.17	1.17	1.16	1.16	1.15	1.14	1.13	1.13	1.12	1.13	1.13	1.14	1.15	1.16	1.18	1.19	1.20	1.20	1.20
	.80	.80	.80	.80	.80	.80	.80	.81	.81	.82	.83	.84	.84	.84	.84	.84	.84	.83	.82	.82	.82	.81	.81	.81
35-45N 10	13.85	13.28	12.73	12.26	11.88	11.55	11.22	10.83	10.36	9.79	9.19	8.65	8.28	8.19	8.44	9.06	9.98	11.11	12.28	13.33	14.11	14.53	14.59	14.33
	1.18	1.18	1.17	1.16	1.15	1.15	1.14	1.13	1.13	1.12	1.11	1.11	1.10	1.10	1.11	1.11	1.12	1.14	1.15	1.17	1.18	1.18	1.19	1.19
	.84	.85	.86	.86	.87	.87	.87	.87	.87	.88	.88	.89	.90	.90	.90	.89	.88	.86	.85	.84	.83	.83	.83	.84
25-35N																								
15-25N 10	28.21	28.18	27.50	26.15	24.17	21.72	19.01	16.33	13.92	12.01	10.72	10.11	10.14	10.76	11.87	13.39	15.21	17.25	19.37	21.48	23.45	25.20	26.63	27.66
	1.43	1.43	1.42	1.40	1.37	1.33	1.29	1.24	1.20	1.17	1.14	1.13	1.13	1.14	1.15	1.18	1.21	1.25	1.28	1.32	1.35	1.38	1.40	1.42
	.73	.74	.75	.77	.79	.82	.84	.86	.87	.88	.88	.88	.87	.86	.85	.84	.83	.82	.80	.79	.77	.76	.74	.74
5-15N																								
5N-5S 04	15.50	17.19	18.46	19.01	18.70	17.60	15.94	14.05	12.33	11.07	10.44	10.41	10.80	11.36	11.84	12.04	11.90	11.49	11.00	10.63	10.62	11.12	12.18	13.71
	1.21	1.23	1.25	1.26	1.25	1.24	1.21	1.19	1.17	1.16	1.15	1.15	1.16	1.17	1.17	1.17	1.17	1.16	1.15	1.14	1.14	1.15	1.16	1.19
	.81	.79	.77	.76	.76	.77	.80	.82	.85	.87	.89	.90	.90	.90	.89	.89	.89	.89	.89	.89	.88	.88	.86	.84
5-15S 04	16.90	19.34	21.19	22.15	22.07	20.96	19.02	16.56	13.96	11.55	9.60	8.23	7.40	6.98	6.80	6.71	6.63	6.58	6.69	7.13	8.07	9.60	11.70	14.22
	1.20	1.23	1.26	1.28	1.28	1.27	1.25	1.22	1.18	1.15	1.12	1.10	1.09	1.08	1.07	1.06	1.06	1.06	1.06	1.07	1.08	1.10	1.13	1.16
	.77	.74	.72	.71	.72	.74	.77	.80	.83	.86	.88	.90	.90	.90	.90	.90	.90	.91	.91	.90	.89	.87	.84	.81
15-25S 04	25.46	25.36	25.20	24.87	24.21	23.11	21.56	19.64	17.56	15.57	13.97	13.02	12.86	13.55	14.97	16.92	19.11	21.24	23.05	24.40	25.22	25.59	25.66	25.57
	1.30	1.29	1.29	1.29	1.28	1.27	1.26	1.24	1.21	1.19	1.17	1.16	1.16	1.17	1.19	1.22	1.26	1.29	1.31	1.33	1.33	1.33	1.32	1.31
	.79	.79	.78	.78	.78	.79	.80	.82	.83	.84	.85	.85	.84	.83	.82	.81	.80	.79	.79	.79	.80	.80	.80	.80
25-35S 04	17.68	17.68	17.20	16.32	15.15	13.85	12.54	11.36	10.38	9.63	9.11	8.77	8.58	8.51	8.58	8.81	9.26	9.99	11.00	12.25	13.64	15.04	16.28	17.20
	1.24	1.24	1.23	1.22	1.21	1.19	1.17	1.15	1.13	1.12	1.11	1.10	1.10	1.10	1.10	1.11	1.12	1.13	1.15	1.17	1.19	1.21	1.22	1.24
	.79	.79	.80	.81	.83	.85	.86	.87	.88	.88	.89	.89	.89	.89	.89	.89	.88	.88	.87	.85	.83	.82	.80	.79
35-45S 04	13.09	13.31	13.44	13.44	13.30	12.99	12.53	11.96	11.33	10.69	10.14	9.69	9.41	9.30	9.34	9.55	9.87	10.28	10.74	11.20	11.66	12.09	12.47	12.80
	1.16	1.17	1.17	1.18	1.18	1.18	1.17	1.16	1.15	1.14	1.13	1.12	1.12	1.11	1.11	1.11	1.12	1.12	1.13	1.14	1.15	1.15	1.16	1.16
	.83	.84	.84	.84	.84	.85	.86	.86	.87	.87	.88	.88	.88	.88	.88	.88	.87	.87	.86	.86	.85	.85	.84	.84
45-55S 04	15.80	15.81	15.69	15.49	15.19	14.80	14.31	13.73	13.07	12.37	11.68	11.05	10.58	10.30	10.28	10.52	11.02	11.71	12.53	13.39	14.19	14.86	15.35	15.66
	1.19	1.19	1.19	1.19	1.18	1.18	1.17	1.15	1.14	1.13	1.12	1.11	1.11	1.10	1.10	1.11	1.11	1.12	1.14	1.15	1.16	1.18	1.18	1.19
	.80	.80	.80	.80	.80	.80	.81	.82	.84	.85	.86	.87	.88	.88	.88	.87	.86	.85	.84	.83	.82	.81	.80	.80
55-65S 04	18.97	20.10	20.89	21.22	21.07	20.48	19.56	18.48	17.40	16.44	15.67	15.09	14.66	14.31	13.99	13.70	13.44	13.28	13.31	13.61	14.22	15.14	16.32	17.65
	1.22	1.24	1.26	1.28	1.28	1.27	1.26	1.23	1.21	1.18	1.16	1.14	1.13	1.12	1.12	1.12	1.12	1.12	1.13	1.13	1.14	1.16	1.17	1.20
	.77	.76	.75	.75	.76	.76	.77	.78	.78	.79	.79	.78	.78	.78	.79	.79	.80	.81	.81	.81	.81	.80	.79	.78





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