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AIR FORCE SURVEYS IN GEOPHYSICS NO. 448

A Global Reference Atmosphere From 18 to 80 km

GERALD VANN GROVES



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longitudinal variations are derived solely from the satellite-based tabulations. Comparisons are made between the rocket-based reference atmospheres, the satellite-based tabulations and the reference values presented here. *Key*

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Preface

The author gratefully acknowledges valuable discussions with Dr. K. S. W. Champion during the course of this work and the award of a National Research Council Research Associateship during the tenure of which the work was carried out in the Atmospheric Sciences Division, Air Force Geophysics Laboratory, Hanscom AFB, Massachusetts, USA.

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A Global Reference Atmosphere From 18 to 80 km

1. INTRODUCTION

The work presented in this report has been motivated in part by the preparation of tables of temperature and geopotential height, based on Nimbus 5 SCR and Nimbus 6 PMR, for the COSPAR Meeting, Graz 1984 by J. J. Barnett, the Department of Physics, University of Oxford.¹ The tables are of monthly means of (a) zonal mean values and (b) longitudinal wave 1 and 2 amplitudes and phases of temperature and geopotential height at latitude intervals of 10° from 80° S to 80° N at levels where $-\ln(\text{pressure}/\text{surface pressure}) = 2.5, 3.0, \dots, 12.0$. Additional motivation has been provided by the availability of tables of monthly mean temperature (also pressure and density) compiled for heights 20 to 80 km and latitudes 0° to 70° S from southern hemisphere rocketsonde data by Koshelkov.^{2,3,4}

Other reference atmospheres that are available in terms of geometric height with monthly time resolution are Air Force Reference Atmospheres⁵ and CIRA 1972,⁶ both of which are for northern latitudes only and are based on rocket data from sites that are located mostly on the North American continent or surrounding ocean areas. The recent tabulations mentioned above therefore offer the prospect of developing a reference atmosphere in terms of geometric height which has global coverage.

(Received for publication 24 May 1985)

(Due to the large number of references cited above, they will not be listed here. See References, page 11.)

The objective of the present work has been to intercompare the above tabulations of temperature and associated lower-boundary pressure at their common points; to determine reasonably representative values for these quantities; and to present reference temperatures, pressure and densities in a form that is convenient for potential users. Zonal mean values are also tabulated below for the following atmospheric parameters: number density, pressure scale height and geostrophic W-E wind.

2. INTERCOMPARISON OF TEMPERATURES

The differences were studied between the S hemisphere temperatures of Kosheikov and the satellite zonal mean values at heights 20, 25, ..., 80 km and latitudes 0° , 10° , ..., 70° S for each month. The averages of these differences were taken over 12 months at 10° , 20° and 30° S but at higher latitudes an unknown longitudinal dependence is likely to be present in the rocket values during a period spanning the winter months and therefore at 40° S averages were taken over 9 months (October to June) and at 50° , 60° and 70° S over 6 months (December to May). The average differences obtained are shown at 10° , 30° , 50° and 70° S in Figure 1.

Similar analyses were carried out for the N hemisphere temperatures of CIRA 1972 and Air Force Reference Atmospheres from 0° to 70° N, the averages at 40° N being taken over 9 months, February to October, and at 50° , 60° and 70° N over 6 months, April to September. The results obtained at 10° , 30° , 50° and 70° N are plotted in Figure 1 from which it is seen that:

- (a) Average differences between rocket and satellite values are small amounting to a few K at most heights.
- (b) Average differences are consistent for each of the three rocket reference atmospheres. Consistency between CIRA 1972 and Air Force Reference Atmospheres is not surprising as they are based on common rocket data, but for the S hemisphere the rocketsonde dataset is an independent one.
- (c) Average differences have a similar height profile at all latitudes except near 80 km where they decrease from 10K at low latitudes to 4K at high latitudes.

3. THE DERIVATION OF REFERENCE TEMPERATURES

At 20 to 30 km, radiosonde and rocketsonde data combine to provide a temperature accuracy that is smaller than the temperature differences in Figure 1 and therefore a case exists for making adjustments to the satellite values. Also above about 60 km the rocket data are obtained by well-established techniques such as the

grenade and falling sphere methods and appropriate adjustments to the satellite determination would appear to be in order. In the 50-km region the CIRA 1972 was prepared from measurements taken close to noon and it was recognized at the time of its preparation that temperature values were biased on this account. Figure 1 confirms that CIRA 1972 temperatures are higher than the other values in the region of 55 km and consequently CIRA 1972 from 45 to 60 km has not been taken into account when determining adjustments to the satellite values.

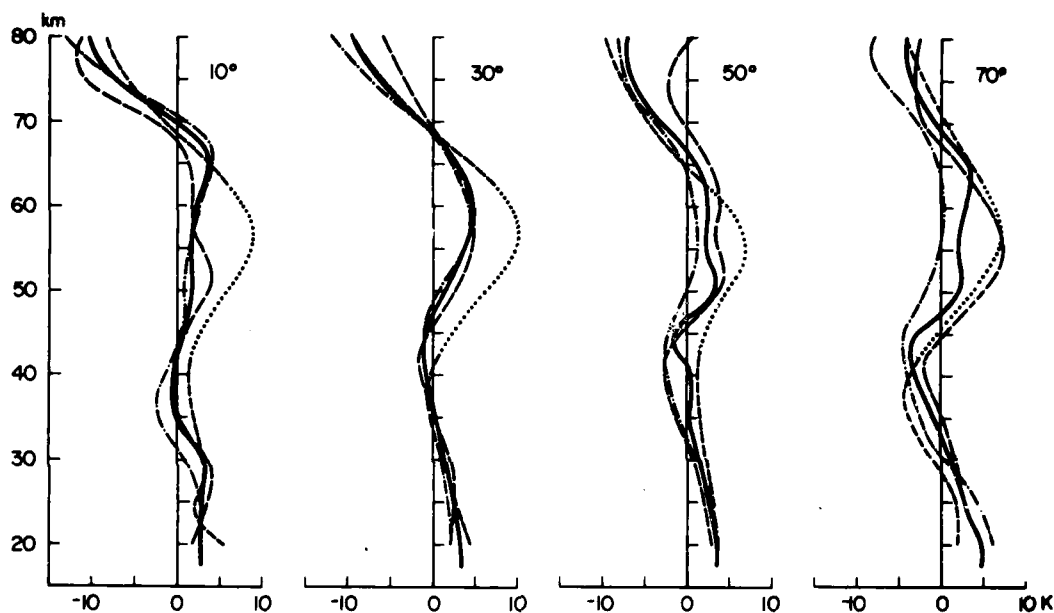


Figure 1. Comparisons of Rocket-Based and Satellite-Based Temperatures.¹ Averaged monthly mean rocket minus satellite temperatures are shown for the following rocket values: —, —, Koshelkov;^{2, 3, 4} —, —, Air Force Reference Atmospheres;⁵ —, —, CIRA 1972,⁶ where denotes values omitted in the subsequent analysis. Averages are for 12 months at 10°, 30° latitude and for December to May in the S hemisphere or April to September in the N hemisphere at 50°, 70° latitude. Key: — adjustments to be applied to satellite-based temperatures derived by weighted averaging of the other three curves

The continuous lines in Figure 1 have been obtained by averaging the three curves with omission of the CIRA 1972 curve between 45 and 60 km. The deviations of the continuous lines from the vertical axis are taken as adjustments to be applied to the satellite temperatures. The analysis is applied at 2.5-km intervals from 17.5 to 80 km, the deviations at 17.5 km being taken equal to those at 20 km.

In the same way, adjustments were determined for 0°, 20°, 40° and 60° latitude, while for 80° the 70° adjustments were adopted. Along with each value of adjustment, a value was obtained for its expected standard deviation based on the spread of the three curves in Figure 1.

Having adjusted satellite temperatures by the above procedure to obtain T' , pressure scale heights H' were calculated from

$$H' = RT/Mg \quad (1)$$

with $T = T'$, $R = 8314.32 \text{ JK}^{-1}(\text{kmol})^{-1}$, $M = 28.9644 \text{ kg}(\text{kmol})^{-1}$ and⁷

$$g = g_\phi / (1 + z/r_\phi)^2 \quad (2)$$

where

$$g_\phi = 9.780356 (1 + 0.0052885 \sin^2 \phi - 0.0000059 \sin^2 2\phi) \quad (\text{m s}^{-2})$$

$$r_\phi = 2 \times 10^6 g'_\phi / (3.08546 + 0.00227 \cos 2\phi) \quad (\text{m})$$

ϕ being latitude and z height in meters. Values of $1/H'$ were then smoothed to obtain $1/H_{\text{ref}}$ by a polynomial of degree 8 in height whose coefficients were polynomials of degree 8 in sine of latitude, thereby introducing 81 constants. The formula was fitted by the method of weighted least-squares⁸ at 17.5, 18.0, ..., 80 km and 80° S, 70° S, ..., 80° N latitude, that is, at 442 points, the weight given to $1/H'$ being derived from the estimated standard deviations of the temperature adjustments. New smoothed values of temperature T_{ref} were then calculated from Eq. (1) with $H = H_{\text{ref}}$.

The differences between the original satellite temperatures T_{sat} and T_{ref} are shown in Table 1. These values are actually the average for the 12 months as there is only a small month-to-month variation. The values in Table 1 show that the smoothing process essentially maintains the equatorial symmetry of the changes made to T_{sat} . Values of $T_{\text{sat}} - T_{\text{ref}}$ averaged over 12 months are plotted in Figure 2 (right-hand diagram) at 10°, 30°, 50° and 70° latitude; and the latitude dependence is seen to be small. The corresponding global average is given in Table 1. Differences between each of the three sets of rocket temperatures and T_{ref} averaged over a number of months according to the scheme in Section 2 are shown in Figure 2.

7. List, R. J. (1968) Smithsonian Meteorological Tables, Smithsonian Institution Press, Washington, D. C.

8. Groves, G. V. (1984) Atmospheric Structure Variations, Part II, Polynomial representation of Middle Atmosphere Structure, Scientific Report No. 1, 1 January - 31 December 1984, AFOSR-84-0045, Department of Physics and Astronomy, University College London, Gower Street, London WC1 6 BT, England, 24 October 1984.

Table 1. Satellite Temperatures Minus New Temperature Model (K) (Average of 12 monthly values and their global average)

LAT = KM	-80	-70	-60	-50	-40	-30	-20	-10	0	10	20	30	40	50	60	70	80	GLOBAL AV
17.5	-5.4	-5.2	-3.8	-3.4	-3.2	-3.6	-3.2	-2.8	-2.2	-2.8	-3.1	-3.7	-3.3	-3.3	-3.9	-5.0	-5.3	-3.3
20.0	-3.2	-3.3	-3.1	-3.4	-3.4	-3.6	-3.9	-3.2	-3.3	-3.2	-3.9	-3.7	-3.3	-3.3	-3.1	-3.4	-3.8	-3.5
22.5	-4.4	-4.6	-3.8	-3.0	-3.2	-3.2	-3.3	-2.4	-2.5	-2.5	-3.2	-3.1	-3.2	-3.0	-3.9	-4.0	-3.9	-3.2
25.0	-3.3	-3.8	-3.6	-2.2	-2.4	-2.2	-2.4	-1.9	-2.0	-2.1	-2.3	-2.1	-2.6	-2.6	-3.5	-3.5	-3.4	-2.5
27.5	-1.7	-2.1	-2.5	-1.8	-1.6	-1.7	-2.5	-2.6	-2.9	-2.9	-2.5	-1.6	-1.9	-2.0	-2.4	-2.2	-2.0	-2.3
30.0	-0.5	-0.6	-1.6	-1.7	-1.3	-1.4	-2.2	-2.5	-2.8	-2.6	-2.2	-1.5	-1.5	-1.6	-1.5	-1.0	-0.3	-1.8
32.5	0.1	0.4	-0.7	-1.4	-0.7	-0.7	-1.2	-1.3	-1.1	-1.2	-1.1	-0.9	-0.7	-1.0	-0.6	-0.1	0.7	-0.9
35.0	1.1	1.2	0.1	-0.9	-0.0	0.0	-0.2	-0.2	0.4	0.1	-0.2	-0.2	0.1	-0.3	0.0	0.5	1.5	0.1
37.5	2.0	1.7	0.5	-0.3	0.5	0.6	0.3	0.2	0.9	0.6	0.3	0.2	0.6	0.1	0.3	0.9	2.1	0.5
40.0	2.3	1.8	0.6	0.2	1.0	1.1	0.7	0.1	0.5	0.5	0.7	0.5	0.9	0.3	0.4	1.3	2.5	0.7
42.5	2.4	1.7	0.5	0.2	1.3	1.3	0.7	-0.4	-0.3	0.0	0.7	0.6	1.0	0.3	0.4	1.5	2.7	0.6
45.0	2.2	1.5	0.4	-0.3	0.9	1.0	0.5	-1.0	-1.1	-0.6	0.5	0.5	0.8	-0.1	0.2	1.4	2.5	0.3
47.5	1.7	1.1	-0.1	-1.1	-0.2	0.1	-0.3	-1.4	-1.6	-1.1	-0.3	-0.2	-0.0	-0.7	-0.3	0.9	1.9	-0.4
50.0	0.5	0.1	-1.2	-2.2	-1.8	-1.3	-1.4	-1.7	-1.6	-1.5	-1.5	-1.5	-1.4	-1.8	-1.4	-0.2	0.7	-1.4
52.5	-1.2	-1.4	-2.6	-3.3	-3.5	-3.1	-3.0	-1.9	-1.1	-1.8	-3.0	-3.2	-3.1	-3.0	-2.8	-1.8	-1.1	-2.6
55.0	-2.6	-2.7	-3.4	-3.8	-4.8	-4.6	-4.1	-2.1	-0.8	-2.1	-4.2	-4.6	-4.5	-4.0	-3.9	-3.0	-2.5	-3.5
57.5	-3.4	-3.4	-3.3	-3.5	-4.9	-5.1	-4.5	-2.1	-0.9	-2.2	-4.5	-5.1	-5.0	-4.0	-3.8	-3.5	-3.5	-3.7
60.0	-3.7	-3.6	-2.6	-2.5	-4.0	-4.4	-4.1	-2.1	-1.2	-2.3	-4.1	-4.4	-4.2	-3.1	-2.9	-3.4	-3.8	-3.3
62.5	-3.4	-3.2	-1.6	-1.2	-2.5	-3.3	-3.4	-2.4	-1.8	-2.6	-3.5	-3.3	-2.7	-1.7	-1.6	-2.9	-3.6	-2.6
65.0	-2.6	-2.3	-0.1	0.2	-1.2	-2.4	-2.8	-2.6	-2.3	-3.0	-3.1	-2.2	-1.2	-0.2	-0.0	-2.0	-2.7	-1.9
67.5	-1.1	-0.8	1.5	1.6	-0.0	-1.5	-2.2	-2.3	-2.3	-2.8	-2.5	-1.2	0.2	1.4	1.5	-0.7	-1.2	-1.0
70.0	0.5	0.8	3.2	3.2	1.7	0.2	-0.5	-0.5	-0.7	-1.0	-0.8	0.5	1.9	3.0	3.0	0.8	0.5	0.7
72.5	2.2	2.3	4.5	5.0	4.3	3.3	2.9	3.1	3.1	2.7	2.6	3.5	4.4	4.9	4.4	2.2	2.2	3.5
75.0	3.7	3.5	5.4	6.8	7.4	7.0	7.0	7.5	7.9	7.3	6.8	7.1	7.1	6.7	5.5	3.6	3.6	6.7
77.5	4.7	4.2	5.5	7.7	9.4	9.9	9.9	10.7	11.5	10.7	9.8	10.0	9.0	7.7	5.8	4.5	4.7	9.0
80.0	4.1	4.1	4.6	6.5	8.4	9.2	9.1	9.5	10.2	9.3	9.0	9.6	8.3	6.6	4.6	3.9	4.1	8.0

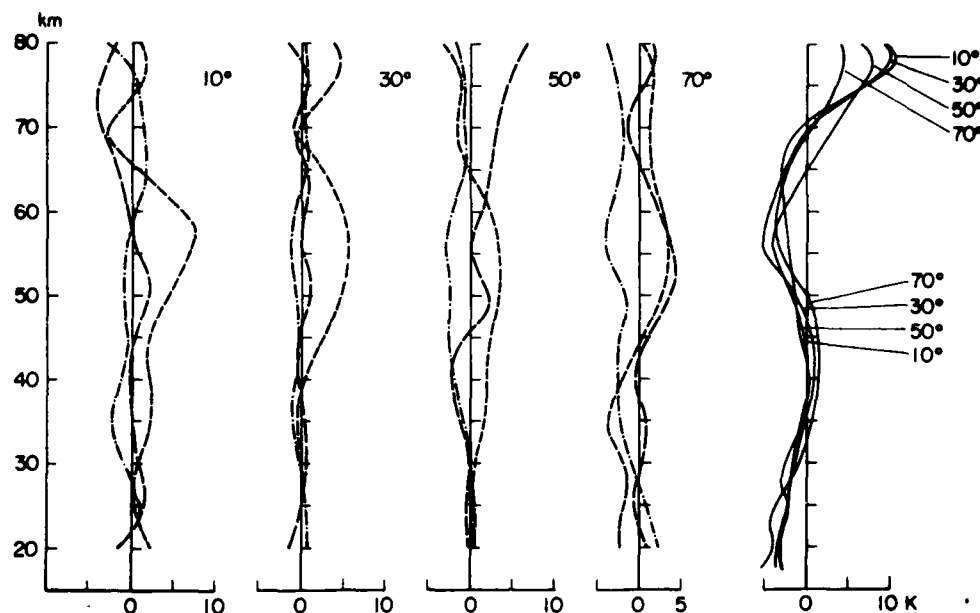


Figure 2. Comparisons of Rocket-Based and Satellite-Based Temperatures¹ With the New Reference Temperatures. Averaged monthly mean rocket minus reference temperatures are shown for the following rocket values: — — — Koshelkov;^{3,4} — — — Air Force Reference Atmospheres;⁵ ····· CIRA 1972.⁶ Averages are for 12 months at 10°, 30° latitude and for December to May in the S hemisphere or April to September in the N hemisphere at 50°, 70° latitude. Key: ————— monthly mean satellite temperatures¹ minus reference temperatures averaged over 12 months

4. COMPARISONS OF LOWER-BOUNDARY PRESSURES

Comparisons of actual lower-boundary pressures adopted for the two N hemisphere rocket reference atmospheres with those adopted for the satellite tables are not possible as the Air Force Reference Atmospheres adopted sea-level pressures, CIRA 1972 adopted 30-km pressures and the satellite tables were tied to 30 mb mean geopotential heights by averaging (for each month) the monthly means from January 1973 to December 1974 and from July 1975 to June 1978, these being the periods of measurement of Nimbus 5 SCR and Nimbus 6 PMR respectively. Comparisons have therefore been made at selected heights of relative pressure differences as these are not sensitive to the particular heights chosen. Figure 3 shows the percentage relative deviation of Air Force Reference Atmospheres pressure at 20 km and that of CIRA 1972 at 30 km from the satellite tables, averaged over a number of months according to the scheme described in Section 2. Air Force Reference Atmospheres pressure at 20 km is at most nearly 2 percent higher while CIRA 1972 pressure at

30 km is at most 3 percent lower than that of the satellite tables, and it is concluded that the N hemisphere lower-boundary pressures of the satellite tables are compatible with the earlier rocket values and should be adopted without adjustment.

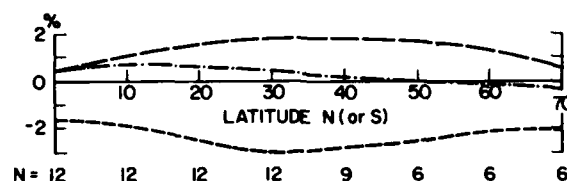


Figure 3. Comparisons of Lower-Boundary Pressures of Rocket-Based Tables With Those of Satellite-Based Tables¹ in Terms of the Average Monthly Mean Relative Pressure Difference for: —, —, Koshelkov Pressure at 20 km;⁴ — — — Air Force Reference Atmospheres Pressure at 20 km;⁵ - - - - CIRA 1972 Pressure at 30 km.⁶ Averages are taken over N different monthly means according to the scheme described in Section 2

In the S hemisphere both rocket and satellite tables are based on the 30 mb mean geopotential heights of radiosonde analyses, the rocket tables using data from 1957 to 1977 and the satellite tables from May 1968 to March 1973. Their relative pressure differences have been evaluated at 20 km and when averaged over a number of months according to the scheme introduced in Section 2 are found to be rather less than 1 percent for all latitudes (Figure 3).

The 30 mb mean geopotential heights of the satellite tables have therefore been adopted in both hemispheres and for each month their lower-boundary pressures are represented by a polynomial of degree 8 in sine of latitude, so making a total of 90 constants in terms of which latitudinal cross-sections of temperature and pressure may be formulated (Appendix B).

5. TABULATIONS OF ZONAL MEANS

Monthly means at each 10° latitude from 80° S to 80° N of the following zonal means are tabulated in Appendix A: temperature, pressure and density at 1-km intervals and number density, pressure scale height and geostrophic W-E wind at 2-km intervals from 18 to 80 km.

Pressure scale height H_{ref} is obtained from Eq. (B1) in Appendix B and T_{ref} is calculated from H_{ref} by Eq. (1). Pressure p_{ref} is calculated from Eq. (B2) in Appendix B which is based on integration of the hydrostatic equation using T_{ref} and the 30 mb geopotential heights of the satellite tables. Density ρ_{ref} is calculated from

$$\rho_{ref} = M p_{ref} / RT_{ref} \quad (3)$$

and number density N_{ref} from

$$N_{ref} = \rho_{ref} / A \quad (4)$$

where $A = 6.02257 \times 10^{26}$ mks units. The geostrophic W-E wind is calculated from Eq. (B3) in Appendix B at all the stated latitudes except 0° where it breaks down.

6. LONGITUDINAL DEPENDENCE OF TEMPERATURE

The satellite tables of temperature and geopotential height enable temperature $T_{sat}(\lambda)$ to be calculated at a given geometric height and longitude λ . Reference temperatures $T(\lambda)$ at longitude λ are obtained by introducing the same adjustment as for zonal mean values, that is, we take

$$T(\lambda) = T_{sat}(\lambda) + (T_{ref} - T_{sat}) \quad (5)$$

The longitudinal dependence of the adjustment is neglected on the assumption that it is a second-order effect, the longitudinal variation of temperature itself being a small first-order effect.

January mean temperatures at 60° N for $\lambda = 140^\circ$, 100° and 10° W are presented in Air Force Reference Atmospheres to 55 km altitude and are compared with $T(\lambda)$ calculated from Eq. (5) in Figure 4. In general, observed temperatures at 35 to 45 km have a range of roughly 85K in winter⁵ and hence monthly means are determined less accurately than at other times of the year. The curves in Figure 4 are considered to be in satisfactory agreement. The larger differences at 10° W may possibly be a consequence of a smaller sample of data at this longitude. On the other hand it should be noted that the satellite tables are based on measurements from at most five years and that below about 40 km only Nimbus 5 SCR data from 1973 and 1974 are represented.

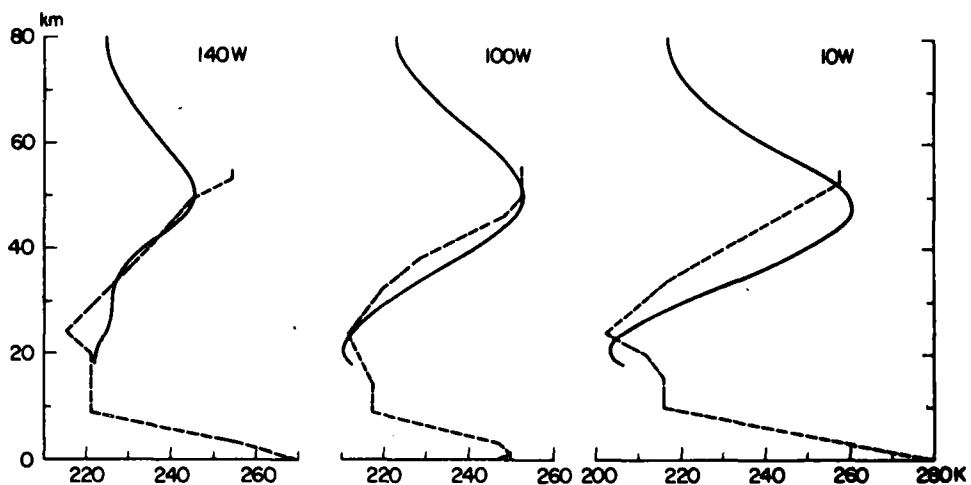


Figure 4. Comparisons of January Mean Temperature at Longitudes $\lambda = 140^\circ$, 100° and 10° W. Key: ----- Air Force Reference Atmospheres;⁵ ——— new reference temperatures at longitude λ [Eq. (5)]

The differences $T(\lambda) - T_{\text{ref}}$ have been calculated from Eq. (5) at 30° longitude steps and heights 18, 20, 24, ..., 80 km for the sequence of eight months in each hemisphere during which longitudinal variations are largest. These months are September to April in the N hemisphere and April to November in the S hemisphere. Tabulations are presented in Appendix A for 20° , 30° , ..., 80° latitude and 180° , 150° W, ..., 150° E longitude. In Appendix B, Eq. (B4) is presented which approximates these values, differing by not more than 1K in all but a few cases.

7. LONGITUDINAL DEPENDENCE OF PRESSURE AND DENSITY

For a given height, reference pressures $p(\lambda)$ are adopted at longitude according to the relation

$$p(\lambda)/p_{\text{ref}} = p_{\text{sat}}(\lambda)/p_{\text{sat}} \quad (6)$$

where $p_{\text{sat}}(\lambda)$ is pressure at longitude λ as determined by the satellite tables¹ and p_{sat} is the zonal mean pressure. Tabulations are presented in Appendix A of $100[p(\lambda)/p_{\text{ref}} - 1]$, calculated by Eq. (6). In the same way the percentage relative longitudinal deviations of density $100[\rho(\lambda)/\rho_{\text{ref}} - 1]$ are calculated and tabulated in Appendix A. Values of this quantity at $\lambda = 140^\circ$, 100° and 10° W are compared in Figure 5 corresponding to the cases in Figure 4. In Appendix B, Eqs. (B5) and (B6)

enable values of $p(\lambda)$ and $\rho(\lambda)$ to be computed which closely approximate those obtained from the tables of Appendix A, differing by at most 1 percent.

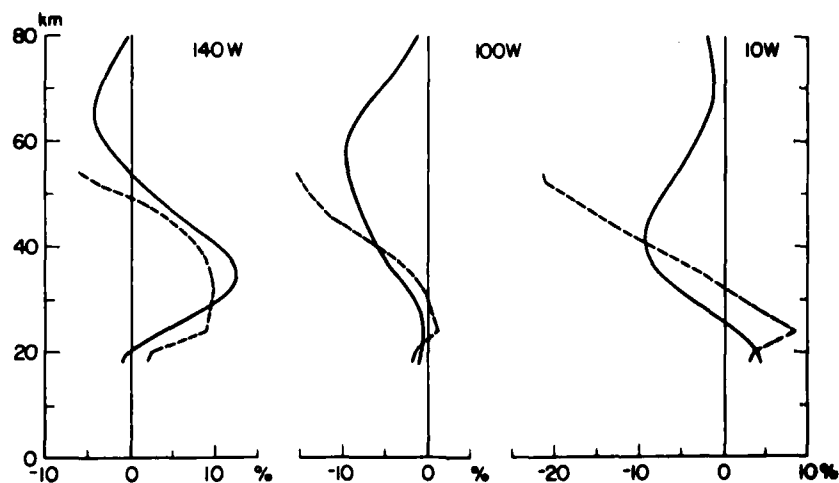


Figure 5. Comparisons of January Mean Relative Density Deviations From the Zonal Mean Reference Densities at Longitudes $\lambda = 140^\circ$, 100° and 10° W. Key: ---- Air Force Reference Atmospheres;⁵ ——— new reference densities at longitude λ

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Appendix A

Tables of Monthly Mean Atmospheric Properties 18 to 80 km and 80° S to 80° N

1. Zonal Mean Values

Temperature (K)
Pressure (mb)
Density (kg m^{-3})
Number density (m^{-3})
Pressure scale height (km)
Geostrophic W-E wind (m s^{-1})

2. Longitudinal variations

Temperature	- (zonal mean temperature) (K)
Pressure/(zonal mean pressure)	- 1 (%)
Density/(zonal mean density)	- 1 (%)

JANUARY

ZONAL MEAN TEMPERATURE (K)

KM LAT =	-80	-70	-60	-50	-40	-30	-20	-10	0	10	20	30	40	50	60	70	80 DEG
18	232.5	231.4	227.5	220.4	212.3	206.0	202.7	201.9	201.9	202.6	204.9	209.5	214.5	216.4	213.2	206.7	200.9
19	232.5	231.4	227.8	221.5	214.3	208.6	205.5	204.3	203.7	203.6	205.4	209.6	214.4	216.0	212.2	204.9	198.2
20	233.0	231.8	228.4	222.7	216.2	211.1	208.1	206.7	205.7	205.3	206.7	210.6	215.1	216.3	212.1	204.1	197.0
21	233.8	232.6	229.4	224.0	218.1	213.4	210.6	209.0	207.8	207.3	208.6	212.1	216.2	217.1	212.5	204.3	196.9
22	234.8	233.6	230.5	225.5	220.0	215.6	212.9	211.3	210.1	209.6	210.8	214.0	217.6	218.1	213.4	205.1	197.7
23	236.0	234.8	231.9	227.2	222.0	217.8	215.1	213.6	212.5	212.1	213.2	216.0	219.1	219.2	214.5	206.5	199.3
24	237.4	236.2	233.4	228.9	224.0	219.9	217.3	215.9	214.9	214.7	215.7	218.1	220.6	220.4	215.9	208.3	201.4
25	238.9	237.8	235.1	230.8	226.0	222.1	219.6	218.1	217.4	217.3	218.2	220.1	222.0	221.6	217.4	210.4	204.0
26	240.5	239.5	237.0	232.8	228.2	224.3	221.8	220.4	219.8	219.9	220.7	222.1	223.4	222.8	219.0	212.7	206.9
27	242.2	241.4	238.9	234.9	230.4	226.6	224.0	222.7	222.3	222.5	223.1	224.0	224.7	224.0	220.7	215.2	210.1
28	244.1	243.3	241.0	237.2	232.8	228.9	226.4	225.1	224.8	225.1	225.6	225.9	226.0	225.2	222.4	217.8	213.4
29	246.0	245.4	243.2	239.5	235.2	231.4	228.7	227.4	227.3	227.7	227.9	227.8	227.3	226.4	224.2	220.5	216.8
30	248.1	247.6	245.6	241.9	237.6	233.8	231.1	229.9	229.8	230.2	230.3	229.6	228.7	227.7	226.0	223.1	220.1
31	250.3	249.9	248.0	244.4	240.2	236.4	233.6	232.3	232.3	232.8	232.6	231.5	230.2	229.1	227.8	225.7	223.3
32	252.5	252.2	250.4	247.0	242.8	238.9	236.2	234.8	234.8	235.3	235.0	233.5	231.7	230.6	229.7	228.3	226.5
33	254.9	254.7	253.0	249.6	245.4	241.6	238.7	237.3	237.3	237.8	237.3	235.5	233.5	232.2	231.7	230.7	229.4
34	257.3	257.2	255.6	252.2	248.1	244.2	241.3	239.9	239.9	240.3	239.8	237.7	235.4	234.0	233.6	233.1	232.2
35	259.8	259.8	258.2	254.8	250.7	246.9	244.0	242.5	242.4	242.9	242.2	240.0	237.4	235.9	235.6	235.4	234.7
36	262.4	262.4	260.8	257.5	253.4	249.6	246.6	245.0	244.9	245.4	244.7	242.4	239.6	238.0	237.7	237.5	237.0
37	265.0	265.0	263.4	260.0	256.0	252.2	249.2	247.6	247.5	247.9	247.3	244.9	241.9	240.1	239.7	239.5	239.1
38	267.6	267.5	265.9	262.6	258.5	254.8	251.8	250.1	250.0	250.4	249.9	247.4	244.4	242.3	241.7	241.4	241.0
39	270.2	270.1	268.3	265.0	261.0	257.2	254.3	252.6	252.4	252.9	252.4	250.0	246.8	244.5	243.6	243.2	242.7
40	272.8	272.5	270.7	267.3	263.3	259.6	256.7	255.0	254.8	255.4	254.9	252.6	249.3	246.7	245.5	244.9	244.3
41	275.2	274.9	272.9	269.4	265.5	261.8	258.9	257.3	257.1	257.7	257.4	255.1	251.7	248.9	247.3	246.4	245.7
42	277.6	277.0	274.9	271.4	267.4	263.9	261.1	259.4	259.3	259.9	259.7	257.5	254.0	250.8	248.9	247.8	247.0
43	279.8	279.0	276.7	273.1	269.2	265.7	263.0	261.4	261.3	262.0	261.9	259.7	256.0	252.6	250.3	249.0	248.2
44	281.7	280.8	278.3	274.6	270.7	267.3	264.7	263.2	263.2	263.9	263.8	261.6	257.8	254.1	251.6	250.2	249.4
45	283.5	282.4	279.7	275.9	272.0	268.7	266.2	264.9	264.8	265.6	265.5	263.2	259.3	255.3	252.6	251.2	250.5
46	285.0	283.6	280.7	276.8	272.9	269.8	267.5	266.2	266.3	267.0	266.9	264.5	260.3	256.2	253.4	252.0	251.5
47	286.2	284.6	281.5	277.4	273.5	270.5	268.4	267.3	267.5	268.2	267.9	265.3	260.9	256.6	253.9	252.7	252.5
48	287.0	285.3	281.9	277.7	273.8	270.9	269.1	268.2	268.4	269.0	268.5	265.6	261.0	256.7	254.1	253.3	253.4
49	287.6	285.6	282.0	277.6	273.7	271.0	269.4	268.7	269.0	269.5	268.8	265.5	260.7	256.3	253.9	253.6	254.3
50	287.7	285.5	281.7	277.2	273.2	270.7	269.3	268.9	269.3	269.7	268.6	265.0	259.8	255.5	253.5	253.8	255.0
51	287.5	285.2	281.1	276.4	272.4	270.0	268.9	268.8	269.3	269.5	268.0	263.9	258.6	254.3	252.8	253.8	255.6
52	287.0	284.4	280.1	275.2	271.2	269.0	268.2	268.4	269.0	269.0	267.0	262.5	256.9	252.8	251.9	253.6	256.1
53	286.1	283.3	278.8	273.7	269.7	267.6	267.1	267.6	268.3	268.1	265.6	260.6	254.9	251.0	250.7	253.2	256.4
54	284.8	281.9	277.2	271.8	267.7	265.8	265.7	266.5	267.2	266.8	263.9	258.5	252.6	249.0	249.2	252.6	256.5
55	283.1	280.2	275.2	269.7	265.5	263.7	263.9	265.0	265.9	265.2	261.9	256.0	250.1	246.8	247.6	251.7	256.3
56	281.2	278.1	272.9	267.2	262.9	261.3	261.8	263.2	264.2	263.3	259.6	253.4	247.4	244.4	245.9	250.7	255.9
57	278.9	275.7	270.4	264.4	260.1	258.6	259.4	261.2	262.2	261.2	257.0	250.7	244.7	242.0	244.0	249.4	255.2
58	276.3	273.1	267.6	261.4	257.0	255.6	256.7	258.8	260.0	258.7	254.3	247.8	242.0	239.7	242.1	248.0	254.1
59	273.5	270.1	264.5	258.2	253.7	252.4	253.8	256.2	257.4	256.1	251.5	245.0	239.3	237.4	240.2	246.4	252.8
60	270.3	267.0	261.2	254.8	250.2	249.1	250.7	253.3	254.6	253.2	248.6	242.1	236.8	235.1	238.2	244.7	251.1
61	267.0	263.6	257.7	251.1	246.6	245.6	247.4	250.2	251.6	250.1	245.6	239.4	234.4	233.1	236.3	242.8	249.2
62	263.3	259.9	254.0	247.4	242.9	241.9	244.0	246.9	248.4	246.9	242.5	236.8	232.2	231.2	234.5	240.9	247.0
63	259.5	256.1	250.2	243.5	239.0	238.3	240.5	243.5	245.0	243.6	239.5	234.2	230.2	229.5	232.8	238.9	244.7
64	255.4	252.1	246.2	239.6	235.2	234.5	236.9	240.0	241.4	240.2	236.5	231.8	228.3	227.9	231.2	236.9	242.2
65	251.1	247.9	242.0	235.6	231.3	230.8	233.3	236.3	237.7	236.7	233.5	229.5	226.7	226.4	229.7	234.9	239.6
66	246.6	243.4	237.8	231.5	227.5	227.2	229.7	232.6	234.0	233.1	230.5	227.4	225.2	225.4	228.4	232.9	237.0
67	241.9	238.9	233.4	227.4	223.7	223.6	226.1	228.9	230.1	229.5	227.6	225.3	223.9	224.4	227.1	231.1	234.4
68	236.9	234.1	228.9	223.3	220.0	220.1	222.6	225.2	226.3	225.9	224.6	223.3	222.6	223.5	226.0	229.3	232.0
69	231.8	229.1	224.4	219.2	216.4	216.8	219.2	221.5	222.4	222.2	221.7	221.3	221.4	222.7	225.0	227.7	229.8
70	226.5	224.0	219.7	215.2	212.9	213.4	216.0	217.9	218.6	218.6	218.8	219.2	220.2	221.9	224.2	226.3	227.8
71	221.0	218.8	215.0	211.1	209.5	210.6	212.9	214.4	214.8	215.0	215.8	217.2	218.9	221.1	223.4	225.1	226.0
72	215.3	213.4	210.2	207.1	206.3	207.8	210.0	211.1	211.2	211.6	213.0	215.1	217.4	220.2	222.6	224.2	224.7
73	209.5	207.9	205.3	203.2	203.2	205.2	207.4	208.0	207.8	208.2	210.1	213.0	216.1	219.2	221.9	223.4	223.6
74	203.6	202.3	200.4	199.2	200.2	202.8	204.9	205.2	204.6	205.1	207.4	210.8	214.5	218.2	221.3	222.9	222.9
75	197.7	196.7	195.4	195.4	197.4	200.7	202.8	202.6	201.7	202.3	204.8	208.6	212.8	217.1	220.7	222.5	222.5
76	191.7	191.0	190.5	191.5	194.7	198.7	200.9	200.5	199.3	199.8	202.5	206.5	211.1	216.0	220.2	222.3	222.4
77	185.8	185.3	185.6	187.8	192.2	197.0	199.4	198.8	197.4	197.8	200.5	204.7	209.6	215.0	219.7	222.2	222.2
78	180.0	179.7	180.7	184.0	189.7	195.5	198.2	197.6	196.1	196.5	199.1	203.3	208.4	214.3	219.4	222.0	222.0
79	174.4	174.3	175.8	180.3	187.3	194.1	197.4	197.0	195.7	196.0	198.5	202.6	207.9	214.0	219.3	221.7	221.3
80	169.1	168.9	171.0	176.7	185.0	192.9	197.0	197.2	196.3	196.7	199.0	202.9	208.4	214.7	219.6	221.1	219.7

FEBRUARY

ZONAL MEAN TEMPERATURE (K)

KN LAT =	-80	-70	-60	-50	-40	-30	-20	-10	0	10	20	30	40	50	60	70	80 DEG
18	229.7	228.2	224.9	219.5	213.1	207.3	203.4	201.3	200.6	201.1	203.7	208.6	214.2	217.9	217.4	213.8	210.0
19	229.4	227.9	224.7	219.9	214.2	209.0	205.2	202.9	201.6	201.7	203.8	208.4	214.1	217.7	216.7	212.0	206.9
20	229.4	228.0	225.1	220.7	215.5	210.9	207.3	204.9	203.4	203.2	205.0	209.2	214.6	217.9	216.6	211.4	205.8
21	229.8	228.5	225.8	221.7	217.0	212.8	209.6	207.3	205.7	205.4	206.9	210.7	215.4	218.2	216.7	211.6	206.1
22	230.3	229.3	226.8	223.0	218.7	214.9	212.0	209.8	208.4	208.0	209.3	212.5	216.3	218.6	217.1	212.4	207.3
23	231.1	230.3	228.0	224.4	220.4	217.0	214.4	212.4	211.1	210.9	212.0	214.5	217.4	219.1	217.7	213.5	209.0
24	232.0	231.5	229.4	225.9	222.2	219.2	216.9	215.1	214.0	213.9	214.9	216.7	218.6	219.6	218.4	215.0	211.2
25	233.1	232.9	231.0	227.6	224.2	221.5	219.4	217.8	216.8	216.9	217.8	218.9	219.8	220.1	219.2	216.5	213.5
26	234.4	234.4	232.6	229.4	226.2	223.8	221.9	220.4	219.7	220.0	220.7	221.1	221.0	220.8	220.0	218.1	215.9
27	235.9	236.0	234.4	231.3	228.3	226.1	224.5	223.1	222.5	223.0	223.6	223.3	222.3	221.5	220.9	219.7	218.2
28	237.5	237.8	236.3	233.3	230.4	228.5	227.0	225.7	225.3	225.9	226.4	225.5	223.7	222.4	221.9	221.3	220.3
29	239.2	239.7	238.3	235.4	232.7	230.9	229.6	228.3	228.0	228.7	229.1	227.7	225.2	223.4	222.9	222.7	222.2
30	241.1	241.6	240.4	237.6	235.0	233.4	232.1	231.0	230.7	231.6	231.8	229.9	226.8	224.6	224.1	224.1	223.9
31	243.1	243.7	242.5	239.9	237.5	236.0	234.8	233.6	233.5	234.3	234.5	232.2	228.6	226.0	225.3	225.5	225.4
32	245.2	245.9	244.8	242.2	239.9	238.6	237.4	236.3	236.2	237.1	237.1	234.6	230.6	227.6	226.7	226.7	226.6
33	247.5	248.1	247.1	244.7	242.5	241.2	240.1	239.1	239.0	239.9	239.8	237.0	232.7	229.4	228.2	228.0	227.8
34	249.8	250.4	249.5	247.2	245.1	243.8	242.8	241.8	241.9	242.7	242.4	239.5	235.0	231.4	229.8	229.2	228.8
35	252.2	252.8	251.9	249.8	247.7	246.5	245.5	244.7	244.8	245.6	245.2	242.1	237.5	233.6	231.5	230.5	229.7
36	254.6	255.2	254.4	252.4	250.4	249.1	248.1	247.5	247.7	248.4	247.9	244.8	240.1	235.9	233.3	231.7	230.7
37	257.1	257.6	256.8	255.0	253.0	251.7	250.8	250.4	250.7	251.3	250.6	247.5	242.8	238.3	235.2	233.1	231.6
38	259.6	259.9	259.3	257.5	255.6	254.2	253.4	253.2	253.7	254.2	253.4	250.3	245.6	240.8	237.1	234.5	232.7
39	262.0	262.3	261.7	260.0	258.1	256.6	255.9	256.0	256.7	257.1	256.1	253.0	248.4	243.4	239.1	235.9	233.9
40	264.4	264.5	264.0	262.5	260.5	258.9	258.4	258.7	259.6	259.9	258.8	255.7	251.1	245.9	241.1	237.5	235.2
41	266.6	266.7	266.2	264.8	262.7	261.1	260.6	261.3	262.3	262.6	261.4	258.3	253.7	248.3	243.1	239.1	236.7
42	268.7	268.7	268.3	266.9	264.8	263.1	262.7	263.7	264.9	265.2	263.8	260.7	256.1	250.5	245.1	240.8	238.4
43	270.7	270.6	270.1	268.7	266.6	264.8	264.6	265.9	267.3	267.5	266.0	262.9	258.3	252.6	246.9	242.6	240.3
44	272.5	272.3	271.7	270.4	268.1	266.3	266.2	267.7	269.4	269.6	267.9	264.7	260.1	254.3	248.6	244.5	242.4
45	274.0	273.7	273.1	271.7	269.4	267.5	267.5	269.3	271.2	271.3	269.5	266.2	261.5	255.8	250.1	246.3	244.7
46	275.3	274.9	274.2	272.7	270.3	268.4	268.5	270.5	272.6	272.7	270.7	267.2	262.5	256.8	251.5	248.1	247.1
47	276.4	275.8	274.9	273.3	270.8	268.9	269.1	271.4	273.5	273.6	271.5	267.8	263.0	257.4	252.5	249.9	249.5
48	277.1	276.4	275.3	273.5	271.0	269.1	269.4	271.8	274.0	274.1	271.8	268.0	263.0	257.6	252.4	251.7	252.1
49	277.6	276.7	275.3	273.3	270.7	269.0	269.4	271.8	274.0	274.1	271.7	267.6	262.6	257.4	253.9	253.2	254.6
50	277.8	276.6	275.0	272.7	270.1	268.4	269.0	271.4	273.6	273.6	271.1	266.8	261.6	256.8	254.2	254.7	257.0
51	277.6	276.3	274.3	271.7	269.1	267.6	268.2	270.5	272.6	272.6	270.0	265.4	260.2	255.8	254.1	255.9	259.4
52	277.2	275.6	273.2	270.3	267.7	266.4	267.1	269.3	271.3	271.2	268.5	263.7	258.4	254.4	253.8	256.9	261.4
53	276.5	274.6	271.8	268.5	265.9	264.8	265.7	267.8	269.5	269.3	266.5	261.6	256.2	252.8	253.1	257.5	263.2
54	275.4	273.3	270.0	266.4	263.8	263.0	264.0	265.9	267.4	267.1	264.2	259.2	253.8	250.8	252.3	257.9	264.6
55	274.1	271.7	267.9	264.0	261.4	260.8	262.0	263.7	265.0	264.5	261.6	256.5	251.2	248.0	251.1	257.9	265.4
56	272.5	269.7	265.5	261.3	258.7	258.5	259.7	261.3	262.3	261.7	258.8	253.7	248.5	246.6	249.8	257.6	264.1
57	270.6	267.6	262.9	258.4	255.9	255.9	257.3	258.7	259.4	258.7	255.8	250.8	245.8	244.3	248.3	257.0	264.1
58	268.4	265.1	260.1	255.2	252.8	253.1	254.7	256.0	256.3	255.5	252.6	247.8	243.1	242.0	246.7	256.0	265.5
59	266.0	262.5	257.0	251.9	249.6	250.2	252.0	253.1	253.2	252.2	249.4	244.8	240.4	239.8	244.9	254.6	264.3
60	263.4	259.6	253.8	248.5	246.2	247.1	249.1	250.1	249.9	248.8	246.2	241.9	237.9	237.7	243.2	253.0	262.7
61	260.4	256.5	250.5	245.0	242.8	244.0	246.1	247.1	246.7	245.5	243.0	239.0	235.5	235.6	241.3	251.1	260.5
62	257.3	253.2	247.0	241.5	239.4	240.8	243.1	244.0	243.4	242.2	239.9	236.3	233.2	233.8	239.5	249.0	258.0
63	253.8	249.7	243.4	237.9	236.0	237.6	240.0	240.9	240.1	238.9	236.9	233.8	231.2	232.0	237.7	246.7	255.0
64	250.2	246.0	239.8	234.3	232.6	234.3	236.9	237.7	236.9	235.6	233.9	231.4	229.4	230.5	236.0	244.3	251.9
65	246.3	242.2	236.0	230.8	229.2	231.1	233.7	234.5	233.7	232.5	231.1	229.1	227.7	229.1	234.3	241.9	248.5
66	242.1	238.1	232.2	227.3	225.9	227.9	230.6	231.3	230.4	229.3	228.3	227.0	226.2	227.8	232.7	239.4	245.1
67	237.7	233.9	228.4	223.8	222.6	224.7	227.4	228.1	227.2	226.3	225.7	225.0	224.8	226.6	231.2	237.0	241.7
68	233.1	229.6	224.5	220.3	219.4	221.6	224.2	224.8	224.0	223.3	223.2	223.1	223.5	225.5	229.7	234.7	238.4
69	228.3	225.1	220.6	216.9	216.4	218.6	221.0	221.5	220.7	220.3	220.7	221.2	222.1	224.5	228.4	232.5	235.3
70	223.3	220.5	216.6	213.5	213.4	215.6	217.8	218.1	217.4	217.4	218.2	219.4	220.8	223.4	227.1	230.5	232.4
71	218.2	215.8	212.5	210.2	210.5	212.7	214.6	214.7	214.1	214.5	215.8	217.5	219.4	222.3	225.9	228.7	229.8
72	213.0	211.1	208.5	206.9	207.7	210.0	211.5	211.4	210.9	211.6	213.4	215.5	217.9	221.1	224.7	227.0	227.6
73	207.7	206.2	204.4	203.7	205.0	207.3	208.5	208.0	207.6	208.7	211.0	213.5	216.2	219.8	223.6	225.6	225.6
74	202.5	201.4	200.3	200.5	202.4	204.8	205.6	204.8	204.5	206.0	208.7	211.4	214.5	218.4	222.5	224.4	224.1
75	197.4	196.6	196.2	197.3	199.9	202.4	202.9	201.8	201.5	203.3	206.4	209.3	212.6	217.0	221.4	223.4	222.8
76	192.4	191.9	192.2	194.2	197.6	200.3	200.5	199.1	198.9	201.0	204.2	207.2	210.6	215.5	220.4	222.6	221.7
77	187.7	187.4	188.2	191.1	195.3	198.3	198.4	196.9	196.7	198.9	202.2	205.2	208.8	214.1	219.5	221.8	220.8
78	183.4	183.1	184.4	188.2	193.2	196.7	196.8	195.3	195.2	197.5	200.6	203.5	207.2	212.9	218.7	221.1	219.8
79	179.6	179.2	180.8	185.3	191.3	195.4	195.9	194.7	194.7	196.8	199.6	202.3	206.2	212.2	218.1	222.2	218.6
80	176.4	175.7	177.4	182.7	189.5	194.5	195.9	195.4	195.6	197.3	199.4	201.9	204.0	212.3	217.8	219.1	216.9

MARCH

ZONAL MEAN TEMPERATURE (K)

KM LAT =	-80	-70	-60	-50	-40	-30	-20	-10	0	10	20	30	40	50	60	70	80 DEG
18	224.1	224.0	222.5	219.0	214.0	209.0	204.8	202.2	201.4	202.6	205.7	210.0	214.3	217.7	219.5	220.0	219.8
19	223.0	223.0	221.8	218.8	214.4	209.9	206.2	203.8	202.9	203.7	206.2	210.2	214.3	217.4	218.8	218.7	218.0
20	222.4	222.6	221.6	218.9	215.1	211.3	208.1	206.0	205.0	205.5	207.7	211.1	214.6	217.2	218.3	218.1	217.6
21	222.1	222.5	221.8	219.4	216.2	213.0	210.4	208.5	207.5	207.8	209.6	212.4	215.2	217.1	218.0	218.1	217.9
22	221.9	222.6	222.1	220.1	217.4	214.9	212.8	211.2	210.2	210.5	212.0	214.1	216.0	217.2	217.8	218.4	218.8
23	222.0	222.9	222.7	221.0	218.8	216.9	215.4	213.9	213.0	213.3	214.5	216.0	216.9	217.3	217.9	218.8	219.8
24	222.1	223.3	223.4	222.0	220.2	219.0	217.9	216.7	215.9	216.1	217.2	218.0	217.9	217.6	218.0	219.3	220.8
25	222.5	223.8	224.1	223.1	221.8	221.0	220.4	219.4	218.7	219.0	219.8	220.0	219.1	218.1	218.3	219.9	221.8
26	222.9	224.5	225.0	224.3	223.4	223.1	222.8	222.1	221.5	221.7	222.4	222.1	220.4	218.8	218.8	220.5	222.6
27	223.5	225.2	226.0	225.6	225.1	225.2	225.2	224.6	224.2	224.5	225.0	224.2	221.9	219.8	219.4	221.1	223.3
28	224.2	226.1	227.1	227.0	226.9	227.3	227.6	227.2	226.8	227.2	227.5	226.3	223.6	221.0	220.3	221.8	223.9
29	225.1	227.1	228.4	228.6	228.8	229.4	229.9	229.7	229.5	229.8	230.0	228.5	225.4	222.5	221.4	222.6	224.5
30	226.2	228.2	229.8	230.4	230.8	231.6	232.2	232.3	232.2	232.5	232.4	230.8	227.5	224.2	222.8	223.5	225.0
31	227.4	229.5	231.3	232.3	233.0	233.9	234.6	234.8	234.9	235.1	234.9	233.1	229.7	226.2	224.4	224.5	225.6
32	228.8	231.0	233.1	234.3	235.2	236.2	237.0	237.5	237.7	237.8	237.4	235.5	232.1	228.5	226.2	225.7	226.3
33	230.4	232.7	235.0	236.5	237.6	238.6	239.5	240.2	240.5	240.6	240.0	238.0	234.7	231.0	228.3	227.2	227.2
34	232.2	234.5	237.1	238.9	240.1	241.0	242.1	243.0	243.5	243.4	242.6	240.6	237.4	233.7	230.6	228.8	228.2
35	234.1	236.5	239.3	241.4	242.6	243.6	244.7	245.8	246.3	246.3	245.3	243.3	240.3	236.7	233.2	230.7	229.4
36	236.2	238.7	241.7	244.0	245.3	246.2	247.3	248.7	249.6	249.3	248.0	246.0	243.3	239.7	235.9	232.8	230.9
37	238.4	241.0	244.2	246.7	248.0	248.8	250.0	251.7	252.7	252.3	250.8	248.8	246.4	242.9	238.7	235.0	232.7
38	240.7	243.4	246.8	249.5	250.8	251.4	252.7	254.6	255.8	255.3	253.5	251.6	249.4	246.1	241.7	237.5	234.7
39	243.0	245.8	249.4	252.2	253.5	254.0	255.4	257.6	258.9	258.3	256.3	254.4	252.4	249.2	244.7	240.1	236.9
40	245.4	248.3	252.0	255.0	256.1	256.5	257.9	260.4	262.0	261.2	259.0	257.0	255.3	252.3	247.7	242.7	239.3
41	247.8	250.7	254.5	257.6	258.6	258.9	260.4	263.1	264.8	264.0	261.6	259.6	258.0	255.2	250.5	245.5	241.8
42	250.2	253.1	257.0	260.0	261.0	261.2	262.6	265.5	267.4	266.5	263.9	261.9	260.5	257.9	253.3	248.1	244.5
43	252.5	255.3	259.2	262.2	263.1	263.2	264.7	267.7	269.8	268.8	266.1	264.0	262.6	260.2	255.7	250.7	247.1
44	254.6	257.3	261.2	264.2	265.0	264.9	266.4	269.6	271.8	270.8	267.9	265.7	264.4	262.2	257.9	253.2	249.8
45	256.5	259.1	262.8	265.8	266.5	266.4	267.8	271.1	273.4	272.4	269.4	267.1	265.8	263.7	259.8	255.4	252.3
46	258.3	260.7	264.2	267.0	267.7	267.5	268.9	272.2	274.5	273.5	270.5	268.1	266.8	264.8	261.2	257.3	254.7
47	259.8	261.9	265.1	267.8	268.4	268.2	269.5	272.8	275.1	274.2	271.1	268.7	267.3	265.4	262.2	258.8	256.8
48	261.0	262.7	265.6	268.1	268.7	268.5	269.8	272.9	275.2	274.3	271.3	268.7	267.3	265.4	262.7	260.0	258.5
49	261.9	263.2	265.7	267.9	268.5	268.3	269.6	272.6	274.8	273.9	271.0	268.4	266.8	265.0	262.7	260.7	259.9
50	262.4	263.3	265.3	267.3	267.9	267.8	269.0	271.8	273.9	273.0	270.2	267.6	265.9	264.2	262.2	260.9	260.8
51	262.6	263.0	264.5	266.2	266.9	266.9	268.0	270.5	272.4	271.7	268.9	266.3	264.5	262.8	261.3	260.7	261.2
52	262.5	262.4	263.3	264.7	265.4	265.5	266.6	268.9	270.6	269.8	267.3	264.7	262.8	261.2	260.0	260.0	261.0
53	262.1	261.4	261.7	262.8	263.5	263.9	264.9	266.9	268.3	267.6	265.3	262.8	260.7	259.1	258.3	258.9	260.4
54	261.3	260.1	259.8	260.5	261.3	261.9	263.0	264.6	265.7	265.1	262.9	260.5	258.4	256.9	256.3	257.4	259.3
55	260.3	258.5	257.6	257.9	258.8	259.7	260.8	262.1	262.9	262.2	260.4	258.1	255.9	254.4	254.1	255.5	257.7
56	258.9	256.7	255.1	255.0	256.0	257.2	258.4	259.4	259.8	259.2	257.6	255.5	253.3	251.8	251.7	253.4	255.7
57	257.3	254.6	252.4	252.0	253.0	254.6	255.9	256.6	256.6	256.0	254.7	252.8	250.6	249.1	249.2	251.0	253.4
58	255.5	252.4	249.7	248.8	249.9	251.9	253.3	253.7	253.4	252.8	251.7	250.0	247.9	246.5	246.7	248.6	250.9
59	253.5	250.1	246.8	245.6	246.7	249.0	250.6	250.8	250.1	249.5	248.7	247.3	245.2	243.9	244.2	246.0	248.1
60	251.3	247.6	243.9	242.3	243.5	246.2	248.0	247.8	246.9	246.2	245.8	244.5	242.6	241.3	241.7	243.4	245.2
61	248.9	245.1	241.0	239.0	240.2	243.3	245.3	244.9	243.7	243.1	242.9	241.9	240.1	238.9	239.4	240.9	242.3
62	246.3	242.6	238.2	235.8	237.0	240.4	242.6	242.1	240.5	239.9	240.1	239.4	237.7	236.7	237.1	238.4	239.4
63	243.9	240.0	235.3	232.7	233.9	237.5	239.9	239.2	237.4	236.9	237.3	236.9	235.5	234.6	235.1	236.1	236.6
64	241.2	237.5	232.6	229.6	230.8	234.7	237.2	236.4	234.4	234.0	234.7	234.6	233.4	232.6	233.1	233.9	233.9
65	238.4	234.9	229.9	226.7	227.8	231.8	234.5	233.6	231.5	231.1	232.2	232.4	231.3	230.8	231.4	231.8	231.3
66	235.6	232.3	227.4	223.9	224.9	229.1	231.8	230.8	228.6	228.3	229.7	230.2	229.5	229.1	229.8	229.9	229.0
67	232.7	229.7	224.8	221.3	222.1	226.3	229.0	227.9	225.7	225.6	227.3	228.1	227.6	227.6	228.3	228.2	226.7
68	229.7	227.1	222.4	218.8	219.5	223.5	226.2	225.0	222.7	222.9	224.9	226.0	225.9	226.1	226.9	226.6	224.7
69	226.6	224.4	220.0	216.4	216.9	220.7	223.2	222.0	219.8	220.2	222.4	223.9	224.1	224.6	225.6	225.1	222.8
70	223.5	221.7	217.6	214.1	214.4	217.9	220.1	218.8	216.8	217.4	220.0	221.8	222.3	223.2	224.3	223.7	221.1
71	220.4	219.0	215.2	211.9	212.1	215.1	216.9	215.6	213.8	214.7	217.5	219.6	220.5	221.7	223.1	222.3	219.4
72	217.3	216.2	212.9	209.8	209.8	212.3	213.7	212.2	210.7	211.9	214.9	217.3	218.5	220.2	221.7	220.9	217.9
73	214.2	213.4	210.5	207.7	207.5	209.5	210.3	208.9	207.7	209.1	212.3	214.9	216.5	218.5	220.3	219.5	216.4
74	211.1	210.5	208.2	205.8	205.4	206.7	207.0	205.6	204.7	206.4	209.7	212.4	214.3	216.7	218.8	218.0	214.9
75	208.2	207.8	205.9	203.9	203.4	204.1	203.8	202.4	201.9	203.9	207.1	209.8	212.0	214.8	217.1	216.5	213.5
76	205.5	205.2	203.8	202.1	201.5	201.6	200.9	199.6	199.4	201.6	204.7	207.3	209.7	212.9	215.4	215.0	212.0
77	203.1	202.9	201.7	200.4	199.8	199.4	198.5	197.3	197.5	199.7	202.6	204.9	207.4	210.8	213.7	213.4	210.6
78	201.2	200.9	200.0	198.9	198.3	197.8	196.7	195.8	196.4	198.6	201.0	202.9	205.2	208.9	212.1	212.0	209.3
79	200.0	199.6	198.7	197.7	197.2	196.8	196.0	195.6	196.5	198.5	200.2	201.3	203.3	207.1	210.6	210.8	208.1
80	199.6	199.1	198.0	196.9	196.6	196.8	196.8	197.1	198.3	199.9	200.6	200.6	202.0	205.8	209.6	210.0	207.3

APRIL

ZONAL MEAN TEMPERATURE (K)

KM LAT =	-80	-70	-60	-50	-40	-30	-20	-10	0	10	20	30	40	50	60	70	80 DEG
18	213.3	217.4	219.9	218.6	214.7	210.2	206.3	203.4	202.0	202.9	205.9	210.0	214.4	218.5	222.0	224.5	225..
19	210.6	215.7	219.1	218.5	214.9	210.7	207.3	204.8	203.7	204.6	207.4	211.1	214.9	218.3	221.3	223.4	224.6
20	208.6	214.2	218.4	218.4	215.5	212.0	209.1	206.9	205.9	206.9	209.4	212.6	215.5	218.2	220.8	222.8	224.0
21	207.2	213.1	217.7	218.4	216.3	213.7	211.3	209.3	208.5	209.4	211.8	214.3	216.3	218.3	220.5	222.6	223.9
22	206.2	212.1	217.0	218.4	217.3	215.6	213.7	212.0	211.2	212.2	214.3	216.1	217.2	218.5	220.4	222.5	223.9
23	205.6	211.3	216.4	218.4	218.3	217.5	216.3	214.8	214.0	215.0	216.8	218.0	218.3	218.9	220.5	222.5	223.9
24	205.3	210.8	215.8	218.5	219.4	219.5	218.9	217.6	216.9	217.8	219.3	220.0	219.5	219.5	220.8	222.6	223.9
25	205.4	210.4	215.4	218.6	220.4	221.4	221.4	220.4	219.8	220.6	221.8	221.9	222.9	222.4	222.3	222.8	223.9
26	205.7	210.3	215.1	218.8	221.4	223.3	223.8	223.1	222.6	223.3	224.2	223.9	222.5	221.6	222.0	223.1	224.0
27	206.3	210.4	215.0	219.1	222.5	225.0	226.1	225.8	225.5	226.5	225.9	224.3	223.0	222.9	223.6	224.1	
28	207.2	210.8	215.2	219.6	223.7	226.8	228.3	228.4	228.3	228.6	228.8	227.9	226.2	224.7	224.2	224.2	224.3
29	208.3	211.4	215.6	220.4	224.9	228.4	230.4	231.0	231.0	231.2	231.0	230.0	228.4	226.7	225.6	225.0	224.6
30	209.7	212.3	216.4	221.3	226.2	230.1	232.5	233.5	233.8	233.7	233.3	232.2	230.7	229.0	227.4	226.1	225.2
31	211.3	213.5	217.4	222.5	227.7	231.9	234.6	236.1	236.6	236.4	235.6	234.5	233.2	231.5	229.4	227.4	226.0
32	213.1	214.9	218.7	224.0	229.4	233.7	236.7	238.7	239.4	239.0	237.9	236.9	236.0	234.3	231.7	229.0	227.1
33	215.2	216.7	220.3	225.7	231.2	235.6	238.9	241.3	242.3	241.7	240.3	239.5	238.8	237.2	234.2	230.9	228.5
34	217.5	218.7	222.2	227.7	233.3	237.7	241.1	243.9	245.2	244.4	242.9	242.1	241.8	240.3	237.0	233.0	230.2
35	219.9	220.9	224.3	229.9	235.5	239.8	243.4	246.6	248.0	247.2	245.5	244.8	244.9	243.6	239.9	235.5	232.2
36	222.6	223.4	226.7	232.3	237.9	242.1	245.8	249.3	250.9	250.0	248.1	247.6	248.1	246.9	243.0	238.1	234.6
37	225.4	226.0	229.4	234.9	240.4	244.6	248.3	252.0	253.8	252.8	250.8	250.5	251.3	250.3	246.3	241.0	237.2
38	228.3	228.8	232.1	237.7	243.0	247.1	250.9	254.7	256.7	255.6	253.6	253.3	254.4	253.6	249.5	244.1	240.1
39	231.3	231.8	235.0	240.5	245.8	249.7	253.4	257.4	259.4	258.3	256.3	256.1	257.4	256.9	252.8	247.3	243.2
40	234.4	234.8	237.9	243.4	248.5	252.3	256.0	259.9	262.1	261.0	258.9	258.8	260.3	260.0	256.0	250.5	246.4
41	237.4	237.8	240.9	246.2	251.2	254.8	258.4	262.4	264.6	263.5	261.4	261.4	263.0	262.9	259.1	253.7	249.7
42	240.5	240.8	243.8	248.9	253.8	257.3	260.8	264.7	266.8	265.7	263.7	263.7	265.4	265.5	262.0	256.8	252.9
43	243.5	243.6	246.5	251.5	256.3	259.6	263.0	266.7	268.8	267.7	265.7	265.8	267.5	267.8	264.6	259.7	256.1
44	246.4	246.4	249.0	253.9	258.5	261.7	264.9	268.5	270.4	269.4	267.5	267.5	269.3	269.7	266.8	262.4	259.0
45	249.1	248.9	251.3	255.9	260.4	263.5	266.5	269.9	271.7	270.7	268.8	268.9	270.6	271.1	268.6	264.7	261.6
46	251.6	251.1	253.2	257.6	262.0	265.0	267.8	270.9	272.6	271.6	269.8	269.8	271.5	272.1	270.0	266.5	263.9
47	253.9	253.1	254.8	258.9	263.1	266.1	268.7	271.5	273.0	272.1	270.3	270.4	272.0	272.7	270.9	267.9	265.7
48	255.9	254.7	255.9	259.8	263.9	266.8	269.2	271.7	273.0	272.0	270.4	270.4	272.0	272.8	271.3	268.8	267.0
49	257.6	255.9	256.7	260.1	264.1	267.0	269.2	271.4	272.5	271.5	270.0	270.1	271.6	272.4	271.2	269.2	267.7
50	258.9	256.8	257.0	260.1	263.9	266.7	268.8	270.7	271.5	270.6	269.2	269.3	270.7	271.5	270.6	269.0	267.8
51	259.9	257.2	256.8	259.5	263.2	266.0	267.9	269.5	270.1	269.2	267.9	268.1	269.4	270.3	269.6	268.3	267.4
52	260.5	257.3	256.3	258.6	262.1	264.8	266.6	267.9	268.3	267.4	266.3	266.5	267.8	268.6	268.1	267.1	266.5
53	260.8	257.0	255.4	257.2	260.5	263.3	265.0	266.0	266.1	265.2	264.3	264.6	265.9	266.7	266.3	265.5	265.1
54	260.7	256.4	254.2	255.5	258.6	261.4	262.9	263.6	263.5	262.7	262.0	262.5	263.7	264.4	264.1	263.5	263.2
55	260.2	255.5	252.7	253.5	256.4	259.1	260.6	261.0	260.7	260.0	259.5	260.1	261.3	261.9	261.7	261.2	261.0
56	259.4	254.3	250.9	251.3	254.0	256.7	258.0	258.2	257.7	257.0	256.9	257.6	258.7	259.3	259.1	258.7	258.6
57	258.4	252.9	249.0	248.8	251.3	254.0	255.3	255.2	254.4	253.9	254.1	255.0	256.0	256.5	256.4	256.0	255.9
58	257.0	251.4	247.0	246.3	248.5	251.2	252.4	252.0	251.1	250.7	251.3	252.3	253.3	253.7	253.6	253.3	253.2
59	255.5	249.7	245.0	243.8	245.7	248.3	249.4	248.7	247.7	247.5	248.4	249.7	250.5	250.8	250.8	250.6	250.4
60	253.7	248.0	242.9	241.2	242.8	245.4	246.4	245.4	244.2	244.3	245.6	247.0	247.7	247.9	248.0	247.9	247.7
61	251.8	246.2	240.9	238.6	239.9	242.5	243.4	242.1	240.7	241.0	242.8	244.4	245.0	245.1	245.3	245.3	245.0
62	249.8	244.4	238.9	236.2	237.1	239.6	240.4	238.8	237.3	237.9	240.1	241.8	242.2	242.3	242.6	242.8	242.5
63	247.7	242.7	237.0	233.8	234.4	236.8	237.4	235.6	233.9	234.8	237.4	239.3	239.6	239.6	240.1	240.4	240.0
64	245.6	240.9	235.1	231.5	231.8	234.0	234.5	232.3	230.5	231.7	234.8	236.8	237.0	236.9	237.7	238.2	237.7
65	243.5	239.2	233.4	229.3	229.2	231.3	231.6	229.2	227.3	228.7	232.2	234.3	234.4	234.4	235.3	236.0	235.6
66	241.3	235.5	231.7	227.3	226.8	228.7	228.8	226.1	224.1	225.8	229.6	231.9	231.8	231.8	233.1	234.0	233.5
67	239.2	235.9	230.1	225.3	224.4	226.1	226.0	223.0	221.0	222.9	227.1	229.5	229.3	229.4	230.8	232.0	231.5
68	237.1	234.2	228.6	223.5	222.2	223.5	223.2	220.0	218.0	220.1	224.5	227.0	226.8	227.0	228.7	230.0	229.5
69	235.1	232.6	227.1	221.7	219.9	220.9	220.3	217.1	215.1	217.3	221.8	224.4	224.3	224.6	226.5	227.9	227.4
70	233.2	231.0	225.6	219.9	217.8	218.3	217.5	214.2	212.2	214.5	219.1	221.7	221.7	222.2	224.2	225.7	225.2
71	231.4	229.4	224.1	218.2	215.6	215.7	214.6	211.4	209.5	211.8	216.3	218.9	219.1	219.7	221.9	223.4	222.9
72	229.7	227.8	222.5	216.5	213.5	213.1	211.8	208.6	206.9	209.1	213.4	216.0	216.4	217.2	219.5	220.9	220.3
73	228.1	226.2	221.0	214.9	211.4	210.4	208.9	206.0	204.5	206.5	210.4	212.9	213.6	214.7	216.9	218.1	217.4
74	226.7	224.6	219.4	213.2	209.3	207.8	206.1	203.5	202.3	204.1	207.5	209.9	210.8	212.1	214.2	215.1	214.3
75	225.5	223.2	217.9	211.6	207.3	205.3	203.5	201.3	200.3	201.9	204.7	206.8	207.9	209.4	211.3	211.9	211.0
76	224.5	221.8	216.4	210.1	205.5	202.9	201.2	199.5	198.9	200.0	202.2	203.9	205.1	206.7	208.3	208.5	207.4
77	223.9	220.8	215.2	208.9	203.9	200.9	199.3	198.2	197.9	198.7	200.0	201.2	202.3	203.9	205.2	205.1	203.9
78	223.6	220.1	214.4	208.0	202.7	199.5	198.0	197.6	197.8	198.2	199.6	199.0	199.8	201.1	202.1	201.8	200.5
79	223.8	220.1	214.2	207.6	202.1	198.9	197.8	198.1	198.7	198.9	198.3	197.5	197.5	198.4	199.2	198.7	197.4
80	224.6	221.1	215.0	208.1	202.5	199.5	199.0	200.0	201.2	201.1	199.5	197.2	195.7	193.8	196.5	196.3	195.1

MAY

ZONAL MEAN TEMPERATURE (K)

KM LAT =	-80	-70	-60	-50	-40	-30	-20	-10	0	10	20	30	40	50	60	70	80 DEG
18	199.9	206.9	214.2	217.6	215.8	211.0	206.5	203.8	202.9	203.4	205.5	209.4	214.4	219.4	223.2	225.8	227.3
19	194.8	203.4	212.6	217.2	216.0	211.7	207.7	205.5	204.9	205.6	207.7	211.3	215.6	219.6	222.7	224.9	226.3
20	191.6	200.9	211.0	216.8	216.4	212.9	209.5	207.6	207.2	208.1	210.1	213.3	216.9	220.0	222.4	224.4	225.8
21	189.9	199.1	209.6	216.2	217.0	214.4	211.6	210.0	209.8	210.7	212.7	215.4	218.2	220.5	222.4	224.2	225.7
22	189.2	197.9	208.2	215.5	217.7	216.2	213.9	212.6	212.5	213.5	215.3	217.5	219.5	221.2	222.7	224.3	225.9
23	189.4	197.2	207.0	214.8	218.2	217.9	216.3	215.2	215.3	216.3	217.8	219.5	220.9	222.0	223.2	224.7	226.3
24	190.2	197.1	206.1	214.1	218.7	219.6	218.7	217.9	218.1	219.0	220.3	221.5	222.4	223.1	224.0	225.4	227.0
25	191.7	197.3	205.4	213.5	219.1	221.2	221.1	220.6	220.9	221.7	222.7	223.5	223.9	224.3	225.0	226.3	227.8
26	193.5	197.9	204.9	213.0	219.5	222.8	223.5	223.4	223.6	224.3	225.0	225.4	225.6	225.7	226.3	227.4	228.8
27	195.7	198.9	204.8	212.7	219.9	224.2	225.7	226.0	226.4	226.8	227.2	227.3	227.3	227.4	227.8	228.8	230.0
28	198.2	200.2	205.1	212.6	220.3	225.6	228.0	228.7	229.1	229.3	229.4	229.3	229.2	229.3	229.6	230.4	231.4
29	200.9	201.8	205.6	212.7	220.9	227.0	230.1	231.3	231.7	231.8	231.5	231.3	231.2	231.3	231.6	232.2	233.0
30	203.8	203.6	206.5	213.2	221.6	228.4	232.3	233.9	234.3	234.2	233.7	233.4	233.4	233.6	233.9	234.2	234.8
31	206.9	205.8	207.8	214.0	222.5	229.9	234.4	236.4	236.9	236.5	235.9	235.6	235.8	236.1	236.3	236.5	236.8
32	210.0	208.1	209.3	215.1	223.6	231.5	236.6	238.9	239.5	238.9	238.1	237.9	238.3	238.8	239.0	239.8	238.9
33	213.3	210.7	211.2	216.5	225.0	233.2	238.7	241.4	242.0	241.3	240.5	240.3	241.0	241.7	241.9	241.6	241.3
34	216.6	213.5	213.4	218.2	226.6	235.0	241.0	243.9	244.5	243.8	242.9	242.8	243.8	244.7	244.9	244.4	243.9
35	220.0	216.4	215.8	220.2	228.4	237.0	243.2	246.4	247.0	246.2	245.3	245.5	246.7	247.8	248.0	247.3	246.6
36	223.4	219.5	218.5	222.5	230.5	239.1	245.5	248.8	249.4	248.6	247.8	248.2	249.7	251.0	251.2	250.4	249.4
37	226.8	222.8	221.4	225.1	232.8	241.3	247.9	251.2	251.9	251.0	250.4	251.0	252.7	254.2	254.4	253.5	252.4
38	230.2	226.1	224.5	227.8	235.2	243.7	250.2	253.6	254.2	253.4	253.0	253.8	255.7	257.3	257.6	256.7	255.4
39	233.6	229.4	227.7	230.7	237.8	246.1	252.6	255.9	256.5	255.8	255.5	256.6	258.7	260.4	260.8	259.8	258.5
40	236.9	232.8	230.9	233.7	240.5	248.5	254.9	258.1	258.6	258.0	258.0	259.3	261.5	263.4	263.8	262.9	261.6
41	240.1	236.1	234.2	236.7	243.2	251.0	257.1	260.2	260.7	260.2	260.3	261.8	264.2	266.2	266.7	265.8	264.5
42	243.2	239.4	237.5	239.7	245.8	253.3	259.3	262.1	262.5	262.2	262.5	264.2	266.7	268.7	269.4	268.6	267.4
43	246.1	242.6	240.7	242.6	248.4	255.5	261.2	263.9	264.2	263.9	264.5	266.3	268.8	270.9	271.7	271.2	270.1
44	248.9	245.6	243.7	245.4	250.7	257.5	263.0	265.5	265.7	265.4	266.2	268.2	270.7	272.8	273.8	273.5	272.6
45	251.4	248.4	246.5	247.9	252.8	259.3	264.5	266.8	266.9	266.7	267.6	269.6	272.2	274.3	275.5	275.4	274.8
46	253.8	251.0	249.1	250.1	254.6	260.7	265.8	267.9	267.8	267.6	268.6	270.7	273.2	275.4	276.7	277.0	276.6
47	255.8	253.3	251.4	252.0	256.0	261.8	266.6	268.6	268.4	268.1	269.2	271.4	273.9	276.0	277.5	278.1	278.1
48	257.6	255.4	253.3	253.6	257.0	262.5	267.2	269.0	268.6	268.3	269.4	271.6	274.0	276.2	277.9	278.9	279.2
49	259.1	257.0	254.9	254.7	257.6	262.8	267.5	269.0	268.5	268.1	269.2	271.4	273.7	275.9	277.8	279.2	279.8
50	260.2	258.4	256.1	255.4	257.8	262.6	267.0	268.6	268.0	267.5	268.6	270.7	273.0	275.2	277.3	279.0	279.9
51	261.0	259.4	257.0	255.7	257.6	262.1	266.3	267.9	267.1	266.6	267.6	269.6	271.8	274.0	276.3	278.4	279.6
52	261.5	260.0	257.4	255.6	256.9	261.1	265.2	266.7	265.8	265.2	266.2	268.1	270.3	272.5	274.9	277.3	278.9
53	261.5	260.3	257.5	255.2	255.9	259.7	263.8	265.1	264.2	263.5	264.4	266.3	268.3	270.5	273.2	275.8	277.7
54	261.3	260.2	257.3	254.4	254.5	258.0	261.9	263.2	262.2	261.5	262.4	264.2	266.1	268.3	271.1	274.0	276.1
55	260.7	259.8	256.7	253.4	252.9	256.0	259.7	260.9	259.9	259.2	260.1	261.8	263.6	265.7	268.7	271.9	274.1
56	259.7	259.0	255.9	252.1	251.1	253.8	257.2	258.3	257.2	256.6	257.5	259.2	260.9	263.0	266.0	269.4	271.9
57	258.5	258.0	254.8	250.6	249.1	251.3	254.4	255.3	254.3	253.8	254.9	256.5	258.0	260.0	263.2	266.7	269.3
58	257.1	256.8	253.6	249.1	247.1	248.8	251.5	252.2	251.1	250.8	252.0	253.6	254.9	256.9	260.1	263.8	266.5
59	255.4	255.4	252.2	247.4	244.9	246.1	248.3	248.7	247.8	247.7	249.2	250.7	251.8	253.6	257.0	260.8	263.5
60	253.5	253.8	250.7	245.7	242.8	243.4	245.1	245.1	244.2	244.5	246.2	247.7	248.6	250.3	253.8	257.7	260.3
61	251.5	252.0	249.1	244.0	240.7	240.7	241.7	241.4	240.6	241.3	243.2	244.7	245.4	247.0	250.5	254.4	257.0
62	249.4	250.2	247.4	242.3	238.6	238.0	238.3	237.5	236.8	237.9	240.2	241.7	242.1	243.6	247.1	251.1	253.7
63	247.2	248.3	245.7	240.6	236.6	235.4	234.9	233.6	233.0	234.6	237.2	238.6	238.9	240.2	243.8	247.8	250.2
64	245.1	246.3	244.0	238.9	234.7	232.7	231.4	229.7	229.2	231.2	234.2	235.6	235.6	236.9	240.4	244.4	246.7
65	242.9	244.3	242.3	237.3	232.8	230.2	228.0	225.8	225.4	227.9	231.2	232.6	232.4	233.5	237.1	241.0	243.1
66	240.9	242.4	240.5	235.6	230.9	227.6	224.6	222.0	221.7	224.6	228.2	229.5	229.1	230.2	233.8	237.6	239.5
67	238.9	240.5	238.7	233.9	229.0	225.0	221.3	218.2	218.1	221.3	225.2	226.4	225.8	226.8	230.4	234.1	235.8
68	237.1	238.6	236.9	232.2	227.0	222.5	218.0	214.6	214.5	218.1	222.1	223.3	222.6	223.5	227.0	230.6	232.1
69	235.5	236.8	235.1	230.4	225.0	219.9	214.8	211.2	211.2	214.9	219.0	220.1	219.2	220.1	223.6	227.0	228.2
70	234.0	235.0	233.2	228.5	222.9	217.3	211.7	207.9	208.0	211.9	215.9	216.8	215.9	216.8	220.2	223.3	224.2
71	232.8	233.4	231.3	226.5	220.7	214.6	208.7	204.8	205.0	208.9	212.7	213.4	212.5	213.4	216.6	219.5	220.1
72	231.7	231.8	229.4	224.4	218.3	211.9	205.9	202.1	202.3	206.1	209.6	210.0	209.0	209.9	213.0	215.5	215.8
73	230.9	230.4	227.4	222.2	215.8	209.3	203.2	199.6	199.9	203.4	206.4	206.6	205.6	206.4	209.3	211.4	211.3
74	230.3	229.1	225.5	219.9	213.3	206.6	200.8	197.4	197.9	201.0	203.4	203.2	202.1	202.9	205.4	207.0	206.7
75	229.9	227.9	223.7	217.6	210.8	204.1	198.6	195.7	196.3	198.9	200.5	199.9	198.7	199.4	201.4	202.5	201.9
76	229.6	226.9	222.0	215.5	208.5	201.9	196.8	194.5	195.2	197.2	198.0	196.8	195.4	195.8	197.2	197.8	196.9
77	229.5	226.1	220.6	213.7	206.5	200.0	195.5	193.9	194.7	196.1	195.9	194.0	192.3	192.2	193.0	192.8	191.7
78	229.6	225.5	219.6	212.5	205.2	198.8	194.9	193.9	195.0	195.7	194.5	191.8	189.6	188.8	188.6	187.8	186.4
79	229.6	225.2	219.2	212.2	204.8	198.6	195.1	194.9	196.1	196.3	194.1	190.4	187.3	185.4	184.1	182.5	181.0
80	229.6	225.3	219.7	213.2	206.0	199.8	196.6	196.9	198.5	198.3	195.0	190.1	185.6	182.2	179.5	177.3	175.6

JUNE

ZONAL MEAN TEMPERATURE (K)

KM LAT =	-80	-70	-60	-50	-40	-30	-20	-10	0	10	20	30	40	50	60	70	80 DEG
18	189.4	197.3	207.6	215.5	217.0	213.1	208.1	205.1	204.2	204.5	205.8	209.0	214.3	220.3	225.3	228.6	230.4
19	182.4	192.3	205.0	214.8	217.2	213.8	209.3	206.9	206.5	207.2	208.7	211.7	216.3	221.2	225.4	228.4	230.3
20	178.3	188.8	202.7	213.9	217.7	215.0	210.9	208.9	209.0	210.0	211.6	214.3	218.1	222.1	225.6	228.3	230.4
21	176.3	186.7	200.7	213.0	218.1	216.5	212.9	211.1	211.5	212.8	214.3	216.6	219.8	223.1	226.0	228.5	230.7
22	176.0	185.6	199.2	212.0	218.4	217.9	215.0	213.5	214.1	215.5	216.9	218.8	221.4	224.1	226.6	229.0	231.1
23	176.8	185.4	198.1	210.9	218.5	219.3	217.1	215.9	216.6	218.0	219.3	220.9	223.0	225.2	227.4	229.6	231.8
24	178.6	185.9	197.4	210.0	218.4	220.6	219.3	218.4	219.1	220.5	221.6	222.9	224.6	226.5	228.4	230.6	232.6
25	181.1	187.1	197.2	209.1	218.2	221.7	221.4	220.9	221.6	222.8	223.8	224.8	226.2	227.8	229.7	231.7	233.6
26	184.3	188.9	197.5	208.4	217.9	222.7	223.5	223.4	224.0	225.0	225.8	226.6	227.8	229.3	231.2	233.1	234.8
27	187.9	191.2	198.1	208.0	217.6	223.6	225.5	225.8	226.3	227.1	227.8	228.4	229.4	231.0	232.9	234.8	236.2
28	191.9	193.9	199.2	207.8	217.4	224.4	227.5	228.2	228.6	229.1	229.7	230.2	231.2	232.8	234.8	236.6	237.8
29	196.1	196.9	200.6	208.0	217.3	225.2	229.4	230.7	230.8	231.1	231.6	232.1	233.1	234.8	236.9	238.7	239.6
30	200.5	200.2	202.5	208.5	217.4	226.0	231.4	233.0	233.0	233.0	233.5	234.1	235.1	236.9	239.3	241.0	241.6
31	205.0	203.8	204.6	209.3	217.7	227.0	233.4	235.4	235.2	235.0	235.4	236.1	237.2	239.3	241.8	243.4	243.8
32	209.5	207.6	207.1	210.6	218.4	228.2	235.3	237.8	237.4	237.0	237.4	238.2	239.4	241.7	244.4	246.0	246.1
33	214.1	211.4	209.9	212.1	219.4	229.5	237.4	240.1	239.5	239.0	239.5	240.4	241.8	244.3	247.2	248.8	248.6
34	218.5	215.4	212.9	214.1	220.8	231.0	239.5	242.5	241.7	241.0	241.6	242.7	244.3	247.0	250.1	251.7	251.2
35	222.9	219.5	216.1	216.3	222.5	232.8	241.6	244.8	243.9	243.1	243.8	245.1	246.8	249.7	253.1	254.6	253.9
36	227.1	223.5	219.5	218.9	224.5	234.8	243.9	247.1	246.1	245.2	246.0	247.6	249.5	252.6	256.1	257.6	256.8
37	231.2	227.5	223.0	221.8	226.9	237.0	246.1	249.4	248.3	247.4	248.4	250.1	252.1	255.4	259.0	260.6	259.7
38	235.1	231.4	226.6	224.9	229.5	239.4	248.5	251.6	250.4	249.6	250.7	252.6	254.8	258.2	262.0	263.6	262.4
39	238.8	235.2	230.3	228.1	232.3	241.9	250.8	253.8	252.6	251.8	253.1	255.1	257.5	261.0	264.9	266.5	265.3
40	242.3	238.9	234.0	231.5	235.3	244.5	253.1	255.9	254.6	253.9	255.4	257.6	260.1	263.6	267.6	269.4	268.4
41	245.7	242.4	237.6	235.0	238.4	247.2	255.4	257.9	256.6	256.0	257.6	260.0	262.5	266.1	270.2	272.0	271.2
42	248.8	245.8	241.1	238.4	241.6	249.8	257.5	259.8	258.0	257.7	259.7	262.2	264.8	268.5	272.5	274.5	273.8
43	251.6	248.9	244.4	241.7	244.6	252.4	259.5	261.6	260.2	259.9	261.7	264.2	266.9	270.5	274.6	276.8	276.3
44	254.3	251.8	247.6	244.9	247.6	254.8	261.4	263.1	261.8	261.5	263.5	266.1	268.7	272.3	276.5	278.8	278.6
45	256.7	254.5	250.5	247.9	250.3	256.9	262.9	264.4	263.1	263.0	265.0	267.6	270.2	273.8	278.0	280.5	280.6
46	258.9	256.9	253.2	250.6	252.7	258.8	264.3	265.5	264.2	264.2	266.2	268.8	271.4	275.0	279.2	281.9	282.3
47	260.9	259.1	255.5	252.9	254.7	260.2	265.2	266.3	265.0	265.0	267.1	269.7	272.2	275.7	280.0	283.0	283.6
48	262.6	261.0	257.5	254.9	256.3	261.3	265.9	266.7	265.5	265.6	267.6	270.1	272.7	276.1	280.4	283.6	284.4
49	264.0	262.6	259.2	256.4	257.4	261.9	266.1	266.9	265.7	265.8	267.8	270.2	272.7	276.1	280.5	283.9	285.3
50	265.1	263.9	260.5	257.5	258.0	262.1	265.9	266.6	265.5	265.6	267.5	269.9	272.3	275.7	280.2	283.9	285.5
51	265.9	264.8	261.5	258.1	258.2	261.8	265.4	266.0	264.9	265.0	266.8	269.1	271.4	274.9	279.4	283.4	285.4
52	266.4	265.5	262.1	258.4	257.8	261.0	264.4	265.0	264.0	264.0	265.7	267.9	270.2	273.6	278.4	282.4	284.8
53	266.5	265.8	262.4	258.2	257.1	259.8	263.0	263.7	262.6	262.6	264.2	266.3	268.6	272.1	276.9	281.4	283.8
54	266.3	265.8	262.3	257.7	256.0	258.2	261.2	261.9	260.9	260.8	262.3	264.3	266.6	270.1	275.1	279.8	282.5
55	265.8	265.5	261.9	256.8	254.6	256.3	259.1	259.8	258.9	258.7	260.1	262.0	264.3	267.9	273.0	277.9	280.7
56	264.9	264.8	261.2	255.8	252.9	254.1	256.6	257.3	256.4	256.3	257.6	259.4	261.7	265.4	270.6	275.7	278.7
57	263.7	263.8	260.2	254.5	251.0	251.7	253.9	254.5	253.7	253.6	254.8	256.5	258.8	262.6	268.0	273.2	276.2
58	262.1	262.5	259.0	253.0	249.0	249.1	250.9	251.4	250.7	250.6	251.7	253.4	255.6	259.5	265.1	270.3	273.5
59	260.3	260.9	257.6	251.4	247.0	246.4	247.7	248.1	247.5	247.4	248.5	250.1	252.3	256.3	261.9	267.3	270.5
60	258.2	259.0	255.9	249.8	244.9	243.7	244.4	244.6	244.0	244.1	245.1	246.6	248.8	252.9	258.6	264.0	267.2
61	255.8	256.9	254.1	248.1	242.9	241.0	241.0	240.8	240.4	240.6	241.7	243.1	245.2	249.3	255.0	260.5	263.7
62	253.3	254.5	252.1	246.3	240.9	238.2	237.5	237.0	236.6	237.0	238.1	239.4	241.5	245.6	251.3	256.8	260.0
63	250.7	252.0	250.0	244.6	239.0	235.5	233.9	233.1	232.8	233.4	234.5	235.7	237.7	241.8	247.5	252.9	256.1
64	248.0	249.4	247.8	242.8	237.0	232.8	230.3	229.1	228.9	229.8	231.0	232.0	233.9	237.8	243.5	248.8	252.0
65	245.2	246.6	245.4	240.9	235.1	230.1	226.8	225.1	225.1	226.2	227.4	228.3	230.0	233.8	239.4	244.6	247.7
66	242.5	243.9	243.0	239.0	233.2	227.4	223.2	221.1	221.2	222.6	223.9	224.6	226.1	229.7	235.1	240.2	243.2
67	239.9	241.1	240.6	237.0	231.2	224.8	219.7	217.2	217.5	219.2	220.5	221.0	222.2	225.6	230.8	235.7	238.5
68	237.3	238.4	238.0	234.9	229.0	222.0	216.3	213.5	213.8	215.8	217.1	217.4	218.3	221.4	226.3	231.0	233.7
69	235.0	235.8	235.5	232.6	226.8	219.3	212.9	209.8	210.3	212.5	213.8	213.9	214.4	217.1	221.8	226.2	228.8
70	232.8	233.3	232.9	230.2	224.3	216.4	209.6	206.4	207.0	209.4	210.7	210.4	210.5	212.8	217.1	221.3	223.6
71	230.9	231.0	230.4	227.6	221.6	213.5	206.5	203.2	203.9	206.4	207.7	207.1	206.6	208.5	212.4	216.2	218.4
72	229.2	228.9	227.9	224.8	218.7	210.5	203.5	200.2	201.0	203.7	204.8	203.8	202.8	204.1	207.5	211.0	212.9
73	227.8	227.1	225.4	221.8	215.6	207.5	200.7	197.5	198.5	201.1	202.1	200.7	199.1	199.8	202.6	205.7	207.4
74	226.7	225.5	223.1	218.9	212.4	204.6	198.1	195.2	196.2	198.9	199.6	197.7	195.5	195.4	197.7	200.3	201.7
75	225.7	224.1	220.9	215.9	209.2	201.8	195.8	193.3	194.4	196.9	197.4	194.9	192.0	191.1	192.7	194.8	195.9
76	225.0	222.9	218.9	213.2	206.2	199.2	193.9	191.8	193.0	195.3	195.4	192.4	188.6	186.9	187.7	189.1	190.0
77	224.4	221.8	217.2	210.9	203.8	197.2	192.5	190.9	192.2	194.2	193.8	190.1	185.5	182.9	182.7	183.5	184.0
78	223.8	220.9	215.9	209.3	202.2	195.9	191.7	190.6	192.0	193.6	192.5	188.1	182.7	179.0	177.7	177.8	178.0
79	223.1	219.8	214.9	208.8	201.9	195.8	191.9	191.1	192.6	193.8	191.9	186.6	180.3	175.3	172.7	172.0	172.1
80	222.1	218.6	214.6	209.9	203.8	197.3	193.1	192.6	194.2	194.8	191.9	185.6	178.3	172.0	167.9	166.3	166.2

JULY

ZONAL MEAN TEMPERATURE (K)

KM LAT =	-80	-70	-60	-50	-40	-30	-20	-10	0	10	20	30	40	50	60	70	80 DEG
18	178.8	188.4	201.5	212.9	216.9	213.5	208.2	205.3	204.9	205.5	206.6	209.2	214.1	220.1	225.5	229.1	231.1
19	170.7	182.2	198.2	212.0	217.0	213.8	208.8	206.5	206.9	208.1	209.5	211.9	216.1	221.1	225.5	228.7	230.8
20	167.3	179.1	195.8	211.1	217.6	215.1	210.3	208.3	209.2	210.8	212.2	214.4	218.0	222.1	225.7	228.7	230.9
21	167.0	178.0	194.4	210.3	218.2	216.7	212.3	210.5	211.6	213.4	214.8	216.7	219.7	223.2	226.2	228.9	231.2
22	168.8	178.6	193.8	209.7	218.7	218.5	214.6	212.9	214.0	215.8	217.1	218.8	221.4	224.3	226.9	229.4	231.8
23	172.2	180.3	193.9	209.3	219.2	220.2	217.0	215.4	216.4	218.1	219.3	220.7	223.0	225.5	227.8	230.2	232.6
24	176.7	183.0	194.7	209.0	219.5	221.8	219.4	217.9	218.7	220.3	221.3	222.5	224.5	226.8	228.9	231.2	233.5
25	182.0	186.4	196.0	209.0	219.6	223.1	221.7	220.3	221.0	222.3	223.2	224.2	226.0	228.2	230.3	232.4	234.5
26	187.8	190.4	197.8	209.3	219.7	224.3	223.8	222.7	223.1	224.1	224.9	225.9	227.6	229.7	231.8	233.8	235.7
27	193.8	194.7	200.1	209.8	219.8	225.2	225.8	225.0	225.1	225.9	226.6	227.5	229.1	231.3	233.5	235.5	237.0
28	199.9	199.4	202.7	210.6	219.9	226.0	227.6	227.2	227.6	228.2	229.1	230.7	233.0	235.3	237.3	239.5	241.9
29	205.8	204.1	205.7	211.8	220.2	226.7	229.3	229.3	229.0	229.2	229.8	230.8	232.4	234.8	237.4	239.2	240.1
30	211.5	208.9	208.9	213.3	220.6	227.5	231.0	231.4	230.9	230.9	231.5	232.5	234.2	236.8	239.6	241.4	241.9
31	216.8	213.7	212.4	215.1	221.3	228.3	232.6	233.4	232.8	232.6	233.2	234.2	236.1	238.9	241.9	243.7	243.8
32	221.7	218.5	216.1	217.1	222.3	229.3	234.3	235.5	234.7	234.3	234.9	236.1	238.0	241.1	244.4	246.1	245.9
33	226.2	223.0	219.8	219.5	223.6	230.5	236.0	237.6	236.7	236.2	236.8	238.1	240.1	243.4	246.9	248.6	248.1
34	230.2	227.4	223.7	222.1	225.2	231.9	237.8	239.7	238.7	238.1	238.7	240.1	242.3	245.8	249.5	251.2	250.5
35	233.9	231.5	227.6	225.0	227.2	233.5	239.7	241.8	240.8	240.1	240.8	242.3	244.6	248.3	252.2	253.9	253.0
36	237.2	235.4	231.4	228.1	229.4	235.5	241.8	244.1	243.0	242.2	242.9	244.6	247.0	250.8	254.9	256.6	255.6
37	240.2	239.1	235.2	231.3	231.9	237.7	244.0	246.3	245.2	244.4	245.2	246.9	249.4	253.4	257.6	259.4	258.2
38	243.0	242.5	238.8	234.6	234.7	240.1	246.3	248.6	247.5	246.6	247.5	249.2	251.8	255.9	260.3	262.1	261.0
39	245.6	245.7	242.3	238.0	237.7	242.7	248.7	251.0	249.8	248.9	249.8	251.6	254.3	258.5	262.9	264.8	263.7
40	248.2	248.7	245.7	241.3	240.8	245.5	251.2	253.3	252.1	251.2	252.1	254.0	256.7	260.9	265.4	267.4	266.4
41	250.7	251.5	248.8	244.6	243.9	248.3	253.7	255.6	254.4	253.5	254.4	256.3	259.0	263.2	267.8	269.9	269.1
42	253.2	254.1	251.6	247.7	247.0	251.1	256.1	257.8	256.5	255.7	256.6	258.5	261.2	265.4	269.9	272.2	271.7
43	255.7	256.5	254.2	250.6	250.0	253.8	258.4	259.9	258.6	257.8	258.6	260.5	263.2	267.4	271.9	274.3	274.1
44	258.1	258.7	256.5	253.2	252.8	256.4	260.6	261.8	260.5	259.7	260.5	262.4	265.0	269.1	273.6	276.3	276.3
45	260.6	260.8	258.5	255.5	255.3	258.7	262.5	263.5	262.1	261.3	262.2	264.0	266.6	270.6	275.1	277.9	278.3
46	262.9	262.7	260.3	257.4	257.3	260.6	264.2	264.9	263.5	262.8	263.6	265.3	267.8	271.7	276.2	279.3	280.1
47	265.1	264.4	261.7	258.9	258.9	262.2	265.4	265.9	264.6	263.9	264.7	266.3	268.7	272.5	277.1	280.4	281.5
48	267.2	265.9	262.7	259.9	260.0	263.2	266.2	266.7	265.4	264.7	265.4	266.9	269.3	273.0	277.6	281.2	282.7
49	269.1	267.1	263.5	260.5	260.6	263.7	266.6	267.0	265.7	265.1	265.7	267.2	269.4	273.1	277.8	281.6	283.5
50	270.6	268.1	264.0	260.6	260.6	263.6	266.5	266.9	265.7	265.1	265.7	267.0	269.1	272.7	277.6	281.7	283.9
51	271.8	268.9	264.2	260.4	260.0	263.9	266.9	266.4	265.3	264.7	265.2	266.4	268.4	272.0	277.0	281.5	283.9
52	272.6	269.3	264.0	259.7	259.0	263.7	266.7	265.5	264.5	263.9	264.3	265.4	267.2	270.9	276.1	280.9	283.6
53	273.0	269.4	263.6	258.7	257.5	260.0	263.2	264.1	263.3	262.7	263.0	263.9	265.7	269.4	274.9	279.9	282.8
54	272.8	269.1	262.9	257.3	255.6	257.9	261.1	262.3	261.7	261.1	261.3	262.0	263.8	267.6	273.3	278.6	281.7
55	272.2	268.5	261.9	255.7	253.4	255.4	258.7	260.2	259.8	259.2	259.3	259.8	261.4	265.4	271.3	277.0	280.2
56	271.0	267.5	260.7	253.9	250.9	252.6	256.0	257.7	257.5	257.0	256.9	257.2	258.8	262.9	269.1	275.0	278.4
57	269.4	266.1	259.2	251.9	248.4	249.7	253.0	254.9	254.9	254.4	254.2	254.4	255.9	260.1	266.6	272.7	276.3
58	267.3	264.3	257.5	249.8	245.7	246.6	249.8	251.9	252.1	251.7	251.3	251.2	252.7	257.1	263.8	270.2	273.8
59	264.8	262.2	255.6	247.7	243.1	243.4	246.4	248.6	249.1	248.7	248.2	247.9	249.3	253.8	260.8	267.3	271.1
60	262.0	259.8	253.4	245.5	240.5	240.3	243.0	245.3	245.9	245.6	244.9	244.4	245.7	250.3	257.5	264.2	268.0
61	258.9	257.0	251.1	243.3	237.9	237.2	239.5	241.7	242.6	242.3	241.5	240.8	242.0	246.7	254.0	260.8	264.7
62	255.7	254.1	248.7	241.1	235.6	234.3	236.0	238.2	239.2	239.0	238.0	237.1	238.3	243.0	250.3	257.2	261.1
63	252.3	251.0	246.1	238.9	233.3	231.5	232.6	234.5	235.7	235.6	234.5	233.4	234.5	239.1	246.4	253.3	257.3
64	248.8	247.8	243.4	236.8	231.2	228.8	229.3	230.9	232.1	232.2	230.9	229.7	230.6	235.2	242.3	249.2	253.3
65	245.4	244.5	240.7	234.7	229.2	226.2	226.0	227.3	228.6	228.7	227.5	226.1	226.8	231.1	238.1	244.8	248.9
66	242.1	241.2	238.0	232.6	227.3	223.8	222.8	223.7	225.0	225.3	224.0	222.5	223.0	227.1	233.7	240.2	244.4
67	238.8	238.0	235.2	230.6	225.4	221.5	219.8	220.2	221.5	221.9	220.7	219.0	219.3	223.0	229.2	235.5	239.6
68	235.8	234.9	232.5	228.5	223.5	219.2	216.8	216.7	217.9	218.5	217.4	215.7	215.7	218.8	224.5	230.5	234.6
69	232.9	232.0	229.9	226.4	221.6	216.9	213.9	213.4	214.5	215.2	214.3	212.5	212.1	214.7	219.7	225.3	229.3
70	230.2	229.3	227.4	224.2	219.6	214.6	211.1	210.1	211.1	212.0	211.3	209.5	208.7	210.5	214.8	220.0	223.8
71	227.8	226.8	225.0	222.0	217.4	212.3	208.3	206.9	207.8	208.9	208.5	206.6	205.3	206.4	209.9	214.5	218.1
72	225.5	224.6	222.8	219.7	215.1	209.9	205.7	203.9	204.6	205.9	205.8	204.0	202.1	202.2	204.8	208.8	212.3
73	223.5	222.7	220.8	217.4	212.7	207.4	203.1	201.1	201.6	203.0	203.2	201.4	199.0	198.1	199.7	203.1	206.3
74	221.7	221.0	219.0	215.1	210.1	204.8	200.5	198.4	198.7	200.3	200.9	199.1	196.0	194.0	194.6	197.3	200.2
75	220.0	219.6	217.3	212.9	207.5	202.3	198.2	196.0	196.2	197.9	198.8	196.9	193.1	190.0	189.5	191.5	194.1
76	218.6	218.4	215.9	210.8	205.0	199.9	196.1	193.9	194.1	195.8	196.9	195.0	190.4	186.0	184.4	185.7	188.0
77	217.3	217.4	214.6	209.1	202.9	197.8	194.2	192.3	192.4	194.2	195.4	193.2	187.7	182.2	179.4	180.0	182.0
78	216.2	216.3	213.5	207.7	201.4	196.3	192.9	191.1	191.3	193.1	194.1	191.5	185.2	178.4	174.5	174.3	176.2
79	215.4	215.1	212.4	207.1	200.9	195.7	192.2	190.7	191.1	192.8	193.3	190.1	182.9	174.8	169.7	168.9	170.6
80	214.8	213.6	211.4	207.5	202.1	196.5	192.5	191.2	192.0	193.4	193.1	188.9	180.7	171.4	165.1	163.6	165.3

AUGUST

ZONAL MEAN TEMPERATURE (K)

KN LAT =	-80	-70	-60	-50	-40	-30	-20	-10	0	10	20	30	40	50	60	70	80 DEG
18	170.4	184.1	201.6	214.8	217.9	213.5	207.9	204.7	204.2	205.2	207.4	210.7	215.2	220.0	224.3	227.2	228.9
19	161.0	177.2	198.3	214.3	218.2	213.7	208.2	205.5	205.5	207.1	209.4	212.6	216.4	220.4	223.9	226.7	228.5
20	158.0	174.6	196.7	214.0	218.9	214.8	209.5	207.1	207.6	209.4	211.7	214.5	217.7	221.1	224.0	226.5	228.3
21	159.1	174.9	196.4	214.0	219.9	216.5	211.5	209.3	210.0	211.9	213.9	216.3	219.2	222.0	224.5	226.6	228.3
22	162.9	177.3	197.1	214.1	220.8	218.4	213.8	211.8	212.6	214.4	216.2	218.2	220.6	223.0	225.1	227.0	228.5
23	168.6	181.1	198.6	214.5	221.7	220.3	216.3	214.5	215.3	216.9	218.3	219.9	222.0	224.2	226.0	227.6	228.9
24	175.8	186.0	200.8	215.0	222.5	222.1	218.8	217.1	217.8	219.2	220.3	221.5	223.4	225.4	227.1	228.4	229.5
25	183.9	191.6	203.5	215.8	223.1	223.7	221.2	219.7	220.3	221.4	222.2	223.1	224.8	226.7	228.3	229.4	230.3
26	192.5	197.8	206.6	216.7	223.6	225.1	223.4	222.2	222.5	223.4	224.0	224.7	226.2	228.1	229.7	230.6	231.2
27	201.2	204.1	210.1	217.9	224.2	226.3	225.5	224.5	224.7	225.3	225.7	226.2	227.6	229.5	231.1	232.0	232.3
28	209.7	210.4	213.8	219.3	224.7	227.3	227.4	226.8	226.7	227.1	227.3	227.8	229.1	231.0	232.8	233.6	233.6
29	217.5	216.7	217.6	221.0	225.3	228.3	229.2	228.9	228.7	228.8	229.0	229.4	230.6	232.6	234.5	235.3	235.1
30	224.6	221.6	221.5	222.8	226.0	229.3	231.0	231.0	230.6	230.5	230.6	231.1	232.3	234.4	234.4	237.2	236.7
31	230.8	228.1	225.5	224.9	226.9	230.3	232.7	233.2	232.6	232.2	232.4	232.8	234.0	236.2	238.4	239.2	238.5
32	236.0	233.1	229.4	227.1	228.0	231.4	234.5	235.3	234.6	234.1	234.2	234.7	235.9	238.1	240.5	241.3	240.5
33	240.3	237.7	233.3	229.5	229.4	232.7	236.3	237.5	236.7	236.0	236.1	236.7	237.9	240.2	242.8	243.6	242.6
34	243.7	241.8	237.0	232.1	231.0	234.2	238.3	239.8	238.9	238.0	238.2	238.8	240.0	242.4	245.1	246.0	244.8
35	246.5	245.4	240.6	234.8	232.8	235.9	240.4	242.2	241.2	240.2	240.3	241.0	242.2	244.7	247.5	248.4	247.1
36	248.8	248.6	244.1	237.6	234.9	237.8	242.6	244.7	243.7	242.5	242.6	243.3	244.5	247.1	250.0	250.9	249.5
37	250.7	251.5	247.3	240.4	237.2	240.0	245.0	247.3	246.2	245.0	245.0	245.6	246.9	249.5	252.5	253.4	252.0
38	252.5	254.0	250.2	243.2	239.6	242.3	247.5	249.9	248.9	247.5	247.4	248.0	249.4	252.0	255.0	255.9	254.5
39	254.3	256.3	252.9	245.9	242.2	244.8	250.1	252.7	251.6	250.1	249.8	250.4	251.8	254.4	257.4	258.4	256.9
40	256.1	258.4	255.4	248.5	244.8	247.4	252.7	255.4	254.4	252.7	252.3	252.8	254.2	256.8	259.8	260.7	259.4
41	258.1	260.4	257.5	250.9	247.4	250.0	255.4	258.1	257.1	255.3	254.7	255.1	256.5	259.1	262.0	263.0	261.7
42	260.1	262.2	259.3	253.1	249.9	252.6	257.9	260.7	259.7	257.7	257.0	257.3	258.6	261.3	264.1	265.1	263.9
43	262.4	263.8	260.9	255.1	252.3	255.1	260.4	263.1	262.1	260.1	259.1	259.3	260.6	263.2	266.0	267.0	266.0
44	264.7	265.4	262.1	256.7	254.4	257.4	262.6	265.2	264.2	262.1	261.0	261.1	262.4	265.0	267.7	268.8	267.9
45	267.1	266.8	263.0	257.9	256.1	259.3	264.5	267.1	266.1	263.9	262.6	262.6	263.8	266.4	269.1	270.2	269.6
46	269.4	268.0	263.6	258.8	257.5	261.0	266.0	268.6	267.6	265.4	264.0	263.8	265.0	267.5	270.2	271.5	271.1
47	271.6	269.0	263.9	259.2	258.4	262.1	267.2	269.6	268.7	266.5	264.9	264.6	265.7	268.2	271.0	272.4	272.3
48	273.6	269.7	263.9	259.2	258.9	262.8	267.8	270.2	269.3	267.1	265.5	265.1	266.1	268.5	271.4	273.1	273.2
49	275.3	270.2	263.6	258.9	258.8	263.0	268.0	270.3	269.4	267.4	265.7	265.2	266.1	268.5	271.4	273.4	273.9
50	276.5	270.3	263.0	258.1	258.2	262.6	267.6	269.9	269.1	267.1	265.5	264.9	265.7	268.0	271.1	273.4	274.2
51	277.1	270.1	262.1	257.0	257.2	261.7	266.7	268.9	268.2	266.4	265.0	264.3	264.9	267.2	270.5	273.1	274.3
52	277.2	269.5	260.9	255.5	255.7	260.2	265.3	267.5	266.9	265.3	264.0	263.2	263.6	265.9	269.5	272.6	274.1
53	276.6	268.6	259.5	253.8	253.9	258.4	263.4	265.7	265.2	263.9	262.6	261.8	262.1	264.3	268.1	271.7	273.6
54	275.4	267.2	257.8	251.9	251.7	256.1	261.1	263.4	263.1	262.0	261.0	260.1	260.1	262.4	266.5	270.5	272.8
55	273.5	265.4	256.0	249.8	249.3	253.6	258.5	260.8	260.7	259.9	259.0	258.0	257.9	260.2	264.6	269.1	271.8
56	271.1	263.3	254.0	247.5	246.8	250.8	255.5	257.9	258.0	257.6	256.9	255.8	255.4	257.7	262.4	267.4	270.5
57	268.2	260.9	251.8	245.2	244.1	247.8	252.4	254.8	255.2	255.0	254.5	253.3	252.8	255.0	260.1	265.5	268.9
58	265.0	258.2	249.5	242.8	241.5	244.8	249.2	251.6	252.2	252.4	252.0	250.7	249.9	252.1	257.5	263.3	267.1
59	261.4	255.3	247.0	240.5	238.9	241.8	245.9	248.3	249.1	249.6	249.4	247.9	246.9	249.1	254.7	261.0	265.0
60	257.7	252.3	244.6	238.2	236.4	238.9	242.6	244.9	246.0	246.8	246.6	245.0	243.9	246.0	251.8	258.3	262.7
61	254.0	249.1	242.0	236.0	234.0	236.1	239.3	241.5	242.9	244.0	243.9	242.1	240.8	242.9	248.7	255.5	260.1
62	250.3	246.0	239.5	233.9	231.8	233.4	236.1	238.2	239.8	241.1	241.1	239.2	237.6	239.6	245.5	252.5	257.3
63	246.7	242.8	237.0	231.9	229.8	230.9	233.1	235.0	236.7	238.3	238.3	236.2	234.5	236.4	242.2	249.2	254.1
64	243.3	239.8	234.6	230.0	228.0	228.6	230.1	231.8	233.7	235.4	235.5	233.3	231.4	233.1	238.8	245.8	250.8
65	240.0	236.8	232.3	228.2	226.3	226.4	227.3	228.7	230.6	232.6	232.6	230.3	228.3	229.8	235.2	242.1	247.1
66	237.1	234.0	230.0	226.6	224.8	224.4	224.7	225.6	227.6	229.7	229.8	227.4	225.3	226.4	231.6	238.2	243.1
67	234.3	231.5	227.9	225.0	223.3	222.5	222.1	222.7	224.6	226.7	226.9	224.5	222.2	223.1	227.8	234.0	238.9
68	231.8	229.1	226.0	223.6	222.0	220.7	219.6	219.7	221.5	223.7	224.0	221.7	219.2	219.7	223.9	229.7	234.3
69	229.4	226.9	224.2	222.2	220.6	218.9	217.2	216.8	218.4	220.6	221.0	218.8	216.3	216.3	219.9	225.2	229.6
70	227.2	225.0	222.6	220.8	219.2	217.0	214.8	213.9	215.2	217.4	218.0	216.0	213.3	212.9	215.7	220.4	224.5
71	225.1	223.2	221.2	219.4	217.6	215.1	212.4	211.0	211.9	214.1	215.0	213.2	210.4	209.4	211.5	216.3	221.3
72	223.0	221.7	220.0	218.1	215.9	213.1	210.0	208.1	208.6	210.7	211.9	210.5	207.5	205.9	207.1	210.5	213.9
73	220.9	220.4	218.9	216.7	214.1	211.0	207.6	205.3	205.3	207.3	208.8	207.7	204.6	202.3	202.7	205.4	208.5
74	218.9	219.1	218.0	215.3	212.1	208.7	205.1	202.4	202.0	203.9	205.8	205.1	201.8	198.8	198.3	200.3	203.0
75	216.9	218.1	217.2	213.9	210.0	206.3	202.7	199.7	198.9	200.7	203.0	202.6	199.1	195.3	193.9	195.3	197.6
76	215.0	217.1	216.4	212.5	207.8	203.9	200.4	197.3	196.1	197.8	200.3	200.2	196.4	191.8	189.6	190.4	192.4
77	213.4	216.2	215.7	211.1	205.8	201.7	198.3	195.2	193.8	195.4	198.1	198.1	193.9	188.5	185.5	185.7	187.5
78	212.4	215.4	214.8	209.9	204.1	199.9	196.7	193.7	192.3	193.8	196.5	196.1	191.7	185.5	181.6	181.3	183.1
79	212.3	214.7	213.7	208.8	203.1	198.8	195.6	193.0	192.0	193.4	195.7	195.1	189.8	182.7	178.1	177.4	179.2
80	213.9	214.2	212.3	208.2	203.2	198.8	195.6	193.6	193.3	194.7	196.2	194.6	188.4	180.5	175.1	174.1	176.1

SEPTEMBER

ZONAL MEAN TEMPERATURE (K)

KN LAT	-80	-70	-60	-50	-40	-30	-20	-10	0	10	20	30	40	50	60	70	80 DEG
18	175.9	193.2	211.7	220.5	218.2	212.2	207.5	204.7	203.5	204.3	207.0	210.9	215.1	219.4	222.9	224.6	224.7
19	170.8	189.6	210.3	220.6	218.6	212.6	208.2	206.0	205.2	206.0	208.4	211.9	215.6	219.2	222.2	223.6	223.6
20	170.4	189.0	209.9	220.7	219.3	213.7	209.6	207.8	207.4	208.3	210.4	213.3	216.4	219.5	222.0	223.1	223.0
21	173.1	190.6	210.2	220.9	220.2	215.2	211.6	210.2	210.1	210.9	212.7	214.9	217.5	220.0	222.1	222.9	222.7
22	178.1	193.7	211.2	221.1	221.1	217.0	213.8	212.7	212.9	213.7	215.0	216.7	218.6	220.7	222.4	223.0	222.6
23	184.7	197.9	212.6	221.3	221.9	218.8	216.2	215.3	215.7	216.5	217.4	218.4	219.8	221.5	222.9	223.1	222.6
24	192.5	202.9	214.5	221.7	222.7	220.6	218.6	218.0	218.4	219.1	219.6	220.2	221.1	222.4	223.4	223.5	222.8
25	201.0	208.4	216.7	222.1	223.4	222.3	220.9	220.6	221.1	221.6	221.8	221.9	222.4	223.4	224.2	223.9	223.0
26	209.8	214.2	219.2	222.8	224.1	223.9	223.2	223.1	223.5	223.9	223.9	223.6	223.7	224.5	225.0	224.4	223.2
27	218.7	220.1	221.9	223.6	224.8	225.3	225.4	225.5	225.9	226.1	225.8	225.3	225.1	225.6	225.9	225.1	223.6
28	227.1	225.9	224.7	224.6	225.5	226.8	227.6	227.9	228.1	228.1	227.7	226.9	226.5	226.8	226.9	225.8	224.0
29	235.0	231.4	227.7	225.8	226.3	228.2	229.7	230.2	230.2	230.1	229.6	228.7	228.1	228.2	228.1	226.7	224.6
30	242.0	236.6	230.7	227.2	227.3	229.6	231.8	232.6	232.4	232.0	231.4	230.5	229.7	229.6	229.4	227.8	225.3
31	248.1	241.4	233.8	228.9	228.4	231.1	233.9	234.9	234.5	234.0	233.3	232.3	231.5	231.2	230.9	229.0	226.2
32	253.1	245.8	236.9	230.8	229.7	232.7	236.1	237.3	236.7	236.0	235.3	234.3	233.3	233.0	232.5	230.3	227.2
33	257.3	249.6	240.0	232.8	231.2	234.4	238.3	239.7	239.0	238.1	237.4	236.4	235.4	235.0	234.3	231.9	228.5
34	260.6	253.1	242.9	235.0	233.0	236.3	240.6	242.3	241.4	240.4	239.6	238.6	237.5	237.1	236.2	233.6	229.9
35	263.2	256.0	245.8	237.4	235.0	238.3	243.0	244.9	244.0	242.7	241.9	240.9	239.8	239.3	238.3	235.4	231.4
36	265.2	258.6	248.6	239.9	237.2	240.6	245.5	247.6	246.6	245.2	244.3	243.3	242.3	241.7	240.6	237.4	233.2
37	266.8	260.9	251.2	242.4	239.6	242.9	248.1	250.3	249.4	247.9	246.9	245.8	244.8	244.2	242.9	239.5	235.1
38	268.2	262.8	253.6	245.0	242.1	245.4	250.7	253.1	252.2	250.6	249.4	248.4	247.4	246.7	245.3	241.8	237.2
39	269.4	264.5	255.8	247.5	244.7	248.0	253.3	255.9	255.1	253.3	252.0	250.9	250.0	249.3	247.8	244.0	239.4
40	270.5	265.9	257.7	249.9	247.3	250.6	256.0	258.6	257.9	256.1	254.6	253.4	252.5	251.9	250.2	246.3	241.7
41	271.6	267.1	259.4	252.2	249.9	253.2	258.5	261.3	260.7	258.8	257.1	255.9	255.0	254.4	252.6	248.6	244.0
42	272.7	268.2	260.8	254.2	252.3	255.7	260.9	263.7	263.3	261.3	259.5	258.2	257.4	256.7	254.9	250.9	246.3
43	273.8	269.0	261.9	256.0	254.6	258.0	263.1	265.9	265.6	263.7	261.7	260.3	259.6	258.9	257.0	253.0	248.6
44	275.0	269.7	262.8	257.5	256.7	260.1	265.0	267.9	267.7	265.7	263.6	262.2	261.5	260.8	258.9	255.0	250.9
45	276.1	270.2	263.3	258.7	258.4	261.9	266.6	269.4	269.4	267.4	265.2	263.8	263.1	262.5	260.5	256.8	253.0
46	277.0	270.4	263.5	259.5	259.7	263.3	267.8	270.6	270.6	268.7	266.5	265.0	264.4	263.7	261.8	258.4	255.0
47	277.8	270.5	263.4	259.9	260.6	264.4	268.6	271.3	271.4	269.6	267.3	265.9	265.3	264.6	262.7	259.7	256.7
48	278.4	270.3	263.0	259.9	261.1	264.9	269.0	271.5	271.6	269.9	267.7	266.3	265.7	265.1	263.3	260.7	258.2
49	278.7	269.9	262.4	259.5	261.1	265.0	268.9	271.2	271.3	269.8	267.7	266.3	265.8	265.1	263.5	260.7	259.4
50	278.6	269.3	261.5	258.8	260.6	264.5	268.2	270.4	270.5	269.1	267.2	266.0	265.3	264.6	263.3	261.6	260.3
51	278.0	268.3	260.3	257.7	259.7	263.6	267.2	269.1	269.2	268.0	266.3	265.1	264.5	263.7	262.6	261.6	260.9
52	277.1	267.1	258.9	256.3	258.4	262.3	265.7	267.4	267.5	266.4	265.0	263.9	263.2	262.4	261.6	261.1	261.1
53	275.6	265.6	257.3	254.6	256.7	260.6	263.7	265.2	265.3	264.5	263.4	262.4	261.5	260.7	260.2	260.4	261.0
54	273.7	263.8	255.6	252.8	254.7	258.5	261.5	262.8	262.8	262.2	261.5	260.5	259.5	258.6	258.5	259.3	260.6
55	271.3	261.8	253.7	250.8	252.5	256.1	258.9	260.0	260.0	259.7	259.2	258.4	257.2	256.3	256.5	257.9	259.8
56	268.6	259.6	251.7	248.7	250.2	253.6	256.1	257.0	257.0	257.0	256.8	256.0	254.6	253.6	254.2	256.3	258.6
57	265.5	257.1	249.6	246.5	247.7	250.9	253.2	253.8	253.9	254.2	254.3	253.5	251.8	250.8	251.7	254.4	257.2
58	262.2	254.6	247.5	244.3	245.3	248.1	250.1	250.6	250.6	251.2	251.7	250.8	248.9	247.9	249.1	252.2	255.5
59	258.7	251.9	245.3	242.1	242.8	245.3	247.0	247.2	247.4	248.3	249.0	248.0	245.9	244.8	246.4	250.0	253.6
60	255.1	249.1	243.1	240.0	240.5	242.6	243.9	243.9	244.2	245.4	246.3	245.2	242.9	241.8	243.5	247.5	251.4
61	251.5	246.4	241.0	238.0	238.2	239.9	240.8	240.6	241.0	242.5	243.6	242.4	239.8	238.7	240.7	245.0	249.1
62	248.0	243.6	238.9	236.1	236.1	237.3	237.8	237.4	237.9	239.7	241.0	239.6	236.8	235.6	237.9	242.4	246.5
63	244.5	240.9	236.8	234.3	234.1	234.9	234.8	234.2	234.8	237.0	238.3	236.8	233.8	232.6	235.0	239.7	243.9
64	241.2	238.2	234.8	232.6	232.2	232.5	232.0	231.1	231.9	234.3	235.8	234.1	230.9	229.7	232.2	237.0	241.0
65	238.1	235.7	232.9	231.0	230.5	230.3	229.2	228.1	229.0	231.6	233.2	231.4	228.0	226.9	229.5	234.2	238.1
66	235.1	233.3	231.0	229.4	228.8	228.1	226.5	225.2	226.1	229.0	230.6	228.7	225.2	224.1	226.8	231.4	235.0
67	232.4	231.0	229.3	228.0	227.2	226.1	223.9	222.3	223.3	226.3	228.0	226.0	222.6	221.5	224.2	228.5	231.9
68	229.8	228.9	227.6	226.5	225.6	224.0	221.3	219.5	220.4	223.5	225.3	223.4	219.9	218.9	221.6	225.7	228.7
69	227.4	226.9	226.0	225.1	224.0	221.9	218.8	216.6	217.5	220.7	222.5	220.7	217.4	216.5	219.0	222.8	225.3
70	225.1	225.0	224.5	223.6	222.2	219.8	216.3	213.8	214.5	217.7	219.6	218.0	214.9	214.0	216.4	219.9	222.0
71	222.9	223.3	223.0	222.0	220.4	217.5	213.7	211.0	211.5	214.5	216.7	215.3	212.4	211.7	213.9	216.9	218.6
72	220.8	221.7	221.6	220.3	218.3	215.2	211.2	208.2	208.4	211.3	213.6	212.6	210.0	209.4	211.4	214.0	215.2
73	218.6	220.1	220.2	218.6	216.0	212.7	208.6	205.4	205.2	208.0	210.4	209.8	207.7	207.1	209.0	211.1	211.8
74	216.5	218.6	218.8	216.6	213.6	210.1	206.1	202.7	202.2	204.7	207.2	207.1	205.4	204.9	206.5	208.2	208.5
75	214.4	217.1	217.4	214.6	211.0	207.5	203.6	200.2	199.3	201.5	204.2	204.5	203.2	202.8	204.1	205.4	205.3
76	212.4	215.6	215.9	212.5	208.3	204.8	201.3	197.9	196.7	198.6	201.4	202.1	201.1	200.7	201.9	202.8	202.4
77	210.6	214.2	214.3	210.4	205.8	202.4	199.3	196.1	194.7	196.3	199.0	200.0	199.2	198.9	199.8	200.4	199.8
78	209.0	212.7	212.6	208.3	203.5	200.4	197.8	195.0	193.6	194.8	197.3	198.4	197.7	197.3	197.9	198.3	197.7
79	208.1	211.2	210.8	206.5	201.9	199.0	196.9	194.9	193.8	194.7	196.7	197.4	196.7	196.2	196.5	196.8	196.3
80	208.2	209.7	208.8	205.1	201.2	198.7	197.2	196.1	195.8	196.6	197.6	197.5	196.4	195.6	195.7	196.0	195.9

OCTOBER

ZONAL MEAN TEMPERATURE (K)

KN LAT =	-80	-70	-60	-50	-40	-30	-20	-10	0	10	20	30	40	50	60	70	80 DEG
18	196.1	208.4	219.3	221.6	216.8	210.8	206.6	204.2	203.3	204.1	206.6	210.2	214.2	218.0	220.6	220.9	219.8
19	192.8	206.1	218.4	221.8	217.5	211.8	208.1	206.1	205.2	205.6	207.5	210.7	214.3	217.7	219.7	219.6	218.1
20	192.5	205.7	218.1	221.9	218.3	213.3	210.1	208.4	207.5	207.7	209.2	211.8	214.9	217.7	219.2	218.6	216.9
21	194.2	206.7	218.3	222.0	219.1	215.0	212.4	210.9	210.2	211.5	213.4	215.7	217.8	218.8	218.0	218.0	215.9
22	197.6	208.7	218.9	222.1	219.9	216.8	214.8	213.6	212.9	213.0	213.9	215.3	216.7	218.1	218.6	217.4	215.1
23	202.2	211.6	219.8	222.3	220.7	218.6	217.3	216.3	215.7	215.8	216.5	217.2	217.7	218.4	218.4	216.8	214.3
24	207.6	215.0	221.1	222.6	221.4	220.3	219.7	219.0	218.5	218.7	219.1	219.1	218.8	218.8	218.3	216.4	213.5
25	213.6	218.9	222.6	223.1	222.2	222.0	222.1	221.7	221.2	221.4	221.6	221.0	219.9	219.2	218.3	215.9	212.7
26	219.9	223.0	224.4	223.7	223.1	223.6	224.3	224.2	223.9	224.1	224.0	222.8	221.0	219.7	218.4	215.5	211.9
27	226.4	227.3	226.4	224.6	224.0	225.2	226.5	226.8	226.6	226.7	226.3	224.6	222.2	220.4	218.5	215.2	211.2
28	232.9	231.6	228.6	225.7	225.1	226.9	228.7	229.2	229.1	229.2	228.5	226.3	223.4	221.2	218.9	215.1	210.7
29	239.3	235.9	231.0	227.1	226.4	228.5	230.8	231.7	231.6	231.6	230.6	228.0	224.7	222.1	219.4	215.1	210.3
30	245.4	240.2	233.6	228.7	227.9	230.3	233.0	234.1	234.1	233.9	232.7	229.7	226.2	223.2	220.1	215.3	210.2
31	251.0	244.3	236.3	230.7	229.7	232.2	235.2	236.5	236.6	236.2	234.7	231.5	227.8	224.6	221.0	215.8	210.3
32	256.3	248.3	239.1	232.8	231.6	234.2	237.5	239.0	239.2	238.6	236.8	233.3	229.5	226.1	222.2	216.5	210.7
33	261.0	252.1	242.0	235.2	233.8	236.4	239.8	241.5	241.7	241.0	238.9	235.3	231.4	227.9	223.6	217.5	211.5
34	265.2	255.6	244.9	237.8	236.2	238.8	242.2	244.1	244.3	243.4	241.0	237.4	233.5	229.8	225.2	218.8	212.6
35	268.9	258.9	247.9	240.6	238.9	241.3	244.8	246.7	247.0	245.8	243.3	239.6	235.8	232.0	227.1	220.4	214.0
36	272.1	261.9	250.9	243.5	241.7	244.0	247.4	249.4	249.6	248.3	245.6	242.0	238.2	234.4	229.3	222.3	215.8
37	274.8	264.7	253.7	246.5	244.6	246.7	250.0	252.1	252.3	250.9	248.1	244.4	240.8	236.9	231.6	224.5	217.9
38	277.1	267.1	256.5	249.5	247.6	249.6	252.7	254.8	255.0	253.5	250.5	247.0	243.4	239.6	234.1	226.8	220.3
39	279.0	269.3	259.2	252.5	250.7	252.4	255.4	257.5	257.7	256.0	253.0	249.6	246.2	242.3	236.6	229.4	223.0
40	280.5	271.2	261.6	255.4	253.7	255.3	258.0	260.0	260.2	258.5	255.5	252.2	248.9	245.0	239.3	232.2	226.0
41	281.6	272.8	263.8	258.2	256.6	258.0	260.5	262.4	262.6	260.9	258.0	254.8	251.7	247.7	242.0	235.0	229.2
42	282.5	274.1	265.7	260.7	259.3	260.6	262.8	264.7	264.9	263.2	260.3	257.3	254.3	250.3	244.6	238.0	232.5
43	283.0	275.0	267.3	262.9	261.8	262.9	264.9	266.6	266.9	265.2	262.4	259.6	256.7	252.8	247.2	240.9	235.9
44	283.2	275.6	268.6	264.8	263.9	264.9	266.7	268.3	268.6	267.0	264.3	261.7	259.0	255.0	249.6	243.7	239.3
45	283.2	276.0	269.5	266.3	265.7	266.6	268.2	269.6	269.9	268.4	266.0	263.5	260.9	257.0	251.7	246.4	242.7
46	282.9	276.0	270.1	267.3	267.1	267.9	269.2	270.6	270.9	269.5	267.3	265.0	262.5	259.6	255.6	248.9	244.0
47	282.3	275.6	270.2	267.9	267.9	268.7	269.9	271.1	271.4	270.2	268.2	266.1	263.6	259.8	255.1	251.2	249.0
48	281.4	275.0	270.0	268.1	268.3	269.0	270.0	271.1	271.5	270.4	268.7	266.8	264.4	260.6	256.3	251.1	251.8
49	280.2	274.1	269.4	267.8	268.2	268.9	269.7	270.7	271.1	270.2	268.7	267.0	264.7	261.0	257.0	254.6	254.2
50	278.8	272.9	268.4	267.1	267.6	268.3	269.0	269.8	270.2	269.5	268.3	266.8	264.4	260.8	257.3	255.8	256.2
51	277.1	271.4	267.2	266.0	266.4	267.3	267.8	268.5	268.9	268.4	267.4	266.1	263.8	260.3	257.2	256.5	257.8
52	275.2	269.7	265.7	264.6	265.1	265.8	266.3	266.8	267.1	266.9	266.1	264.9	262.6	259.3	256.7	256.8	258.9
53	273.1	267.8	263.9	262.8	263.4	264.0	264.3	264.7	265.0	264.9	264.4	263.4	261.1	257.9	255.8	256.7	259.6
54	270.7	265.7	261.9	260.8	261.3	261.9	262.1	262.3	262.5	262.6	262.4	261.5	259.1	256.1	254.6	256.2	259.7
55	268.2	263.5	259.8	258.6	259.0	259.5	259.6	259.6	259.7	260.0	260.1	259.2	256.9	254.0	253.0	255.3	259.5
56	265.5	261.2	257.5	256.2	256.5	257.0	257.0	256.7	256.7	257.1	257.5	256.7	254.4	251.7	251.2	254.1	258.8
57	262.7	258.7	255.2	253.8	253.9	254.4	254.2	253.6	253.5	254.1	254.7	254.0	251.6	249.2	249.1	252.7	257.7
58	259.9	256.2	252.8	251.3	251.3	251.7	251.3	250.4	250.1	250.9	251.8	251.2	248.8	246.5	247.0	251.0	256.3
59	256.9	253.7	250.4	248.8	248.7	249.0	248.4	247.2	246.7	247.7	248.8	248.2	245.8	243.8	244.7	249.2	254.6
60	254.0	251.1	248.1	246.3	246.2	246.3	245.5	243.9	243.2	244.4	245.8	245.3	242.8	241.0	242.4	247.3	252.8
61	251.0	248.6	245.7	243.9	243.6	243.7	242.6	240.6	239.8	241.1	242.7	242.3	239.8	238.3	240.1	245.3	250.8
62	248.0	246.1	243.4	241.6	241.2	241.2	239.7	237.3	236.3	237.8	239.7	239.4	236.9	235.6	237.9	243.2	248.7
63	245.1	243.6	241.2	239.3	238.9	238.7	236.9	234.1	233.0	234.6	236.8	236.5	234.1	233.0	235.7	241.2	246.5
64	242.3	241.2	239.0	237.1	236.6	236.2	234.2	231.0	229.6	231.4	233.9	233.7	231.3	230.5	233.5	239.2	244.3
65	239.5	238.8	236.8	234.9	234.3	233.8	231.4	227.9	226.4	228.4	231.0	230.9	228.7	228.1	231.5	237.3	242.1
66	236.8	236.4	234.7	232.8	232.1	231.4	228.7	224.8	223.3	225.3	228.2	228.2	226.1	225.9	229.6	235.4	239.9
67	234.1	234.1	232.6	230.7	229.9	229.0	226.0	221.8	220.2	222.4	225.5	225.6	223.7	223.8	227.8	233.5	237.8
68	231.5	231.7	230.4	228.6	227.6	226.5	223.2	218.9	217.2	219.5	222.7	223.1	221.4	221.8	226.0	231.7	235.6
69	228.9	229.4	228.3	226.4	225.3	223.9	220.4	216.0	214.4	216.7	220.0	220.5	219.1	219.9	224.3	230.0	233.5
70	226.3	227.0	226.0	224.1	222.8	221.2	217.6	213.2	211.6	214.0	217.3	218.0	216.9	218.1	222.7	228.2	231.4
71	223.6	224.5	223.7	221.7	220.1	218.3	214.6	210.4	208.9	211.3	214.6	215.4	214.8	216.4	221.1	226.4	229.3
72	220.9	222.0	221.3	219.2	217.3	215.2	211.7	207.7	206.4	208.7	211.9	212.9	212.7	214.7	219.6	224.6	227.3
73	218.1	219.3	218.7	216.5	214.3	212.0	208.6	205.1	204.0	206.2	209.2	210.4	210.7	213.1	218.0	222.9	225.3
74	215.1	216.5	216.0	213.7	211.1	208.7	205.7	202.7	201.9	203.8	206.5	207.9	208.7	211.5	216.5	221.2	223.3
75	212.1	213.6	213.2	210.8	207.9	205.4	202.8	200.5	200.0	201.7	204.1	205.5	206.9	210.1	215.1	219.5	221.6
76	209.8	210.5	210.2	207.8	204.8	202.3	200.3	198.7	198.6	200.0	201.9	203.3	205.1	208.7	213.7	218.0	220.1
77	205.5	207.2	207.2	204.8	201.8	199.5	198.1	197.5	197.7	198.7	200.1	201.5	203.6	207.5	212.6	216.8	219.0
78	202.0	203.8	204.1	202.0	199.2	197.3	196.7	197.0	197.6	198.3	198.9	200.1	202.5	206.6	211.7	216.1	218.5
79	198.4	200.4	201.0	199.5	197.2	195.9	194.3	197.6	198.6	198.8	198.7	199.4	201.8	206.1	211.4	216.1	219.0
80	194.9	196.9	198.1	197.4	196.2	196.0	197.5	199.7	201.1	200.9	199.9	199.9	202.0	206.3	211.8	217.1	220.8

NOVEMBER

ZONAL MEAN TEMPERATURE (K)

KM LAT =	-80	-70	-60	-50	-40	-30	-20	-10	0	10	20	30	40	50	60	70	80 DEG
18	226.8	225.9	223.0	217.4	210.5	204.7	201.6	200.7	200.8	201.5	203.6	207.7	212.5	215.5	215.5	213.5	211.7
19	226.3	225.4	222.6	217.5	211.3	206.1	203.4	202.8	202.7	203.0	204.4	207.9	212.1	214.6	213.9	211.4	209.2
20	226.6	225.5	222.7	217.8	212.2	207.8	205.6	205.1	205.0	204.9	206.0	208.8	212.3	214.0	212.8	209.7	207.0
21	227.6	226.3	223.2	218.4	213.3	209.7	208.1	207.7	207.4	207.2	208.0	210.1	212.7	213.6	211.9	208.3	205.0
22	229.0	227.5	224.0	219.1	214.6	211.7	210.6	210.4	210.1	209.8	210.3	211.7	213.3	213.4	211.2	207.1	203.3
23	230.8	229.1	225.2	220.2	216.0	213.9	213.3	213.1	212.8	212.6	212.8	213.5	214.0	213.3	210.6	206.1	201.8
24	232.9	230.9	226.7	221.5	217.7	216.1	216.0	216.0	215.7	215.5	215.3	215.3	214.8	213.3	210.2	205.3	200.7
25	235.2	233.0	228.4	223.1	219.5	218.5	218.8	218.8	218.6	218.4	218.1	217.2	215.6	213.4	209.9	204.8	199.8
26	237.7	235.3	230.4	224.9	221.5	220.9	221.5	221.7	221.5	221.4	220.8	219.1	216.6	213.6	209.7	204.4	199.3
27	240.3	237.7	232.6	227.0	223.8	223.4	224.2	224.6	224.5	224.4	223.5	221.0	217.6	214.0	209.8	204.4	199.1
28	243.0	240.3	235.0	229.4	226.2	226.0	227.0	227.4	227.5	227.4	226.2	223.0	218.7	214.6	210.1	204.6	199.3
29	245.8	242.9	237.6	232.0	228.9	228.7	229.7	230.3	230.5	230.4	228.8	225.0	220.5	215.3	210.6	205.1	199.9
30	248.6	245.6	240.3	234.8	231.7	231.5	232.5	233.1	233.4	233.3	231.4	227.0	221.5	216.3	211.4	205.9	200.9
31	251.4	248.4	243.2	237.8	234.7	234.4	235.3	236.0	236.4	236.2	234.0	229.2	223.1	217.5	212.5	207.1	202.3
32	254.1	251.2	246.1	240.9	237.9	237.4	238.1	238.8	239.3	239.1	236.6	231.4	224.9	219.0	213.8	208.6	204.0
33	256.9	254.0	249.2	244.2	241.2	240.5	241.0	241.6	242.2	241.9	239.2	233.7	226.9	220.8	215.5	210.4	206.2
34	259.7	256.8	252.2	247.6	244.5	243.6	243.9	244.5	245.0	244.6	241.8	236.1	229.1	222.8	217.4	212.6	208.7
35	262.4	259.6	255.3	250.9	248.0	246.8	246.8	247.2	247.8	247.3	244.4	238.6	231.5	225.1	219.7	215.1	211.5
36	265.0	262.3	258.4	254.3	251.4	250.0	249.7	250.0	250.5	250.0	247.0	241.2	234.1	227.6	222.2	217.9	214.7
37	267.5	265.0	261.4	257.7	254.9	253.2	252.5	252.6	253.0	252.5	249.5	243.8	236.8	230.2	225.0	220.9	218.2
38	270.0	267.5	264.2	260.9	258.2	256.3	255.3	255.2	255.5	255.0	252.1	246.5	239.6	233.1	227.9	224.2	221.9
39	272.3	270.0	267.0	264.0	261.4	259.3	258.1	257.7	257.9	257.3	254.5	249.2	242.5	236.0	231.0	227.7	225.8
40	274.5	272.3	269.5	266.9	264.4	262.2	260.6	260.0	260.0	259.5	256.9	251.8	245.3	239.1	234.3	231.3	229.9
41	276.5	274.4	271.9	269.5	267.2	264.9	263.0	262.2	262.0	261.5	259.1	254.4	248.1	242.1	237.5	235.0	234.0
42	278.4	276.3	273.9	271.8	269.6	267.3	265.2	264.1	263.8	263.3	261.2	256.8	250.8	245.0	240.8	238.7	238.1
43	280.0	277.9	275.7	273.8	271.8	269.4	267.1	265.8	265.4	265.0	263.1	259.0	253.4	247.8	244.0	242.3	242.2
44	281.4	279.3	277.2	275.4	273.5	271.1	268.7	267.2	266.7	266.3	264.7	260.9	255.6	250.4	247.0	245.8	246.1
45	282.5	280.4	278.3	276.6	274.8	272.5	270.0	268.2	267.7	267.4	266.0	262.6	257.6	252.8	249.7	249.0	249.7
46	283.4	281.2	279.1	277.4	275.7	273.4	270.8	269.0	268.4	268.2	267.1	263.9	259.2	254.7	252.2	252.0	253.0
47	283.9	281.6	279.4	277.8	276.2	273.9	271.3	269.4	268.8	268.7	267.7	264.8	260.4	256.4	254.3	254.6	256.0
48	284.1	281.7	279.4	277.7	276.1	273.9	271.4	269.4	268.8	268.9	268.0	265.3	261.2	257.5	256.0	256.7	258.4
49	284.0	281.5	279.0	277.2	275.7	273.6	271.0	269.1	268.5	268.7	267.9	265.3	261.5	258.3	257.2	258.4	260.4
50	283.6	280.9	278.2	276.3	274.8	272.7	270.3	268.4	267.9	268.1	267.4	264.9	261.3	258.6	258.0	259.6	261.7
51	282.8	279.9	277.0	275.0	273.5	271.5	269.2	267.4	266.9	267.2	266.6	264.1	260.7	258.4	258.3	260.3	262.6
52	281.7	278.6	275.5	273.4	271.8	269.9	267.7	266.0	265.6	266.0	265.3	262.9	259.7	257.8	258.2	260.4	262.8
53	280.2	277.0	273.7	271.4	269.8	268.0	265.9	264.3	264.0	264.4	263.8	261.3	258.3	256.8	257.6	260.1	262.6
54	278.4	275.0	271.5	269.1	267.5	265.8	263.8	262.3	262.1	262.5	261.8	259.4	256.6	255.4	256.6	259.4	261.8
55	276.3	272.8	269.1	266.6	265.0	263.4	261.4	260.0	259.9	260.3	259.7	257.3	254.6	253.8	255.3	258.2	260.6
56	273.9	270.3	266.5	263.8	262.2	260.7	258.9	257.5	257.4	257.9	257.2	254.9	252.4	251.9	253.8	256.7	259.0
57	271.3	267.6	263.7	260.9	259.3	258.0	256.2	254.8	254.7	255.2	254.6	252.3	250.0	249.8	252.0	255.0	257.1
58	268.4	264.7	260.7	257.8	256.3	255.1	253.4	252.0	251.8	252.3	251.7	249.4	247.5	247.6	250.0	253.0	255.0
59	265.3	261.6	257.6	254.7	253.2	252.1	250.5	249.0	248.7	249.2	248.8	246.8	245.0	245.4	248.0	251.0	252.7
60	262.1	258.4	254.3	251.4	250.0	249.1	247.5	245.9	245.5	246.0	245.8	244.1	242.5	243.1	245.9	248.8	250.3
61	258.7	255.2	251.0	248.1	246.8	246.0	244.5	242.7	242.1	242.6	242.7	241.3	240.0	240.9	243.8	246.6	247.9
62	255.2	251.8	247.7	244.8	243.6	243.0	241.5	239.5	238.7	239.2	239.5	238.5	237.6	238.7	241.8	244.5	245.5
63	251.6	248.4	244.3	241.4	240.3	239.9	238.4	236.3	235.2	235.8	236.4	235.8	235.2	236.6	239.8	242.4	243.1
64	247.9	244.9	241.0	238.0	237.1	236.8	235.4	233.0	231.7	232.3	233.3	233.1	233.0	234.7	237.9	240.4	240.8
65	244.2	241.4	237.6	234.7	233.8	233.8	232.3	229.7	228.1	228.8	230.2	230.5	230.8	232.8	236.2	238.5	238.7
66	240.4	237.9	234.3	231.4	230.6	230.6	229.2	226.4	224.6	225.3	227.1	228.0	228.7	231.0	234.5	236.7	236.6
67	236.6	234.4	230.9	228.0	227.3	227.5	226.2	223.1	221.2	221.9	224.1	225.5	226.7	229.3	232.9	235.0	234.7
68	232.7	230.9	227.6	224.7	224.0	224.3	223.0	219.9	217.8	218.6	221.1	223.1	224.8	227.7	231.4	233.4	232.9
69	228.8	227.3	224.2	221.4	220.7	221.1	219.9	216.8	214.6	215.4	218.2	220.7	222.8	226.1	229.9	231.9	231.3
70	224.8	223.7	220.9	218.1	217.4	217.8	216.7	213.7	211.5	212.4	215.3	218.3	220.9	224.5	228.5	230.5	229.8
71	220.7	220.0	217.5	214.8	214.0	214.5	213.5	210.7	208.6	209.5	212.6	215.9	219.0	222.9	227.1	229.1	228.4
72	216.6	216.3	214.1	211.6	210.7	211.1	210.4	207.9	205.9	206.8	209.9	213.5	217.0	221.3	225.6	227.7	227.1
73	212.4	212.4	210.7	208.3	207.3	207.7	207.3	205.2	203.5	204.4	207.4	211.1	215.1	219.7	224.1	226.3	225.9
74	208.0	208.4	207.1	205.0	204.0	204.4	204.3	202.8	201.5	202.2	205.1	208.9	213.1	218.0	222.7	225.0	224.8
75	203.4	204.2	203.4	201.6	200.7	201.2	201.5	200.7	199.9	200.5	203.0	206.7	211.2	216.4	221.2	223.8	223.9
76	198.7	199.7	199.5	198.3	197.6	198.2	199.0	199.1	198.7	199.3	201.3	204.7	209.4	214.9	219.8	222.7	223.2
77	193.7	195.1	195.5	194.9	194.6	195.5	197.0	198.0	198.2	198.6	200.1	203.1	207.9	213.5	218.7	221.8	222.8
78	188.5	190.2	191.3	191.5	191.9	193.4	195.7	197.7	198.5	198.7	199.5	202.1	206.7	212.6	217.9	221.3	222.8
79	183.0	184.9	186.8	188.2	189.6	191.9	195.3	198.4	199.8	199.7	199.7	201.8	206.3	212.3	217.8	221.5	223.3
80	177.3	179.4	182.1	184.8	187.7	191.5	196.2	200.3	202.3	201.9	201.2	202.6	206.9	212.9	218.6	222.7	224.8

DECEMBER

ZONAL MEAN TEMPERATURE (K)

KN LAT =	-80	-70	-60	-50	-40	-30	-20	-10	0	10	20	30	40	50	60	70	80 DEG
18	232.7	230.4	225.5	218.0	209.6	203.0	199.9	199.6	200.4	201.2	202.9	206.8	211.8	214.8	213.0	207.6	202.2
19	233.0	230.6	225.8	218.7	211.2	205.4	202.6	202.3	202.5	202.6	203.7	206.9	211.3	213.8	211.4	205.1	199.0
20	233.6	231.1	226.3	219.6	212.8	207.7	205.3	204.8	204.7	204.4	205.0	207.7	211.6	213.5	210.4	203.3	196.4
21	234.5	231.8	227.1	220.7	214.4	210.0	207.9	207.4	207.0	206.5	206.8	209.0	212.4	213.6	209.9	202.0	194.5
22	235.5	232.8	228.1	222.0	216.2	212.3	210.4	209.9	209.4	208.7	208.9	210.7	213.4	214.0	209.6	201.2	193.3
23	236.7	234.0	229.4	223.5	218.2	214.6	213.0	212.5	211.9	211.2	211.2	212.6	214.6	214.4	209.5	200.8	192.6
24	238.1	235.5	230.9	225.3	220.3	217.1	215.6	215.0	214.5	213.9	213.7	214.7	215.8	214.9	209.5	200.7	192.6
25	239.6	237.1	232.6	227.2	222.5	219.6	218.2	217.6	217.2	216.6	216.4	216.8	217.1	215.3	209.6	200.9	193.0
26	241.3	238.9	234.6	229.4	225.0	222.2	220.9	220.3	219.9	219.5	219.2	219.0	218.4	215.8	209.8	201.4	193.9
27	243.2	240.8	236.7	231.8	227.6	224.9	223.6	223.0	222.7	222.4	222.0	221.3	219.7	216.3	210.1	202.1	195.3
28	245.1	243.0	239.1	234.4	230.3	227.7	226.4	225.7	225.5	225.4	224.9	223.6	221.1	216.8	210.6	203.2	197.0
29	247.2	245.2	241.6	237.1	233.2	230.6	229.2	228.5	228.4	228.4	227.8	226.0	222.5	217.4	211.2	204.5	199.1
30	249.4	247.6	244.2	240.0	236.1	233.5	232.0	231.3	231.2	231.4	230.8	228.4	224.0	218.2	211.9	206.0	201.6
31	251.7	250.1	247.0	242.9	239.2	236.6	234.9	234.1	234.0	234.4	233.7	230.8	225.6	219.2	212.9	207.8	204.3
32	254.1	252.7	249.8	246.0	242.4	239.6	237.8	236.9	236.9	237.3	236.6	233.3	227.3	220.3	214.2	209.8	207.2
33	256.5	255.4	252.7	249.1	245.6	242.7	240.8	239.7	239.6	240.2	239.5	235.9	229.2	221.7	215.6	212.0	210.4
34	259.1	258.1	255.7	252.3	248.7	245.8	243.7	242.4	242.3	243.0	242.4	238.5	231.3	223.3	217.3	214.4	213.7
35	261.6	260.8	258.6	255.4	251.9	248.9	246.6	245.1	245.0	245.7	245.2	241.2	233.5	225.2	219.3	217.0	217.2
36	264.2	263.5	261.6	258.5	255.0	251.9	249.4	247.7	247.5	248.3	248.0	243.9	235.9	227.3	221.5	219.8	220.7
37	266.8	266.2	264.4	261.4	258.1	254.9	252.1	250.3	250.0	250.8	250.6	246.5	238.4	229.6	223.9	222.7	224.3
38	269.4	268.9	267.2	264.3	261.0	257.7	254.8	252.7	252.3	253.2	253.2	249.2	241.0	232.0	226.5	225.8	227.9
39	271.9	271.5	269.9	267.0	263.7	260.4	257.3	255.1	254.5	255.5	255.6	251.8	243.6	234.7	229.2	228.9	231.5
40	274.4	274.0	272.4	269.6	266.3	262.9	259.7	257.2	256.6	257.6	257.9	254.3	246.3	237.4	232.1	232.0	235.0
41	276.7	276.3	274.7	271.9	268.6	265.2	261.9	259.3	258.5	259.5	260.0	256.7	248.8	240.1	235.1	235.2	238.4
42	279.0	278.5	276.7	273.9	270.7	267.3	263.9	261.1	260.2	261.2	261.9	258.8	251.3	242.9	238.0	238.4	241.6
43	281.0	280.4	278.6	275.7	272.5	269.2	265.7	262.8	261.8	262.8	263.6	260.8	253.5	245.5	240.9	241.4	244.7
44	282.9	282.1	280.1	277.2	274.0	270.7	267.2	264.2	263.1	264.2	265.0	262.4	255.5	247.9	243.7	244.4	247.6
45	284.5	283.6	281.4	278.3	275.1	271.9	268.5	265.5	264.3	265.3	266.2	263.7	257.2	250.1	246.4	247.1	250.2
46	285.9	284.8	282.4	279.1	276.0	272.9	269.5	266.4	265.3	266.2	267.1	264.6	258.5	252.0	248.8	249.7	252.6
47	287.0	285.7	283.0	279.6	276.4	273.4	270.1	267.2	266.0	266.9	267.6	265.1	259.3	253.5	250.9	252.0	254.7
48	287.8	286.2	283.2	279.7	276.6	273.7	270.5	267.6	266.5	267.4	267.9	265.2	259.7	254.6	252.7	254.0	256.5
49	288.3	286.4	283.1	279.4	276.3	273.6	270.5	267.8	266.8	267.6	267.8	264.9	259.7	255.3	254.1	255.6	258.0
50	288.4	286.3	282.7	278.8	275.7	273.1	270.2	267.7	266.8	267.6	267.4	264.2	259.2	255.5	255.1	257.0	259.1
51	288.2	285.8	281.9	277.8	274.7	272.3	269.6	267.3	266.6	267.2	266.7	263.1	258.2	255.3	255.6	257.9	260.0
52	287.5	284.9	280.7	276.5	273.4	271.1	268.6	266.6	266.1	266.6	265.7	261.7	256.9	254.7	255.8	258.5	260.5
53	286.5	283.7	279.2	274.8	271.8	269.6	267.4	265.5	265.3	265.7	264.3	259.9	255.2	253.6	255.6	258.7	260.6
54	285.2	282.1	277.4	273.2	269.8	267.7	265.7	264.2	264.2	264.6	262.7	257.9	253.2	252.3	255.0	258.6	260.4
55	283.4	280.1	275.3	270.6	267.5	265.6	263.8	262.6	262.8	263.1	260.9	255.6	251.0	250.6	254.1	258.1	259.9
56	281.3	277.9	272.8	268.0	264.9	263.1	261.6	260.7	261.1	261.4	258.8	253.2	248.6	248.7	252.9	257.3	259.1
57	278.8	275.3	270.1	265.2	262.1	260.4	259.2	258.5	259.1	259.3	256.4	250.6	246.2	246.7	251.5	256.2	258.0
58	276.0	272.4	267.1	262.1	259.0	257.5	256.4	256.1	256.8	257.0	253.9	247.9	243.6	244.7	249.9	254.9	256.6
59	272.9	269.3	263.9	258.9	255.8	254.3	253.5	253.4	254.2	254.4	251.2	245.2	241.1	242.6	248.2	253.3	255.0
60	269.6	265.9	260.5	255.4	252.3	251.0	250.3	250.4	251.4	251.6	248.3	242.5	238.7	240.5	246.4	251.6	253.2
61	265.9	262.3	256.9	251.8	248.7	247.4	247.0	247.3	248.3	248.5	245.4	239.8	236.4	238.5	244.6	249.8	251.3
62	262.0	258.5	253.1	248.0	244.9	243.8	243.6	243.9	245.0	245.2	242.3	237.1	234.2	236.6	242.8	247.8	249.2
63	257.9	254.5	249.2	244.1	241.0	240.1	240.0	240.4	241.5	241.7	239.1	234.5	232.1	234.8	241.0	245.8	246.9
64	253.6	250.3	245.1	240.1	237.1	236.3	236.3	236.8	237.8	238.0	235.8	231.9	230.2	233.2	239.2	243.8	244.7
65	249.1	246.0	240.9	236.0	233.1	232.4	232.7	233.2	234.0	234.2	232.5	229.4	228.4	231.6	237.6	241.8	242.4
66	244.4	241.5	236.7	231.8	229.1	228.5	228.9	229.4	230.1	230.3	229.1	226.9	226.7	230.2	236.0	239.8	240.1
67	239.7	236.9	232.3	227.7	225.1	224.7	225.3	225.7	226.2	226.4	225.7	224.5	225.1	228.9	234.4	237.8	238.0
68	234.8	232.3	227.9	223.5	221.0	220.9	221.6	222.0	222.2	222.5	222.3	222.1	223.5	227.6	232.9	235.9	235.9
69	229.7	227.5	223.4	219.3	217.1	217.2	218.1	218.4	218.4	218.6	218.9	219.7	222.0	226.4	231.4	234.0	233.9
70	224.6	222.6	218.9	215.1	213.2	213.6	214.6	214.9	214.6	214.8	215.6	217.3	220.4	225.1	229.8	232.3	232.1
71	219.4	217.7	214.3	210.9	209.4	210.1	211.3	211.6	211.1	211.1	212.4	214.9	218.7	223.7	228.3	230.6	230.5
72	214.0	212.6	209.7	206.8	205.7	206.8	208.2	208.4	207.7	207.7	209.2	212.5	217.0	222.2	226.8	229.0	229.2
73	208.6	207.5	205.1	202.7	202.1	203.6	205.3	205.6	204.7	204.5	206.3	210.1	215.2	220.7	225.2	227.6	228.0
74	203.1	202.2	200.4	198.6	198.7	200.6	202.7	203.0	202.0	201.7	203.5	207.7	213.3	219.0	223.5	226.2	227.1
75	197.5	196.9	195.6	194.7	195.4	197.9	200.3	200.8	199.8	199.3	201.1	205.5	211.4	217.3	222.0	225.0	226.4
76	191.8	191.5	190.9	190.8	192.3	195.4	198.3	199.1	198.1	197.4	199.1	203.5	209.6	215.6	220.5	223.9	226.0
77	186.0	185.9	186.0	187.0	189.5	193.2	196.6	197.8	197.0	196.2	197.6	201.9	208.0	214.1	219.2	223.0	225.6
78	180.1	180.3	181.2	183.2	186.8	191.4	195.4	197.1	196.6	195.7	196.8	200.8	206.9	213.1	218.3	222.4	225.3
79	174.1	174.6	176.2	179.5	184.3	189.8	194.6	197.1	197.1	196.2	196.8	200.5	206.5	212.8	218.1	222.1	225.0
80	168.0	168.7	171.3	175.9	182.1	188.7	194.4	197.9	198.7	197.8	198.0	201.3	207.3	213.8	218.9	222.3	224.5

JANUARY

ZONAL MEAN PRESSURE (MB)

NH LAT	-80	-70	-60	-50	-40	-30	-20	-10	0	10	20	30	40	50	60	70	80 DEG
18	7.455	7.465	7.523	7.639	7.766	7.840	7.841	7.813	7.810	7.815	7.758	7.593	7.348	7.083	6.827	6.590	6.408
19	6.439	6.443	6.479	6.550	6.624	6.657	6.641	6.613	6.608	6.614	6.576	6.458	6.272	6.053	5.818	5.585	5.402
20	5.563	5.563	5.582	5.621	5.658	5.664	5.638	5.608	5.601	5.604	5.579	5.495	5.355	5.172	4.956	4.729	4.547
21	4.808	4.805	4.812	4.828	4.839	4.828	4.796	4.765	4.755	4.756	4.739	4.681	4.575	4.422	4.223	4.003	3.825
22	4.158	4.153	4.151	4.151	4.145	4.122	4.087	4.056	4.044	4.043	4.032	3.992	3.913	3.783	3.600	3.390	3.219
23	3.599	3.592	3.584	3.573	3.556	3.526	3.489	3.459	3.446	3.443	3.437	3.410	3.350	3.239	3.071	2.874	2.712
24	3.117	3.109	3.097	3.079	3.054	3.020	2.983	2.955	2.941	2.939	2.935	2.918	2.871	2.776	2.623	2.440	2.289
25	2.703	2.694	2.679	2.657	2.627	2.591	2.555	2.528	2.515	2.513	2.511	2.500	2.464	2.381	2.243	2.074	1.935
26	2.346	2.337	2.320	2.295	2.263	2.227	2.192	2.167	2.155	2.153	2.153	2.145	2.116	2.044	1.920	1.767	1.640
27	2.038	2.029	2.012	1.986	1.952	1.916	1.884	1.861	1.850	1.848	1.848	1.843	1.819	1.757	1.645	1.507	1.394
28	1.772	1.764	1.747	1.720	1.687	1.652	1.621	1.600	1.590	1.589	1.590	1.586	1.566	1.511	1.412	1.289	1.187
29	1.543	1.535	1.519	1.492	1.460	1.426	1.397	1.378	1.370	1.369	1.370	1.366	1.348	1.300	1.213	1.104	1.014
30	1.345	1.338	1.322	1.294	1.265	1.233	1.207	1.189	1.181	1.181	1.182	1.179	1.163	1.120	1.043	0.947	0.868
31	1.174	1.167	1.152	1.128	1.098	1.068	1.043	1.027	1.021	1.021	1.022	1.018	1.003	0.966	0.898	0.815	0.745
32	1.026	1.020	1.006	0.983	0.955	0.927	0.904	0.889	0.884	0.884	0.884	0.880	0.867	0.833	0.775	0.702	0.641
33	0.8973	0.8924	0.8793	0.8576	0.8312	0.8051	0.7840	0.7608	0.7460	0.7463	0.7464	0.7423	0.7291	0.6991	0.6533	0.5921	0.541
34	0.7861	0.7817	0.7697	0.7494	0.7248	0.7007	0.6812	0.6622	0.6500	0.6500	0.6500	0.6469	0.6348	0.6148	0.5785	0.5230	0.467
35	0.6896	0.6857	0.6747	0.6559	0.6330	0.6107	0.5928	0.5819	0.5783	0.5788	0.5788	0.5738	0.5624	0.5394	0.5008	0.4524	0.4123
36	0.6057	0.6023	0.5922	0.5748	0.5536	0.5331	0.5167	0.5068	0.5036	0.5042	0.5037	0.4989	0.4881	0.4677	0.4341	0.3923	0.3572
37	0.5327	0.5298	0.5205	0.5044	0.4849	0.4660	0.4510	0.4420	0.4392	0.4398	0.4392	0.4344	0.4243	0.4040	0.3747	0.3404	0.3098
38	0.4691	0.4666	0.4581	0.4433	0.4253	0.4080	0.3942	0.3860	0.3836	0.3842	0.3835	0.3788	0.3693	0.3530	0.3274	0.2957	0.2691
39	0.4137	0.4114	0.4036	0.3900	0.3735	0.3577	0.3451	0.3376	0.3365	0.3361	0.3354	0.3308	0.3219	0.3073	0.2848	0.2572	0.2340
40	0.3632	0.3632	0.361	0.3435	0.3284	0.3139	0.3025	0.2957	0.2938	0.2944	0.2937	0.2893	0.2810	0.2678	0.2480	0.2239	0.2036
41	0.3228	0.3210	0.3145	0.3030	0.2891	0.2759	0.2655	0.2593	0.2576	0.2582	0.2575	0.2533	0.2456	0.2337	0.2163	0.1951	0.1774
42	0.2857	0.2840	0.2780	0.2674	0.2547	0.2427	0.2332	0.2277	0.2262	0.2268	0.2261	0.2222	0.2149	0.2042	0.1887	0.1702	0.1544
43	0.2530	0.2515	0.2460	0.2363	0.2247	0.2137	0.2051	0.2001	0.1988	0.1993	0.1987	0.1950	0.1883	0.1786	0.1649	0.1486	0.1349
44	0.2244	0.2229	0.2178	0.2089	0.1983	0.1884	0.1806	0.1760	0.1748	0.1754	0.1749	0.1714	0.1652	0.1563	0.1441	0.1298	0.1178
45	0.1991	0.1978	0.1930	0.1848	0.1752	0.1662	0.1591	0.1550	0.1540	0.1545	0.1540	0.1508	0.1450	0.1370	0.1261	0.1134	0.1029
46	0.1768	0.1755	0.1711	0.1636	0.1548	0.1467	0.1403	0.1366	0.1357	0.1362	0.1358	0.1327	0.1274	0.1201	0.1104	0.0992	0.0899
47	0.1571	0.1559	0.1518	0.1449	0.1369	0.1295	0.1238	0.1204	0.1196	0.1201	0.1197	0.1169	0.1120	0.1053	0.0966	0.0868	0.0787
48	0.1396	0.1385	0.1347	0.1283	0.1211	0.1144	0.1092	0.1062	0.1055	0.1060	0.1056	0.1030	0.0984	0.0923	0.0846	0.0759	0.0688
49	0.1242	0.1230	0.1195	0.1137	0.1071	0.1010	0.0964	0.0937	0.0932	0.0936	0.0932	0.0908	0.0865	0.0810	0.0741	0.0665	0.0603
50	0.1104	0.1093	0.1061	0.1007	0.947	0.893	0.851	0.827	0.822	0.827	0.822	0.800	0.760	0.710	0.649	0.582	0.528
51	0.9823	0.9717	0.9409	0.917	0.870	0.830	0.783	0.7514	0.7304	0.7261	0.7299	0.7260	0.7045	0.679	0.622	0.561	0.509
52	0.8735	0.8633	0.8346	0.8094	0.7797	0.7460	0.7132	0.6847	0.6611	0.6444	0.6405	0.6201	0.5863	0.5450	0.4972	0.4444	0.3956
53	0.7766	0.7668	0.7399	0.7084	0.6733	0.6341	0.5951	0.5609	0.5359	0.5188	0.5147	0.4945	0.4585	0.4142	0.3649	0.3108	0.2618
54	0.6902	0.6807	0.6536	0.6174	0.5766	0.5315	0.4918	0.4593	0.4343	0.4176	0.4135	0.3933	0.3563	0.3119	0.2619	0.2074	0.1584
55	0.6130	0.6039	0.5805	0.5454	0.5084	0.4711	0.4344	0.4004	0.3704	0.3454	0.3313	0.3111	0.2741	0.2319	0.1849	0.1334	0.0874
56	0.5441	0.5353	0.5135	0.4812	0.4478	0.4199	0.3927	0.3697	0.3501	0.3349	0.3233	0.3031	0.2661	0.2249	0.1799	0.1314	0.0894
57	0.4825	0.4741	0.4537	0.4241	0.3939	0.3691	0.3451	0.3239	0.3061	0.2919	0.2803	0.2601	0.2231	0.1819	0.1369	0.0894	0.0494
58	0.4275	0.4194	0.4004	0.3733	0.3460	0.3240	0.3091	0.2916	0.2760	0.2633	0.2523	0.2321	0.1951	0.1539	0.1089	0.0614	0.0214
59	0.3782	0.3706	0.3529	0.3281	0.3034	0.2840	0.2711	0.2648	0.2642	0.2649	0.2640	0.2644	0.2578	0.2509	0.2414	0.2314	0.2214
60	0.3343	0.3270	0.3106	0.2878	0.2656	0.2485	0.2374	0.2323	0.2319	0.2323	0.2325	0.2318	0.2259	0.2184	0.2104	0.2014	0.1914
61	0.2950	0.2881	0.2729	0.2521	0.2321	0.2170	0.2076	0.2034	0.2032	0.2034	0.2037	0.2031	0.1971	0.1901	0.1821	0.1731	0.1631
62	0.2599	0.2534	0.2394	0.2204	0.2024	0.1892	0.1812	0.1778	0.1778	0.1778	0.1778	0.1732	0.1674	0.1607	0.1527	0.1437	0.1337
63	0.2285	0.2225	0.2096	0.1923	0.1761	0.1646	0.1578	0.1551	0.1552	0.1551	0.1508	0.1409	0.1286	0.1174	0.1084	0.1004	0.0940
64	0.2006	0.1950	0.1831	0.1674	0.1530	0.1429	0.1372	0.1351	0.1353	0.1351	0.1310	0.1220	0.1111	0.1016	0.0939	0.0872	0.0819
65	0.1757	0.1705	0.1596	0.1453	0.1325	0.1238	0.1190	0.1174	0.1177	0.1175	0.1137	0.1056	0.0959	0.0874	0.0811	0.0756	0.0713
66	0.1535	0.1488	0.1388	0.1259	0.1145	0.1049	0.1030	0.1019	0.1022	0.1019	0.0984	0.0912	0.0827	0.0756	0.0701	0.0655	0.0619
67	0.1338	0.1294	0.1204	0.1088	0.987	0.922	0.890	0.881	0.885	0.882	0.851	0.787	0.713	0.651	0.605	0.567	0.537
68	0.1163	0.1123	0.1042	0.938	0.849	0.793	0.767	0.761	0.765	0.762	0.734	0.678	0.614	0.561	0.522	0.490	0.465
69	0.1008	0.972	0.898	0.807	0.729	0.681	0.659	0.655	0.659	0.657	0.632	0.583	0.528	0.483	0.450	0.423	0.402
70	0.8712	0.8385	0.7727	0.6915	0.6236	0.5829	0.5657	0.5631	0.5665	0.5644	0.5432	0.5014	0.4538	0.4133	0.3876	0.3652	0.3474
71	0.7500	0.7208	0.6625	0.5911	0.5324	0.4981	0.4843	0.4826	0.4858	0.4840	0.4659	0.4303	0.3898	0.3571	0.3338	0.3148	0.2997
72	0.6433	0.6174	0.5660	0.5038	0.4534	0.4247	0.4136	0.4127	0.4154	0.4140	0.3988	0.3687	0.3345	0.3069	0.2873	0.2712	0.2583
73	0.5495	0.5267	0.4818	0.4280	0.3852	0.3613	0.3526	0.3520	0.3544	0.3532	0.3407	0.3155	0.2868	0.2636	0.2472	0.2336	0.2225
74	0.4673	0.4474	0.4086	0.3626	0.3264	0.3068	0.3000	0.2994	0.3015	0.3006	0.2904	0.2696	0.2456	0.2263	0.2126	0.2010	0.1915
75	0.3955	0.3784	0.3451	0.3061	0.2760	0.2601	0.2547	0.2545	0.2559	0.2553	0.2471	0.2300	0.2101	0.1941	0.1827	0.1730	0.1648
76	0.3330	0.3184	0.2903	0.2576	0.2328	0.2201	0.2160	0.2157	0.2168	0.2163	0.2098	0.1959	0.1795	0.1664	0.1570	0.1489	0.1418
77	0.2790	0.2666	0.2430	0.2160	0.1960	0.1829	0.1824	0.1833	0.1830	0.1830	0.1779	0.1666	0.1532	0.1425	0.1349	0.1281	0.1220
78	0.2324	0.2220	0.2025	0.1805	0.1646	0.1570	0.1547	0.1544	0.1548	0.1546	0.1506	0.1415	0.1306	0.1220	0.1159	0.1102	0.1049
79	0.1924	0.1838	0.1679	0.1503	0.1379	0.1323	0.1308	0.1304	0.1306	0.1305	0.1274	0.1201	0.1113	0.1044	0.995	0.948	0.903
80	0.1584	0.1513	0.1385	0.1247	0.1153	0.1114</											

FEBRUARY

ZONAL MEAN PRESSURE (MB)

KN LAT =	-80	-70	-60	-50	-40	-30	-20	-10	0	10	20	30	40	50	60	70	80 DEG
18	7.263	7.349	7.505	7.695	7.841	7.887	7.859	7.834	7.853	7.871	7.809	7.633	7.384	7.112	6.842	6.586	6.390 + 1
19	6.262	6.330	6.451	6.592	6.689	6.701	6.657	6.625	6.635	6.652	6.612	6.487	6.301	6.085	5.849	5.613	5.426
20	5.398	5.452	5.546	5.650	5.712	5.702	5.649	5.611	5.613	5.627	5.601	5.515	5.378	5.204	5.000	4.779	4.600
21	4.655	4.697	4.769	4.846	4.883	4.859	4.802	4.761	4.757	4.767	4.752	4.692	4.593	4.455	4.274	4.049	3.900
22	4.015	4.049	4.104	4.160	4.179	4.147	4.089	4.047	4.040	4.047	4.038	3.998	3.925	3.814	3.654	3.466	3.308
23	3.464	3.492	3.533	3.574	3.581	3.545	3.489	3.448	3.438	3.443	3.438	3.411	3.357	3.266	3.126	2.954	2.809
24	2.991	3.014	3.047	3.074	3.072	3.035	2.982	2.943	2.932	2.936	2.934	2.915	2.874	2.798	2.675	2.521	2.389
25	2.585	2.604	2.629	2.647	2.639	2.603	2.554	2.518	2.506	2.509	2.509	2.495	2.462	2.398	2.290	2.154	2.036
26	2.235	2.251	2.271	2.282	2.271	2.236	2.191	2.158	2.147	2.150	2.151	2.140	2.111	2.056	1.962	1.842	1.738
27	1.934	1.949	1.964	1.970	1.956	1.923	1.883	1.853	1.842	1.845	1.847	1.837	1.812	1.744	1.683	1.578	1.484
28	1.676	1.689	1.701	1.702	1.688	1.657	1.621	1.594	1.584	1.588	1.589	1.580	1.557	1.514	1.444	1.353	1.273
29	1.453	1.465	1.474	1.473	1.458	1.431	1.398	1.373	1.365	1.368	1.370	1.361	1.339	1.301	1.239	1.161	1.092
30	1.262	1.272	1.280	1.277	1.262	1.237	1.208	1.186	1.178	1.182	1.183	1.174	1.153	1.118	1.065	0.997	0.938
31	1.097	1.106	1.112	1.108	1.094	1.071	1.045	1.025	1.019	1.022	1.024	1.015	0.994	0.962	0.916	0.858	0.806
32	9.546	9.634	9.677	9.629	9.492	9.288	9.058	8.802	8.625	8.660	8.673	8.778	8.577	8.288	7.885	7.384	6.940 + 0
33	8.319	8.399	8.432	8.379	8.251	8.068	7.864	7.707	7.657	7.691	7.702	7.607	7.412	7.148	6.794	6.361	5.978
34	7.259	7.331	7.358	7.303	7.183	7.020	6.838	6.698	6.656	6.688	6.694	6.602	6.415	6.172	5.860	5.485	5.154
35	6.342	6.408	6.429	6.374	6.263	6.117	5.956	5.832	5.795	5.826	5.831	5.738	5.560	5.356	5.061	4.734	4.446
36	5.549	5.608	5.624	5.571	5.469	5.338	5.195	5.085	5.054	5.083	5.086	4.996	4.827	4.621	4.375	4.089	3.837
37	4.861	4.915	4.927	4.876	4.783	4.665	4.539	4.442	4.415	4.442	4.443	4.356	4.197	4.007	3.787	3.535	3.314
38	4.264	4.312	4.322	4.274	4.188	4.083	3.971	3.886	3.863	3.888	3.887	3.804	3.655	3.480	3.282	3.058	2.865
39	3.745	3.789	3.796	3.751	3.673	3.578	3.479	3.404	3.386	3.408	3.405	3.327	3.189	3.027	2.847	2.649	2.478
40	3.294	3.332	3.338	3.296	3.225	3.140	3.052	2.987	2.972	2.992	2.988	2.915	2.786	2.637	2.474	2.294	2.145
41	2.900	2.934	2.939	2.900	2.835	2.758	2.681	2.625	2.612	2.630	2.625	2.557	2.437	2.300	2.152	1.993	1.859
42	2.556	2.586	2.590	2.555	2.495	2.426	2.357	2.309	2.300	2.316	2.309	2.245	2.136	2.009	1.874	1.731	1.612
43	2.255	2.282	2.285	2.252	2.198	2.135	2.075	2.034	2.027	2.041	2.034	1.974	1.873	1.757	1.633	1.505	1.400
44	1.991	2.015	2.017	1.988	1.938	1.881	1.828	1.793	1.788	1.801	1.793	1.738	1.645	1.538	1.425	1.310	1.217
45	1.760	1.780	1.782	1.755	1.710	1.658	1.612	1.582	1.579	1.591	1.582	1.531	1.446	1.348	1.245	1.142	1.059
46	1.556	1.574	1.576	1.551	1.509	1.463	1.422	1.397	1.396	1.406	1.397	1.350	1.272	1.182	1.088	0.996	0.924
47	1.377	1.393	1.394	1.371	1.333	1.291	1.255	1.234	1.234	1.243	1.234	1.190	1.119	1.037	0.952	0.870	0.806
48	1.219	1.233	1.233	1.212	1.177	1.139	1.108	1.091	1.092	1.100	1.091	1.050	0.984	0.910	0.833	0.760	0.705
49	1.079	1.091	1.091	1.072	1.040	1.005	0.978	0.964	0.966	0.973	0.964	0.926	0.866	0.798	0.730	0.665	0.617
50	9.559	9.660	9.653	9.474	9.181	8.873	8.632	8.519	8.546	8.608	8.519	8.168	7.620	7.004	6.392	5.827	5.407 - 1
51	8.466	8.552	8.540	8.372	8.105	7.828	7.618	7.527	7.558	7.613	7.525	7.200	6.699	6.142	5.599	5.107	4.745
52	7.498	7.569	7.552	7.395	7.151	6.903	6.721	6.648	6.682	6.730	6.644	6.342	5.885	5.384	4.904	4.478	4.169
53	6.639	6.697	6.674	6.528	6.305	6.084	5.926	5.868	5.903	5.945	5.861	5.582	5.165	4.715	4.294	3.928	3.667
54	5.876	5.923	5.895	5.757	5.555	5.358	5.221	5.176	5.211	5.247	5.166	4.907	4.528	4.126	3.759	3.448	3.227
55	5.198	5.235	5.202	5.072	4.888	4.714	4.597	4.561	4.594	4.626	4.548	4.309	3.964	3.607	3.289	3.026	2.843
56	4.594	4.623	4.586	4.463	4.296	4.143	4.043	4.015	4.046	4.073	3.998	3.778	3.466	3.150	2.876	2.656	2.505
57	4.060	4.079	4.038	3.922	3.771	3.637	3.551	3.530	3.559	3.581	3.510	3.308	3.026	2.747	2.513	2.330	2.207
58	3.584	3.595	3.552	3.442	3.305	3.188	3.116	3.099	3.126	3.144	3.077	2.892	2.638	2.393	2.194	2.044	1.945
59	3.160	3.165	3.119	3.015	2.892	2.791	2.730	2.717	2.741	2.756	2.693	2.524	2.296	2.081	1.914	1.792	1.713
60	2.783	2.783	2.735	2.637	2.527	2.439	2.389	2.379	2.400	2.411	2.353	2.200	1.996	1.809	1.668	1.570	1.508
61	2.448	2.443	2.394	2.302	2.203	2.128	2.087	2.080	2.098	2.106	2.052	1.914	1.733	1.570	1.452	1.374	1.326
62	2.150	2.142	2.092	2.005	1.917	1.854	1.820	1.815	1.830	1.837	1.787	1.662	1.502	1.361	1.263	1.201	1.165
63	1.885	1.874	1.824	1.744	1.665	1.612	1.585	1.581	1.594	1.598	1.553	1.442	1.300	1.178	1.097	1.049	1.022
64	1.650	1.637	1.588	1.513	1.444	1.399	1.378	1.375	1.386	1.388	1.347	1.249	1.124	1.019	0.952	0.915	0.895
65	1.442	1.427	1.379	1.310	1.249	1.212	1.195	1.194	1.202	1.204	1.167	1.080	0.971	0.881	0.826	0.797	0.783
66	1.256	1.241	1.195	1.132	1.078	1.047	1.035	1.035	1.041	1.042	1.009	0.933	0.838	0.761	0.715	0.693	0.683
67	1.093	1.076	1.033	0.976	0.929	0.904	0.895	0.895	0.900	0.900	0.871	0.804	0.723	0.657	0.619	0.602	0.595
68	9.475	9.514	9.513	9.392	9.183	8.983	8.781	8.618	8.521	8.563	8.507	8.254	7.891	7.504	7.114	6.744	6.404
69	8.194	8.338	8.338	8.222	8.022	7.822	7.622	7.422	7.322	7.362	7.302	7.042	6.679	6.302	5.912	5.542	5.202
70	7.064	6.916	6.579	6.165	5.862	5.733	5.706	5.713	5.739	5.730	5.548	5.125	4.607	4.204	3.794	3.418	3.094
71	6.069	5.932	5.629	5.265	5.007	4.905	4.891	4.898	4.917	4.911	4.758	4.399	3.958	3.618	3.445	3.386	3.368
72	5.196	5.071	4.802	4.486	4.268	4.189	4.182	4.189	4.204	4.199	4.073	3.771	3.398	3.112	2.970	2.923	2.909
73	4.431	4.320	4.084	3.812	3.631	3.570	3.569	3.573	3.585	3.584	3.481	3.228	2.913	2.674	2.558	2.522	2.510
74	3.764	3.666	3.462	3.231	3.082	3.037	3.038	3.041	3.050	3.052	2.970	2.759	2.495	2.296	2.202	2.173	2.163
75	3.184	3.099	2.925	2.732	2.611	2.578	2.581	2.582	2.589	2.594	2.530	2.355	2.134	1.970	1.894	1.872	1.862
76	2.682	2.609	2.463	2.303	2.208	2.185	2.188	2.187	2.192	2.200	2.151	2.007	1.823	1.688	1.628	1.611	1.602
77	2.249	2.187	2.066	1.937	1.843	1.849	1.852	1.848	1.853	1.863	1.826	1.707	1.555	1.445	1.399	1.386	1.377
78	1.878	1.826	1.727	1.625	1.569	1.562	1.565	1.560	1.564	1.575	1.548	1.451	1.325	1.236	1.201	1.192	1.183
79	1.562	1.519	1.438	1.359	1.320	1.318	1.321	1.315	1.318	1.330	1.311	1.231	1.128	1.056	1.031	1.025	1.016
80	1.295	1.258	1.194	1.134	1.108	1.111	1.114	1.109	1.112	1.124	1.109	1.044	0.959	0.903	0.884	0.880	0.871

(1) MBAR = 100 NEWTON/M SQ

MARCH

ZONAL MEAN PRESSURE (MB)

KM LAT =	-80	-70	-60	-50	-40	-30	-20	-10	0	10	20	30	40	50	60	70	80 DEG
18	6.931	7.099	7.341	7.591	7.773	7.848	7.845	7.827	7.825	7.811	7.740	7.606	7.440	7.257	7.044	6.803	6.595 + 1
19	5.952	6.097	6.299	6.500	6.634	6.674	6.652	6.623	6.617	6.611	6.565	6.472	6.350	6.208	6.032	5.825	5.644
20	5.108	5.233	5.403	5.565	5.664	5.682	5.648	5.614	5.605	5.602	5.574	5.509	5.420	5.310	5.162	4.984	4.827
21	4.383	4.491	4.635	4.766	4.839	4.843	4.804	4.768	4.756	4.755	4.738	4.694	4.629	4.541	4.418	4.264	4.129
22	3.760	3.855	3.977	4.084	4.139	4.133	4.094	4.058	4.045	4.045	4.035	4.004	3.955	3.884	3.780	3.649	3.533
23	3.226	3.309	3.414	3.502	3.543	3.533	3.495	3.460	3.447	3.448	3.443	3.421	3.381	3.322	3.234	3.124	3.026
24	2.768	2.842	2.932	3.004	3.036	3.024	2.989	2.957	2.944	2.945	2.943	2.926	2.893	2.842	2.767	2.675	2.593
25	2.376	2.441	2.519	2.580	2.604	2.593	2.562	2.533	2.520	2.521	2.521	2.507	2.478	2.432	2.369	2.291	2.224
26	2.039	2.098	2.166	2.217	2.237	2.227	2.199	2.173	2.161	2.162	2.163	2.151	2.124	2.083	2.028	1.964	1.908
27	1.752	1.804	1.863	1.907	1.923	1.915	1.891	1.868	1.857	1.859	1.860	1.849	1.822	1.784	1.737	1.684	1.639
28	1.505	1.552	1.604	1.641	1.656	1.649	1.629	1.608	1.599	1.600	1.602	1.591	1.565	1.530	1.489	1.445	1.408
29	1.294	1.336	1.382	1.415	1.427	1.422	1.405	1.387	1.379	1.380	1.382	1.371	1.346	1.313	1.277	1.240	1.210
30	1.113	1.151	1.192	1.221	1.232	1.228	1.214	1.199	1.191	1.193	1.194	1.183	1.159	1.129	1.096	1.065	1.041
31	0.959	0.993	1.029	1.054	1.065	1.062	1.051	1.037	1.031	1.032	1.033	1.023	1.000	0.971	0.942	0.915	0.895
32	0.826	0.869	0.896	0.921	0.924	0.918	0.904	0.893	0.893	0.892	0.895	0.886	0.867	0.837	0.805	0.775	0.744 + 0
33	0.712	0.743	0.767	0.790	0.797	0.792	0.780	0.762	0.755	0.755	0.756	0.747	0.729	0.701	0.671	0.641	0.615
34	0.615	0.640	0.669	0.692	0.693	0.693	0.686	0.671	0.663	0.663	0.661	0.651	0.634	0.607	0.579	0.551	0.527
35	0.532	0.556	0.586	0.612	0.612	0.612	0.602	0.586	0.578	0.578	0.578	0.568	0.552	0.527	0.501	0.475	0.450
36	0.461	0.481	0.507	0.531	0.531	0.531	0.521	0.505	0.497	0.497	0.497	0.487	0.472	0.447	0.421	0.395	0.370
37	0.399	0.417	0.437	0.452	0.452	0.452	0.442	0.426	0.418	0.418	0.418	0.408	0.393	0.368	0.342	0.316	0.291
38	0.347	0.363	0.381	0.398	0.398	0.398	0.388	0.372	0.364	0.364	0.364	0.354	0.339	0.314	0.288	0.262	0.237
39	0.301	0.316	0.335	0.342	0.342	0.342	0.332	0.316	0.308	0.308	0.308	0.298	0.283	0.258	0.232	0.206	0.181
40	0.262	0.279	0.296	0.303	0.303	0.303	0.293	0.277	0.269	0.269	0.269	0.259	0.244	0.219	0.193	0.167	0.142
41	0.229	0.240	0.253	0.261	0.261	0.261	0.251	0.235	0.227	0.227	0.227	0.217	0.202	0.177	0.151	0.125	0.100
42	0.199	0.210	0.222	0.231	0.231	0.231	0.221	0.205	0.197	0.197	0.197	0.187	0.172	0.147	0.121	0.095	0.070
43	0.178	0.185	0.195	0.203	0.203	0.203	0.193	0.177	0.169	0.169	0.169	0.159	0.144	0.119	0.093	0.067	0.042
44	0.153	0.161	0.171	0.179	0.179	0.179	0.169	0.153	0.145	0.145	0.145	0.135	0.120	0.095	0.069	0.043	0.018
45	0.134	0.141	0.151	0.159	0.159	0.159	0.149	0.133	0.125	0.125	0.125	0.115	0.100	0.075	0.049	0.023	0.000
46	0.116	0.124	0.132	0.139	0.139	0.139	0.129	0.113	0.105	0.105	0.105	0.095	0.080	0.055	0.029	0.003	0.000
47	0.102	0.109	0.117	0.124	0.124	0.124	0.114	0.098	0.090	0.090	0.090	0.080	0.065	0.040	0.014	0.000	0.000
48	0.090	0.096	0.103	0.108	0.108	0.108	0.100	0.084	0.076	0.076	0.076	0.066	0.051	0.026	0.000	0.000	0.000
49	0.076	0.081	0.087	0.093	0.093	0.093	0.083	0.067	0.059	0.059	0.059	0.049	0.034	0.009	0.000	0.000	0.000
50	0.007	0.013	0.016	0.016	0.016	0.016	0.006	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
51	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
52	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
53	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
54	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
55	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
56	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
57	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
58	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
59	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
60	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
61	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
62	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
63	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
64	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
65	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
66	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
67	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
68	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
69	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
70	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
71	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
72	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
73	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
74	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
75	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
76	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
77	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
78	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
79	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
80	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

(1 MBAR = 100 NEWTON/M SQ)

APRIL

ZONAL MEAN PRESSURE (MB)

KN LAT =	-80	-70	-60	-50	-40	-30	-20	-10	0	10	20	30	40	50	60	70	80 DEG	
18	6.605	6.788	7.065	7.372	7.625	7.772	7.825	7.832	7.821	7.788	7.719	7.613	7.490	7.381	7.318	7.308	7.328	+ 1
19	5.625	5.801	6.051	6.311	6.510	6.615	6.642	6.634	6.618	6.595	6.551	6.481	6.394	6.318	6.277	6.277	6.300	
20	4.782	4.952	5.180	5.402	5.560	5.634	5.644	5.627	5.610	5.594	5.568	5.522	5.461	5.407	5.382	5.389	5.412	
21	4.060	4.223	4.433	4.624	4.751	4.804	4.804	4.782	4.764	4.754	4.741	4.711	4.667	4.628	4.613	4.626	4.649	
22	3.444	3.599	3.791	3.959	4.063	4.103	4.096	4.072	4.054	4.049	4.044	4.025	3.991	3.962	3.954	3.970	3.994	
23	2.919	3.065	3.241	3.389	3.470	3.508	3.499	3.475	3.458	3.455	3.456	3.443	3.416	3.392	3.390	3.408	3.431	
24	2.474	2.609	2.770	2.901	2.979	3.005	2.995	2.972	2.955	2.955	2.959	2.950	2.926	2.906	2.906	2.925	2.948	
25	2.097	2.220	2.366	2.484	2.553	2.577	2.569	2.546	2.531	2.533	2.539	2.531	2.509	2.490	2.492	2.511	2.533	
26	1.777	1.889	2.021	2.127	2.190	2.213	2.207	2.186	2.173	2.175	2.181	2.174	2.153	2.136	2.138	2.157	2.176	
27	1.507	1.608	1.726	1.822	1.880	1.903	1.899	1.881	1.869	1.871	1.877	1.870	1.850	1.834	1.836	1.853	1.870	
28	1.279	1.368	1.474	1.561	1.616	1.639	1.636	1.621	1.610	1.613	1.618	1.611	1.592	1.576	1.577	1.592	1.607	
29	1.086	1.165	1.260	1.339	1.389	1.412	1.412	1.399	1.390	1.392	1.397	1.390	1.372	1.357	1.357	1.369	1.382	
30	0.923	0.993	1.077	1.148	1.196	1.219	1.220	1.210	1.202	1.204	1.208	1.201	1.184	1.169	1.168	1.178	1.188	
31	0.786	0.847	0.921	0.986	1.030	1.053	1.056	1.048	1.041	1.043	1.046	1.039	1.023	1.009	1.007	1.014	1.022	
32	0.697	0.726	0.785	0.842	0.886	0.910	0.915	0.908	0.903	0.905	0.909	0.904	0.888	0.873	0.873	0.881	0.891	+ 0
33	0.576	0.616	0.675	0.728	0.767	0.786	0.794	0.789	0.787	0.785	0.785	0.784	0.768	0.752	0.751	0.754	0.763	
34	0.487	0.526	0.579	0.627	0.664	0.683	0.689	0.683	0.682	0.684	0.684	0.679	0.665	0.654	0.652	0.651	0.654	
35	0.418	0.453	0.493	0.531	0.563	0.582	0.589	0.582	0.581	0.582	0.582	0.577	0.563	0.551	0.550	0.551	0.554	
36	0.359	0.391	0.429	0.467	0.498	0.516	0.523	0.522	0.521	0.521	0.520	0.515	0.506	0.493	0.492	0.493	0.497	
37	0.308	0.347	0.386	0.424	0.453	0.471	0.478	0.471	0.468	0.468	0.468	0.462	0.452	0.441	0.440	0.441	0.445	
38	0.260	0.288	0.319	0.350	0.376	0.391	0.397	0.390	0.387	0.387	0.387	0.381	0.372	0.361	0.360	0.361	0.365	
39	0.219	0.249	0.276	0.307	0.327	0.342	0.348	0.340	0.337	0.337	0.337	0.331	0.322	0.311	0.310	0.311	0.315	
40	1.985	2.154	2.396	2.650	2.858	2.990	3.056	3.081	3.085	3.076	3.058	3.027	2.980	2.919	2.857	2.809	2.781	
41	1.720	1.867	2.080	2.309	2.497	2.618	2.681	2.709	2.715	2.706	2.687	2.659	2.619	2.565	2.506	2.456	2.427	
42	1.493	1.621	1.810	2.015	2.185	2.296	2.355	2.384	2.392	2.383	2.364	2.339	2.306	2.258	2.201	2.152	2.121	
43	1.298	1.410	1.577	1.761	1.915	2.015	2.071	2.101	2.110	2.101	2.082	2.060	2.032	1.990	1.936	1.888	1.858	
44	1.131	1.229	1.376	1.541	1.680	1.771	1.824	1.853	1.863	1.854	1.835	1.816	1.792	1.755	1.705	1.659	1.629	
45	0.987	1.072	1.203	1.350	1.475	1.558	1.607	1.635	1.646	1.637	1.619	1.602	1.582	1.549	1.504	1.459	1.431	
46	0.863	0.937	1.052	1.184	1.297	1.372	1.417	1.444	1.455	1.446	1.429	1.414	1.397	1.369	1.327	1.285	1.258	
47	0.755	0.819	0.921	1.039	1.141	1.209	1.250	1.276	1.286	1.278	1.262	1.248	1.235	1.209	1.171	1.133	1.108	
48	0.661	0.717	0.807	0.913	1.004	1.066	1.103	1.128	1.137	1.130	1.114	1.102	1.091	1.069	1.034	0.999	0.976	
49	0.580	0.629	0.708	0.802	0.884	0.940	0.974	0.997	1.006	0.999	0.984	0.973	0.964	0.945	0.914	0.881	0.860	
50	5.088	5.513	6.210	7.045	7.784	8.285	8.598	8.807	8.890	8.823	8.690	8.594	8.516	8.349	8.068	7.777	7.586	- 1
51	4.468	4.835	5.447	6.190	6.852	7.304	7.588	7.779	7.855	7.792	7.669	7.585	7.520	7.374	7.122	6.860	6.688	
52	3.926	4.242	4.778	5.436	6.030	6.436	6.693	6.866	6.935	6.877	6.764	6.690	6.636	6.509	6.284	6.049	5.895	
53	3.450	3.721	4.189	4.772	5.302	5.668	5.900	6.056	6.118	6.063	5.961	5.896	5.851	5.741	5.541	5.331	5.193	
54	3.032	3.264	3.671	4.186	4.659	4.988	5.196	5.336	5.391	5.341	5.248	5.191	5.154	5.058	4.881	4.694	4.572	
55	2.664	2.862	3.215	3.668	4.090	4.385	4.572	4.697	4.744	4.698	4.615	4.566	4.536	4.452	4.295	4.128	4.021	
56	2.340	2.508	2.813	3.211	3.586	3.850	4.018	4.128	4.169	4.127	4.054	4.011	3.986	3.914	3.774	3.627	3.532	
57	2.055	2.197	2.459	2.807	3.140	3.377	3.526	3.624	3.658	3.620	3.556	3.519	3.499	3.436	3.313	3.183	3.099	
58	1.804	1.922	2.148	2.452	2.746	2.957	3.090	3.176	3.205	3.171	3.114	3.084	3.068	3.012	2.904	2.789	2.716	
59	1.582	1.681	1.874	2.138	2.397	2.586	2.704	2.778	2.803	2.772	2.724	2.699	2.685	2.637	2.542	2.441	2.376	
60	1.386	1.469	1.633	1.862	2.090	2.258	2.363	2.427	2.446	2.420	2.379	2.358	2.347	2.305	2.222	2.133	2.076	
61	1.214	1.282	1.421	1.619	1.819	1.968	2.061	2.116	2.131	2.108	2.074	2.058	2.049	2.012	1.939	1.861	1.811	
62	1.062	1.118	1.236	1.406	1.581	1.713	1.795	1.841	1.853	1.834	1.806	1.793	1.786	1.753	1.690	1.622	1.578	
63	0.928	0.974	1.073	1.219	1.371	1.489	1.561	1.599	1.608	1.592	1.570	1.560	1.554	1.526	1.470	1.412	1.373	
64	0.809	0.848	0.931	1.055	1.188	1.292	1.355	1.386	1.393	1.379	1.363	1.356	1.350	1.325	1.278	1.227	1.193	
65	0.706	0.737	0.807	0.912	1.027	1.119	1.174	1.200	1.204	1.193	1.181	1.176	1.171	1.150	1.109	1.065	1.035	
66	0.614	0.641	0.699	0.788	0.887	0.967	1.015	1.036	1.038	1.030	1.022	1.019	1.015	0.996	0.961	0.923	0.897	
67	0.534	0.559	0.602	0.676	0.765	0.831	0.876	0.908	0.916	0.908	0.899	0.891	0.884	0.864	0.831	0.796	0.766	- 2
68	0.464	0.480	0.521	0.585	0.658	0.719	0.755	0.780	0.786	0.786	0.776	0.768	0.762	0.743	0.710	0.676	0.645	
69	0.408	0.416	0.450	0.503	0.562	0.614	0.649	0.673	0.680	0.676	0.666	0.658	0.650	0.637	0.615	0.582	0.551	
70	3.491	3.614	3.888	4.329	4.860	5.320	5.581	5.648	5.629	5.618	5.637	5.657	5.628	5.523	5.350	5.154	5.001	
71	3.022	3.125	3.350	3.717	4.166	4.562	4.783	4.829	4.806	4.804	4.837	4.861	4.836	4.747	4.604	4.440	4.306	
72	2.613	2.699	2.884	3.187	3.566	3.905	4.090	4.121	4.096	4.101	4.142	4.170	4.149	4.074	3.957	3.819	3.702	
73	2.258	2.329	2.480	2.730	3.047	3.336	3.491	3.509	3.483	3.493	3.539	3.569	3.552	3.490	3.395	3.279	3.177	
74	1.949	2.008	2.131	2.335	2.600	2.844	2.973	2.982	2.957	2.970	3.017	3.049	3.035	2.984	2.907	2.810	2.721	
75	1.681	1.729	1.829	1.996	2.215	2.420	2.527	2.530	2.506	2.521	2.567	2.598	2.588	2.547	2.484	2.403	2.325	
76	1.448	1.488	1.568	1.703	1.885	2.056	2.144	2.143	2.121	2.136	2.180	2.209	2.202	2.169	2.119	2.049	1.981	
77	1.248	1.279	1.343	1.453	1.602	1.743	1.815	1.813	1.794	1.808	1.847	1.874	1.870	1.844	1.803	1.744	1.684	
78	1.074	1.099	1.150	1.238	1.359	1.476	1.535	1.532	1.516	1.529	1.563	1.586	1.584	1.564	1.530	1.480	1.427	
79	0.925	0.945	0.984	1.054	1.153	1.249	1.297	1.295	1.282	1.293	1.322	1.341	1.339	1.323	1.295	1.252	1.206	
80	0.797	0.812	0.842	0.898	0.978	1.056	1.097	1.096	1.086	1.095	1.118	1.133	1.131	1.117	1.094	1.057	1.018	

(1 MBAR = 100 NEWTON/M SQ)

MAY

ZONAL MEAN PRESSURE (MB)

KN LAT =	-80	-70	-60	-50	-40	-30	-20	-10	0	10	20	30	40	50	60	70	80 DEG
18	6.226	6.535	6.900	7.222	7.481	7.682	7.803	7.839	7.831	7.821	7.800	7.737	7.646	7.577	7.559	7.569	7.577
19	5.238	5.536	5.884	6.177	6.392	6.542	6.625	6.643	6.632	6.627	6.620	6.585	6.529	6.491	6.490	6.508	6.521
20	4.391	4.678	5.011	5.282	5.464	5.576	5.631	5.638	5.627	5.626	5.628	5.613	5.581	5.561	5.570	5.593	5.609
21	3.674	3.946	4.263	4.515	4.672	4.758	4.794	4.794	4.784	4.786	4.795	4.792	4.775	4.767	4.781	4.806	4.824
22	3.070	3.325	3.623	3.858	3.997	4.065	4.089	4.085	4.075	4.080	4.093	4.097	4.089	4.087	4.104	4.130	4.150
23	2.565	2.799	3.076	3.295	3.421	3.478	3.493	3.487	3.479	3.486	3.501	3.509	3.506	3.507	3.524	3.550	3.570
24	2.144	2.356	2.610	2.813	2.929	2.979	2.990	2.983	2.976	2.984	3.000	3.009	3.009	3.011	3.027	3.052	3.073
25	1.795	1.983	2.213	2.400	2.509	2.555	2.564	2.556	2.551	2.559	2.575	2.585	2.585	2.587	2.602	2.626	2.646
26	1.504	1.670	1.875	2.047	2.150	2.194	2.202	2.195	2.191	2.199	2.214	2.223	2.223	2.225	2.239	2.261	2.280
27	1.263	1.407	1.589	1.746	1.843	1.885	1.894	1.889	1.886	1.893	1.906	1.914	1.914	1.916	1.928	1.948	1.966
28	1.063	1.187	1.347	1.489	1.580	1.622	1.632	1.628	1.626	1.633	1.644	1.651	1.651	1.652	1.662	1.681	1.697
29	0.897	1.003	1.142	1.269	1.355	1.397	1.408	1.406	1.404	1.410	1.420	1.425	1.425	1.426	1.435	1.451	1.466
30	0.758	0.848	0.969	1.083	1.163	1.204	1.217	1.216	1.215	1.220	1.228	1.232	1.232	1.233	1.241	1.255	1.268
31	0.643	0.719	0.822	0.924	0.999	1.039	1.053	1.053	1.053	1.057	1.063	1.067	1.066	1.067	1.074	1.086	1.098
32	5.464	6.101	6.992	7.892	8.583	8.977	9.122	9.138	9.137	9.171	9.222	9.249	9.247	9.255	9.314	9.421	9.525
33	4.655	5.190	5.952	6.747	7.383	7.762	7.914	7.940	7.943	7.969	8.009	8.031	8.030	8.039	8.091	8.182	8.270
34	3.976	4.424	5.074	5.775	6.356	6.720	6.876	6.910	6.915	6.935	6.966	6.984	6.985	6.995	7.040	7.117	7.192
35	3.405	3.779	4.334	4.949	5.479	5.824	5.982	6.023	6.029	6.043	6.067	6.082	6.086	6.098	6.137	6.201	6.264
36	2.922	3.235	3.709	4.249	4.729	5.054	5.211	5.256	5.263	5.274	5.291	5.305	5.312	5.325	5.359	5.412	5.464
37	2.514	2.776	3.180	3.653	4.088	4.392	4.545	4.594	4.602	4.608	4.622	4.635	4.644	4.658	4.688	4.732	4.775
38	2.168	2.388	2.733	3.147	3.539	3.822	3.970	4.020	4.028	4.032	4.043	4.055	4.067	4.082	4.108	4.144	4.179
39	1.874	2.058	2.353	2.716	3.068	3.331	3.472	3.522	3.531	3.533	3.541	3.553	3.567	3.583	3.606	3.636	3.663
40	1.623	1.778	2.031	2.348	2.665	2.906	3.041	3.090	3.098	3.099	3.106	3.118	3.133	3.150	3.170	3.194	3.216
41	1.408	1.539	1.756	2.035	2.318	2.540	2.666	2.714	2.722	2.722	2.728	2.740	2.756	2.773	2.791	2.811	2.828
42	1.224	1.335	1.522	1.766	2.020	2.222	2.340	2.386	2.393	2.398	2.411	2.427	2.444	2.461	2.477	2.491	2.491
43	1.066	1.161	1.322	1.536	1.762	1.947	2.057	2.099	2.107	2.106	2.111	2.123	2.140	2.157	2.172	2.186	2.196
44	0.930	1.011	1.150	1.337	1.540	1.707	1.809	1.849	1.856	1.855	1.860	1.872	1.889	1.905	1.919	1.931	1.939
45	0.813	0.882	1.002	1.167	1.347	1.499	1.592	1.630	1.636	1.635	1.639	1.652	1.669	1.685	1.698	1.707	1.714
46	0.711	0.770	0.874	1.019	1.180	1.317	1.403	1.437	1.443	1.442	1.446	1.459	1.475	1.490	1.502	1.511	1.517
47	0.623	0.674	0.764	0.891	1.034	1.158	1.237	1.268	1.273	1.276	1.289	1.304	1.319	1.330	1.338	1.343	1.343
48	0.546	0.590	0.669	0.780	0.907	1.019	1.090	1.119	1.123	1.122	1.127	1.138	1.154	1.168	1.178	1.186	1.190
49	0.479	0.517	0.586	0.683	0.796	0.896	0.962	0.988	0.991	0.990	0.995	1.006	1.020	1.034	1.044	1.051	1.055
50	4.210	4.540	5.134	5.988	6.985	7.889	8.481	8.721	8.748	8.736	8.780	8.887	9.022	9.148	9.245	9.311	9.348
51	3.699	3.986	4.503	5.249	6.131	6.941	7.479	7.696	7.717	7.705	7.747	7.849	7.975	8.093	8.187	8.251	8.287
52	3.251	3.501	3.950	4.602	5.380	6.105	6.592	6.789	6.805	6.792	6.832	6.928	7.045	7.156	7.246	7.309	7.345
53	2.858	3.076	3.466	4.035	4.719	5.367	5.807	5.985	5.997	5.983	6.021	6.110	6.219	6.323	6.408	6.471	6.508
54	2.513	2.703	3.042	3.536	4.138	4.715	5.112	5.272	5.280	5.266	5.301	5.384	5.485	5.581	5.663	5.725	5.762
55	2.209	2.375	2.669	3.098	3.625	4.138	4.495	4.639	4.644	4.630	4.663	4.740	4.832	4.921	5.000	5.061	5.099
56	1.941	2.086	2.341	2.713	3.173	3.628	3.949	4.078	4.080	4.067	4.097	4.167	4.252	4.334	4.409	4.470	4.507
57	1.704	1.831	2.052	2.373	2.775	3.177	3.464	3.579	3.580	3.567	3.595	3.659	3.736	3.812	3.883	3.943	3.980
58	1.496	1.607	1.798	2.075	2.424	2.779	3.035	3.137	3.136	3.124	3.150	3.209	3.278	3.347	3.415	3.473	3.511
59	1.312	1.410	1.574	1.813	2.115	2.427	2.654	2.745	2.742	2.731	2.756	2.810	2.872	2.935	2.999	3.056	3.092
60	1.150	1.235	1.378	1.582	1.844	2.117	2.318	2.397	2.394	2.384	2.408	2.456	2.512	2.569	2.630	2.684	2.720
61	1.006	1.082	1.204	1.380	1.605	1.843	2.020	2.089	2.085	2.078	2.100	2.144	2.193	2.245	2.302	2.354	2.388
62	0.880	0.946	1.052	1.202	1.396	1.603	1.757	1.817	1.813	1.807	1.829	1.868	1.911	1.958	2.012	2.061	2.094
63	0.769	0.827	0.918	1.046	1.212	1.392	1.526	1.577	1.573	1.569	1.590	1.625	1.663	1.705	1.755	1.802	1.833
64	0.671	0.722	0.801	0.910	1.052	1.206	1.322	1.365	1.361	1.359	1.380	1.412	1.444	1.482	1.528	1.572	1.601
65	0.584	0.630	0.698	0.790	0.911	1.044	1.143	1.179	1.175	1.175	1.195	1.224	1.252	1.285	1.328	1.369	1.396
66	0.509	0.549	0.607	0.686	0.789	0.902	0.986	1.016	1.012	1.014	1.033	1.059	1.083	1.112	1.151	1.190	1.215
67	0.442	0.478	0.528	0.595	0.682	0.778	0.849	0.873	0.870	0.873	0.892	0.915	0.935	0.961	0.997	1.032	1.055
68	0.384	0.412	0.458	0.512	0.581	0.670	0.724	0.748	0.745	0.750	0.768	0.783	0.805	0.829	0.860	0.898	0.914
69	0.334	0.360	0.380	0.458	0.508	0.564	0.625	0.676	0.672	0.672	0.689	0.704	0.722	0.740	0.761	0.781	0.791
70	2.891	3.128	3.450	3.854	4.377	4.948	5.346	5.455	5.435	5.499	5.665	5.820	5.936	6.109	6.381	6.653	6.813
71	2.504	2.712	2.987	3.327	3.765	4.240	4.562	4.644	4.625	4.693	4.849	4.984	5.079	5.230	5.475	5.720	5.859
72	2.168	2.348	2.583	2.869	3.234	3.626	3.884	3.940	3.927	3.997	4.140	4.257	4.335	4.466	4.685	4.904	5.025
73	1.876	2.032	2.232	2.470	2.773	3.095	3.300	3.338	3.328	3.397	3.527	3.627	3.690	3.804	3.999	4.192	4.296
74	1.622	1.756	1.925	2.124	2.374	2.636	2.799	2.822	2.815	2.831	2.898	3.002	3.133	3.231	3.403	3.573	3.660
75	1.403	1.517	1.659	1.823	2.028	2.247	2.369	2.382	2.377	2.439	2.542	2.612	2.652	2.737	2.888	3.034	3.107
76	1.213	1.310	1.428	1.563	1.730	1.902	2.001	2.009	2.006	2.062	2.151	2.208	2.239	2.311	2.442	2.567	2.627
77	1.048	1.130	1.228	1.338	1.473	1.611	1.689	1.692	1.691	1.741	1.816	1.862	1.886	1.946	2.058	2.164	2.212
78	0.906	0.974	1.055	1.144	1.253	1.363	1.424	1.426	1.426	1.469	1.532	1.567	1.584	1.633	1.728	1.815	1.853
79	0.783	0.840	0.906	0.977	1.065	1.153	1.201	1.201	1.203	1.240	1.290	1.316	1.327	1.367	1.444	1.516	1.545
80	0.677	0.724	0.778	0.836	0.905	0.976	1.013	1.014	1.016	1.047	1.088	1.105	1.110	1.140	1.202	1.259	1.281

(1 MBAR = 100 NEWTON/M SQ)

JUNE

ZONAL MEAN PRESSURE (MB)

KM LAT =	-80	-70	-60	-50	-40	-30	-20	-10	0	10	20	30	40	50	60	70	80 DEG	
18	5.917	6.309	6.784	7.141	7.424	7.647	7.801	7.858	7.843	7.823	7.828	7.833	7.810	7.774	7.758	7.722	7.797	+ 1
19	4.925	5.297	5.736	6.098	6.349	6.523	6.631	6.666	6.651	6.636	6.647	6.667	6.671	6.665	6.671	6.697	6.725	
20	4.077	4.431	4.855	5.204	5.432	5.569	5.643	5.664	5.651	5.641	5.657	5.685	5.706	5.718	5.738	5.770	5.801	
21	3.364	3.696	4.102	4.439	4.649	4.759	4.810	4.820	4.810	4.807	4.825	4.858	4.887	4.909	4.934	4.971	5.005	
22	2.773	3.079	3.461	3.783	3.980	4.071	4.105	4.110	4.103	4.104	4.124	4.158	4.190	4.218	4.248	4.285	4.320	
23	2.287	2.563	2.917	3.222	3.408	3.487	3.510	3.511	3.507	3.511	3.531	3.564	3.597	3.626	3.657	3.694	3.729	
24	1.889	2.134	2.456	2.743	2.918	2.990	3.006	3.004	3.002	3.009	3.029	3.060	3.092	3.121	3.151	3.187	3.221	
25	1.563	1.779	2.068	2.333	2.499	2.565	2.578	2.576	2.575	2.583	2.602	2.630	2.660	2.688	2.717	2.752	2.784	
26	1.298	1.485	1.741	1.983	2.139	2.203	2.214	2.212	2.213	2.221	2.239	2.264	2.291	2.317	2.345	2.378	2.408	
27	1.081	1.242	1.467	1.685	1.831	1.893	1.903	1.903	1.904	1.913	1.929	1.951	1.976	2.000	2.026	2.056	2.085	
28	0.904	1.041	1.237	1.432	1.567	1.628	1.641	1.640	1.642	1.649	1.664	1.684	1.704	1.728	1.752	1.781	1.807	
29	0.759	0.875	1.044	1.216	1.341	1.400	1.415	1.415	1.417	1.424	1.437	1.454	1.474	1.495	1.518	1.544	1.567	
30	0.640	0.738	0.882	1.034	1.148	1.205	1.222	1.224	1.225	1.231	1.243	1.258	1.276	1.295	1.316	1.340	1.361	
31	0.541	0.624	0.747	0.879	0.982	1.038	1.057	1.059	1.061	1.066	1.076	1.090	1.106	1.123	1.143	1.165	1.184	
32	0.459	0.529	0.634	0.748	0.841	0.895	0.915	0.919	0.920	0.924	0.933	0.945	0.959	0.976	0.995	1.014	1.031	
33	3.915	4.500	5.385	6.375	7.210	7.723	7.934	7.977	7.983	8.019	8.097	8.206	8.337	8.491	8.666	8.845	8.985	+ 0
34	3.347	3.839	4.588	5.439	6.184	6.670	6.887	6.937	6.939	6.968	7.037	7.135	7.255	7.398	7.563	7.725	7.846	
35	2.871	3.286	3.919	4.648	5.309	5.766	5.986	6.040	6.040	6.062	6.124	6.213	6.322	6.457	6.611	6.758	6.861	
36	2.470	2.820	3.355	3.980	4.565	4.991	5.210	5.267	5.264	5.280	5.336	5.418	5.518	5.644	5.789	5.921	6.008	
37	2.131	2.427	2.879	3.414	3.931	4.326	4.540	4.599	4.593	4.605	4.656	4.731	4.823	4.941	5.076	5.196	5.270	
38	1.843	2.094	2.477	2.935	3.390	3.755	3.962	4.020	4.013	4.022	4.068	4.137	4.222	4.332	4.458	4.567	4.629	
39	1.597	1.812	2.137	2.528	2.929	3.264	3.462	3.519	3.510	3.516	3.559	3.623	3.701	3.803	3.922	4.020	4.073	
40	1.388	1.571	1.847	2.183	2.536	2.842	3.029	3.083	3.074	3.078	3.117	3.177	3.249	3.344	3.454	3.543	3.588	
41	1.208	1.365	1.601	1.889	2.199	2.478	2.653	2.705	2.695	2.697	2.734	2.789	2.856	2.944	3.046	3.127	3.165	
42	1.054	1.189	1.390	1.638	1.911	2.164	2.327	2.375	2.365	2.367	2.401	2.451	2.513	2.595	2.690	2.764	2.796	
43	0.921	1.037	1.210	1.423	1.664	1.893	2.043	2.088	2.078	2.078	2.110	2.157	2.214	2.290	2.378	2.445	2.473	
44	0.806	0.906	1.054	1.239	1.451	1.657	1.796	1.837	1.827	1.827	1.856	1.900	1.952	2.022	2.104	2.165	2.189	
45	0.706	0.793	0.921	1.081	1.267	1.453	1.579	1.617	1.607	1.607	1.635	1.675	1.723	1.788	1.863	1.919	1.940	
46	0.619	0.695	0.806	0.944	1.109	1.275	1.390	1.425	1.415	1.415	1.440	1.478	1.522	1.581	1.650	1.702	1.721	
47	0.544	0.610	0.706	0.826	0.971	1.120	1.225	1.256	1.246	1.246	1.270	1.304	1.344	1.399	1.463	1.510	1.527	
48	0.478	0.536	0.619	0.723	0.851	0.985	1.079	1.107	1.098	1.098	1.120	1.151	1.188	1.238	1.297	1.341	1.354	
49	0.421	0.471	0.543	0.634	0.747	0.866	0.951	0.976	0.968	0.968	0.988	1.017	1.050	1.096	1.150	1.191	1.205	
50	0.370	0.414	0.477	0.556	0.655	0.762	0.839	0.861	0.853	0.853	0.872	0.898	0.928	0.970	1.020	1.057	1.071	- 1
51	3.261	3.647	4.193	4.882	5.754	6.704	7.390	7.590	7.518	7.518	7.686	7.927	8.205	8.587	9.045	9.390	9.514	
52	2.874	3.212	3.687	4.286	5.052	5.896	6.511	6.690	6.623	6.623	6.777	6.996	7.248	7.597	8.017	8.336	8.453	
53	2.532	2.830	3.243	3.763	4.434	5.183	5.734	5.893	5.831	5.831	5.971	6.170	6.398	6.716	7.102	7.398	7.509	
54	2.232	2.493	2.853	3.303	3.890	4.553	5.045	5.188	5.131	5.130	5.257	5.437	5.644	5.933	6.287	6.562	6.667	
55	1.966	2.196	2.509	2.899	3.411	3.997	4.436	4.563	4.510	4.510	4.624	4.787	4.973	5.237	5.561	5.816	5.916	
56	1.732	1.935	2.207	2.543	2.988	3.505	3.895	4.008	3.961	3.960	4.063	4.209	4.378	4.617	4.914	5.150	5.245	
57	1.525	1.704	1.940	2.229	2.616	3.070	3.416	3.517	3.474	3.473	3.565	3.696	3.848	4.065	4.338	4.556	4.646	
58	1.342	1.499	1.704	1.953	2.287	2.685	2.992	3.081	3.042	3.041	3.124	3.241	3.378	3.575	3.824	4.026	4.111	
59	1.180	1.319	1.497	1.710	1.998	2.346	2.616	2.695	2.660	2.659	2.732	2.837	2.960	3.139	3.366	3.553	3.633	
60	1.036	1.159	1.313	1.496	1.744	2.046	2.283	2.353	2.321	2.320	2.386	2.479	2.589	2.751	2.959	3.131	3.206	
61	0.909	1.017	1.151	1.307	1.520	1.782	1.989	2.050	2.022	2.021	2.080	2.163	2.261	2.407	2.596	2.754	2.825	
62	0.797	0.892	1.008	1.141	1.323	1.550	1.730	1.782	1.758	1.757	1.809	1.883	1.970	2.102	2.274	2.419	2.485	
63	0.697	0.781	0.882	0.996	1.151	1.346	1.501	1.546	1.525	1.525	1.570	1.635	1.713	1.832	1.988	2.121	2.182	
64	0.610	0.684	0.771	0.868	1.000	1.167	1.300	1.338	1.319	1.320	1.360	1.417	1.487	1.593	1.734	1.855	1.911	
65	0.532	0.597	0.673	0.755	0.868	1.010	1.123	1.155	1.139	1.140	1.176	1.226	1.287	1.382	1.509	1.619	1.671	
66	0.464	0.521	0.587	0.657	0.752	0.872	0.968	0.995	0.981	0.982	1.014	1.058	1.111	1.196	1.311	1.410	1.458	
67	0.403	0.453	0.511	0.571	0.651	0.753	0.833	0.854	0.842	0.845	0.873	0.910	0.957	1.033	1.135	1.225	1.268	
68	0.351	0.394	0.444	0.495	0.563	0.648	0.714	0.731	0.722	0.724	0.749	0.782	0.822	0.889	0.980	1.061	1.100	
69	3.042	3.423	3.855	4.294	4.864	5.571	6.115	6.248	6.165	6.200	6.416	6.694	7.047	7.633	8.442	9.162	9.518	- 2
70	2.636	2.968	3.342	3.716	4.195	4.779	5.222	5.323	5.255	5.293	5.483	5.720	6.021	6.533	7.248	7.888	8.207	
71	2.281	2.569	2.892	3.211	3.611	4.092	4.448	4.523	4.468	4.509	4.675	4.874	5.130	5.574	6.202	6.768	7.053	
72	1.972	2.221	2.499	2.770	3.103	3.496	3.781	3.834	3.790	3.833	3.977	4.144	4.358	4.740	5.289	5.786	6.039	
73	1.703	1.918	2.157	2.385	2.661	2.981	3.206	3.243	3.208	3.251	3.376	3.514	3.691	4.017	4.493	4.928	5.149	
74	1.470	1.654	1.858	2.050	2.276	2.535	2.712	2.737	2.710	2.752	2.860	2.972	3.117	3.393	3.802	4.179	4.372	
75	1.268	1.425	1.598	1.758	1.943	2.152	2.290	2.306	2.285	2.326	2.418	2.508	2.624	2.854	3.203	3.528	3.694	
76	1.093	1.227	1.373	1.504	1.655	1.822	1.930	1.940	1.925	1.963	2.041	2.112	2.202	2.392	2.687	2.964	3.106	
77	0.942	1.056	1.178	1.285	1.406	1.540	1.625	1.630	1.619	1.655	1.720	1.774	1.842	1.997	2.244	2.477	2.598	
78	0.811	0.908	1.010	1.097	1.193	1.300	1.366	1.369	1.362	1.394	1.448	1.487	1.537	1.661	1.864	2.059	2.160	
79	0.699	0.780	0.865	0.935	1.012	1.097	1.149	1.150	1.146	1.174	1.218	1.245	1.279	1.376	1.541	1.701	1.784	
80	0.601	0.670	0.740	0.797	0.858	0.926	0.966	0.967	0.965	0.989	1.024	1.041	1.062	1.135	1.267	1.396	1.464	

(1 MBAR = 100 NEWTON/M SQ)

JULY

ZONAL MEAN PRESSURE (MB)

KM LAT =	-80	-70	-60	-50	-40	-30	-20	-10	0	10	20	30	40	50	60	70	80 DEG	
18	5.616	6.086	6.528	7.033	7.422	7.679	7.832	7.896	7.886	7.852	7.855	7.904	7.947	7.938	7.901	7.894	7.928	+ 1
19	4.619	4.997	5.506	5.994	6.347	6.551	6.656	6.697	6.690	6.666	6.674	6.728	6.787	6.805	6.795	6.804	6.841	
20	3.775	4.138	4.633	5.105	5.429	5.593	5.662	5.688	5.685	5.670	5.683	5.739	5.804	5.838	5.844	5.863	5.903	
21	3.079	3.420	3.892	4.345	4.646	4.780	4.823	4.839	4.840	4.834	4.849	4.904	4.971	5.012	5.028	5.053	5.095	
22	2.514	2.826	3.267	3.696	3.978	4.091	4.116	4.124	4.128	4.128	4.145	4.197	4.262	4.306	4.328	4.356	4.398	
23	2.059	2.338	2.742	3.144	3.407	3.506	3.518	3.521	3.528	3.532	3.550	3.597	3.659	3.703	3.727	3.757	3.799	
24	1.694	1.939	2.302	2.673	2.919	3.008	3.013	3.012	3.020	3.027	3.044	3.088	3.145	3.187	3.212	3.243	3.283	
25	1.402	1.613	1.935	2.272	2.502	2.583	2.584	2.581	2.589	2.598	2.615	2.653	2.706	2.746	2.771	2.801	2.839	
26	1.166	1.347	1.628	1.932	2.144	2.220	2.220	2.216	2.224	2.233	2.248	2.283	2.330	2.368	2.392	2.421	2.457	
27	0.976	1.129	1.373	1.644	1.838	1.910	1.910	1.905	1.912	1.922	1.936	1.966	2.009	2.044	2.068	2.095	2.128	
28	0.821	0.951	1.160	1.399	1.576	1.644	1.646	1.641	1.647	1.656	1.668	1.696	1.734	1.766	1.789	1.815	1.845	
29	0.695	0.804	0.983	1.192	1.351	1.416	1.419	1.415	1.420	1.428	1.439	1.464	1.498	1.528	1.550	1.574	1.601	
30	0.591	0.682	0.834	1.016	1.159	1.220	1.226	1.222	1.226	1.233	1.243	1.265	1.296	1.324	1.345	1.367	1.391	
31	0.504	0.581	0.710	0.868	0.994	1.052	1.059	1.057	1.060	1.066	1.075	1.094	1.122	1.148	1.168	1.188	1.210	
32	0.432	0.496	0.607	0.742	0.854	0.908	0.917	0.915	0.918	0.923	0.931	0.948	0.973	0.997	1.016	1.035	1.053	
33	3.712	4.258	5.193	6.353	7.337	7.836	7.942	7.937	7.955	7.994	8.066	8.221	8.448	8.672	8.853	9.022	9.181	+ 0
34	3.200	3.663	4.458	5.450	6.312	6.771	6.888	6.891	6.903	6.934	6.999	7.139	7.344	7.552	7.725	7.879	8.014	
35	2.765	3.161	3.837	4.686	5.436	5.857	5.981	5.990	5.998	6.022	6.081	6.207	6.393	6.586	6.750	6.890	7.005	
36	2.395	2.734	3.311	4.036	4.688	5.072	5.199	5.215	5.218	5.237	5.290	5.403	5.572	5.752	5.907	6.034	6.131	
37	2.078	2.371	2.864	3.484	4.050	4.398	4.526	4.545	4.545	4.559	4.607	4.710	4.863	5.030	5.177	5.292	5.374	
38	1.806	2.060	2.483	3.014	3.505	3.819	3.945	3.967	3.965	3.975	4.018	4.112	4.251	4.406	4.543	4.649	4.717	
39	1.573	1.794	2.158	2.612	3.038	3.321	3.443	3.467	3.463	3.470	3.509	3.594	3.720	3.864	3.993	4.088	4.146	
40	1.371	1.564	1.879	2.269	2.639	2.893	3.009	3.034	3.028	3.033	3.069	3.145	3.260	3.393	3.513	3.601	3.650	
41	1.198	1.367	1.639	1.975	2.296	2.524	2.633	2.658	2.652	2.654	2.687	2.756	2.861	2.983	3.095	3.175	3.217	
42	1.047	1.196	1.432	1.722	2.001	2.206	2.308	2.331	2.325	2.326	2.355	2.418	2.513	2.625	2.730	2.803	2.839	
43	0.917	1.047	1.253	1.504	1.748	1.930	2.025	2.047	2.040	2.040	2.067	2.124	2.210	2.313	2.410	2.477	2.508	
44	0.804	0.919	1.098	1.315	1.529	1.692	1.779	1.800	1.792	1.792	1.816	1.867	1.945	2.040	2.130	2.191	2.218	
45	0.706	0.807	0.963	1.152	1.339	1.485	1.564	1.584	1.576	1.575	1.596	1.643	1.714	1.800	1.883	1.940	1.964	
46	0.620	0.709	0.846	1.010	1.174	1.304	1.377	1.395	1.387	1.385	1.405	1.447	1.511	1.590	1.666	1.719	1.740	
47	0.546	0.624	0.743	0.887	1.031	1.147	1.213	1.229	1.221	1.220	1.237	1.275	1.333	1.405	1.475	1.523	1.543	
48	0.481	0.549	0.654	0.779	0.905	1.009	1.069	1.083	1.076	1.074	1.090	1.124	1.176	1.242	1.307	1.351	1.369	
49	0.424	0.484	0.575	0.684	0.796	0.888	0.942	0.955	0.948	0.946	0.960	0.991	1.038	1.098	1.157	1.198	1.215	
50	0.374	0.427	0.506	0.601	0.699	0.782	0.831	0.843	0.836	0.834	0.846	0.874	0.916	0.970	1.025	1.063	1.079	
51	3.306	3.766	4.456	5.286	6.146	6.884	7.324	7.430	7.368	7.347	7.459	7.708	8.086	8.577	9.079	9.434	9.584	- 1
52	2.921	3.322	3.923	4.644	5.400	6.057	6.454	6.550	6.492	6.471	6.572	6.794	7.133	7.578	8.039	8.369	8.511	
53	2.581	2.932	3.453	4.079	4.741	5.326	5.684	5.771	5.718	5.698	5.787	5.985	6.288	6.691	7.114	7.422	7.556	
54	2.282	2.587	3.039	3.581	4.160	4.679	5.002	5.081	5.033	5.014	5.093	5.268	5.539	5.904	6.293	6.579	6.706	
55	2.017	2.283	2.674	3.142	3.646	4.106	4.397	4.470	4.426	4.408	4.478	4.633	4.875	5.205	5.562	5.829	5.949	
56	1.782	2.014	2.351	2.754	3.192	3.598	3.860	3.928	3.889	3.872	3.932	4.069	4.285	4.583	4.911	5.160	5.274	
57	1.573	1.775	2.066	2.411	2.790	3.149	3.384	3.447	3.413	3.397	3.449	3.570	3.761	4.031	4.332	4.564	4.671	
58	1.388	1.564	1.814	2.109	2.436	2.751	2.962	3.020	2.991	2.976	3.022	3.127	3.297	3.540	3.817	4.032	4.134	
59	1.223	1.376	1.591	1.843	2.124	2.399	2.588	2.642	2.617	2.603	2.643	2.734	2.884	3.105	3.358	3.558	3.654	
60	1.077	1.210	1.395	1.609	1.849	2.089	2.257	2.308	2.286	2.274	2.307	2.386	2.519	2.718	2.950	3.136	3.225	
61	0.946	1.063	1.221	1.402	1.607	1.816	1.965	2.012	1.994	1.983	2.011	2.079	2.196	2.375	2.587	2.759	2.843	
62	0.830	0.932	1.068	1.221	1.395	1.576	1.707	1.750	1.736	1.726	1.749	1.807	1.910	2.071	2.265	2.423	2.502	
63	0.728	0.816	0.932	1.062	1.209	1.365	1.480	1.519	1.508	1.499	1.518	1.567	1.658	1.802	1.979	2.125	2.198	
64	0.636	0.713	0.813	0.922	1.047	1.180	1.281	1.316	1.307	1.299	1.315	1.357	1.435	1.565	1.725	1.859	1.927	
65	0.556	0.622	0.708	0.800	0.905	1.019	1.106	1.138	1.131	1.124	1.137	1.171	1.240	1.355	1.500	1.623	1.686	
66	0.484	0.542	0.615	0.693	0.782	0.878	0.953	0.981	0.976	0.970	0.980	1.009	1.069	1.171	1.302	1.413	1.472	
67	0.421	0.471	0.534	0.600	0.675	0.756	0.820	0.844	0.841	0.836	0.844	0.867	0.919	1.009	1.126	1.228	1.281	
68	0.366	0.409	0.463	0.519	0.581	0.649	0.703	0.725	0.722	0.718	0.724	0.744	0.788	0.867	0.972	1.063	1.112	
69	3.168	3.542	4.004	4.477	5.002	5.573	6.024	6.204	6.189	6.160	6.206	6.365	6.738	7.432	8.356	9.177	9.625	- 2
70	2.741	3.063	3.459	3.860	4.299	4.774	5.149	5.300	5.291	5.270	5.306	5.433	5.749	6.350	7.163	7.895	8.302	
71	2.368	2.645	2.983	3.322	3.690	4.083	4.392	4.517	4.513	4.498	4.526	4.628	4.892	5.409	6.119	6.767	7.134	
72	2.043	2.280	2.569	2.856	3.162	3.486	3.738	3.841	3.839	3.830	3.853	3.934	4.153	4.593	5.207	5.777	6.106	
73	1.760	1.963	2.210	2.451	2.705	2.971	3.176	3.258	3.259	3.254	3.274	3.337	3.516	3.887	4.414	4.911	5.203	
74	1.514	1.689	1.898	2.100	2.310	2.527	2.693	2.758	2.759	2.759	2.776	2.825	2.969	3.278	3.725	4.155	4.413	
75	1.301	1.451	1.628	1.797	1.969	2.146	2.278	2.329	2.331	2.334	2.350	2.388	2.501	2.755	3.130	3.498	3.725	
76	1.117	1.245	1.396	1.535	1.675	1.818	1.924	1.964	1.966	1.971	1.986	2.014	2.102	2.306	2.618	2.930	3.126	
77	0																	

(1 MBAR = 100 NEWTON/M SQ)

AUGUST

ZONAL MEAN PRESSURE (MB)

KN LAT =	-80	-70	-60	-50	-40	-30	-20	-10	0	10	20	30	40	50	60	70	80 DEG	
18	5.804	6.173	6.641	7.084	7.444	7.717	7.892	7.951	7.922	7.877	7.877	7.914	7.932	7.899	7.836	7.787	7.769	+ 1
19	4.722	5.110	5.602	6.046	6.370	6.584	6.705	6.740	6.714	6.683	6.695	6.742	6.777	6.770	6.733	6.702	6.694	
20	3.812	4.210	4.715	5.159	5.454	5.619	5.700	5.719	5.698	5.680	5.699	5.752	5.796	5.804	5.784	5.768	5.767	
21	3.075	3.465	3.966	4.402	4.673	4.802	4.853	4.861	4.846	4.836	4.861	4.914	4.963	4.979	4.971	4.964	4.968	
22	2.488	2.856	3.337	3.756	4.006	4.109	4.138	4.139	4.128	4.126	4.153	4.205	4.253	4.274	4.273	4.273	4.281	
23	2.026	2.362	2.810	3.206	3.437	3.521	3.536	3.532	3.525	3.527	3.553	3.602	3.649	3.672	3.676	3.679	3.689	
24	1.663	1.963	2.371	2.737	2.951	3.021	3.026	3.019	3.015	3.020	3.045	3.090	3.134	3.158	3.164	3.170	3.181	
25	1.377	1.640	2.004	2.339	2.534	2.595	2.595	2.586	2.584	2.590	2.613	2.653	2.694	2.718	2.726	2.733	2.744	
26	1.149	1.377	1.699	1.999	2.178	2.232	2.229	2.219	2.218	2.225	2.246	2.281	2.318	2.342	2.351	2.358	2.368	
27	0.967	1.163	1.443	1.711	1.872	1.921	1.917	1.908	1.907	1.914	1.932	1.963	1.997	2.019	2.029	2.036	2.045	
28	0.820	0.987	1.230	1.465	1.610	1.655	1.651	1.642	1.642	1.648	1.664	1.691	1.722	1.743	1.753	1.760	1.768	
29	0.699	0.842	1.051	1.256	1.385	1.427	1.424	1.416	1.416	1.421	1.435	1.459	1.486	1.506	1.516	1.523	1.529	
30	0.600	0.722	0.901	1.078	1.192	1.231	1.230	1.223	1.222	1.227	1.239	1.260	1.284	1.303	1.313	1.319	1.325	
31	0.517	0.621	0.774	0.927	1.027	1.063	1.063	1.057	1.056	1.061	1.071	1.089	1.111	1.128	1.138	1.144	1.148	
32	4.470	5.361	6.669	7.980	8.850	9.179	9.199	9.155	9.144	9.176	9.266	9.424	9.617	9.781	9.880	9.934	9.967	+ 0
33	3.877	4.643	5.761	6.881	7.634	7.936	7.970	7.937	7.924	7.949	8.027	8.166	8.338	8.491	8.588	8.638	8.662	
34	3.370	4.031	4.988	5.943	6.592	6.867	6.914	6.891	6.877	6.895	6.963	7.085	7.238	7.380	7.476	7.522	7.537	
35	2.935	3.508	4.329	5.142	5.698	5.949	6.006	5.992	5.976	5.988	6.047	6.155	6.292	6.424	6.516	6.559	6.567	
36	2.560	3.059	3.765	4.456	4.932	5.159	5.223	5.217	5.200	5.208	5.259	5.354	5.477	5.599	5.687	5.727	5.730	
37	2.236	2.672	3.281	3.868	4.275	4.480	4.549	4.549	4.532	4.536	4.580	4.664	4.774	4.886	4.971	5.008	5.006	
38	1.954	2.337	2.864	3.364	3.710	3.895	3.967	3.973	3.956	3.994	4.069	4.167	4.271	4.351	4.385	4.380		
39	1.710	2.047	2.504	2.930	3.225	3.392	3.465	3.475	3.458	3.455	3.488	3.554	3.642	3.737	3.813	3.844	3.837	
40	1.498	1.795	2.192	2.556	2.808	2.957	3.030	3.044	3.027	3.022	3.050	3.109	3.187	3.275	3.346	3.375	3.366	
41	1.313	1.576	1.922	2.233	2.449	2.583	2.654	2.670	2.654	2.647	2.671	2.722	2.793	2.873	2.940	2.966	2.956	
42	1.152	1.384	1.687	1.953	2.138	2.259	2.328	2.345	2.330	2.322	2.342	2.387	2.451	2.524	2.586	2.610	2.599	
43	1.013	1.210	1.481	1.711	1.870	1.978	2.045	2.063	2.049	2.039	2.056	2.095	2.152	2.220	2.277	2.299	2.288	
44	0.891	1.072	1.302	1.499	1.637	1.735	1.798	1.816	1.803	1.793	1.806	1.841	1.892	1.954	2.006	2.027	2.016	
45	0.785	0.944	1.145	1.315	1.435	1.523	1.583	1.601	1.588	1.578	1.589	1.619	1.665	1.721	1.769	1.788	1.778	
46	0.692	0.832	1.007	1.155	1.259	1.338	1.394	1.412	1.401	1.390	1.398	1.425	1.466	1.517	1.561	1.579	1.569	
47	0.611	0.734	0.887	1.014	1.105	1.177	1.229	1.246	1.236	1.225	1.231	1.255	1.291	1.338	1.379	1.394	1.386	
48	0.540	0.647	0.780	0.890	0.970	1.036	1.084	1.101	1.091	1.080	1.085	1.105	1.138	1.180	1.217	1.232	1.225	
49	0.477	0.571	0.687	0.782	0.852	0.911	0.957	0.972	0.963	0.953	0.956	0.974	1.003	1.041	1.075	1.089	1.083	
50	4.222	5.045	6.043	6.864	7.479	8.020	8.439	8.586	8.503	8.403	8.427	8.578	8.838	9.182	9.498	9.628	9.573	- 1
51	3.738	4.453	5.315	6.024	6.564	7.055	7.443	7.581	7.505	7.411	7.426	7.556	7.786	8.097	8.387	8.512	8.466	
52	3.310	3.931	4.673	5.283	5.759	6.204	6.561	6.691	6.622	6.533	6.541	6.653	6.857	7.137	7.404	7.523	7.487	
53	2.931	3.468	4.106	4.630	5.047	5.451	5.780	5.900	5.838	5.756	5.759	5.855	6.034	6.287	6.533	6.648	6.621	
54	2.595	3.059	3.606	4.053	4.420	4.784	5.086	5.198	5.143	5.067	5.067	5.148	5.306	5.534	5.761	5.872	5.853	
55	2.295	2.696	3.163	3.545	3.865	4.195	4.471	4.575	4.525	4.457	4.454	4.523	4.661	4.866	5.076	5.183	5.172	
56	2.028	2.374	2.773	3.097	3.376	3.672	3.924	4.021	3.977	3.916	3.912	3.970	4.090	4.274	4.468	4.572	4.568	
57	1.790	2.088	2.428	2.703	2.945	3.210	3.439	3.528	3.491	3.436	3.431	3.480	3.584	3.750	3.929	4.030	4.033	
58	1.578	1.834	2.123	2.355	2.565	2.802	3.010	3.092	3.040	3.011	3.006	3.047	3.137	3.285	3.450	3.549	3.557	
59	1.389	1.609	1.854	2.050	2.231	2.442	2.629	2.704	2.677	2.636	2.631	2.664	2.741	2.873	3.026	3.122	3.135	
60	1.220	1.410	1.618	1.782	1.937	2.124	2.292	2.361	2.339	2.303	2.299	2.325	2.391	2.509	2.650	2.743	2.760	
61	1.070	1.233	1.409	1.547	1.680	1.845	1.995	2.058	2.040	2.010	2.006	2.027	2.082	2.187	2.318	2.407	2.427	
62	0.937	1.077	1.226	1.341	1.455	1.600	1.733	1.790	1.776	1.751	1.747	1.764	1.810	1.904	2.023	2.109	2.131	
63	0.818	0.938	1.065	1.161	1.259	1.385	1.503	1.554	1.544	1.523	1.520	1.532	1.571	1.654	1.763	1.845	1.869	
64	0.713	0.817	0.924	1.004	1.087	1.197	1.301	1.347	1.339	1.323	1.320	1.329	1.360	1.434	1.534	1.611	1.636	
65	0.621	0.709	0.800	0.868	0.938	1.034	1.124	1.165	1.160	1.147	1.144	1.150	1.176	1.240	1.332	1.404	1.430	
66	0.539	0.615	0.692	0.749	0.809	0.891	0.970	1.006	1.003	0.993	0.990	0.994	1.015	1.071	1.153	1.221	1.247	
67	0.468	0.533	0.598	0.646	0.697	0.767	0.835	0.867	0.865	0.858	0.856	0.857	0.874	0.923	0.997	1.059	1.085	
68	4.051	4.605	5.159	5.563	5.997	6.400	7.181	7.454	7.450	7.396	7.379	7.381	7.511	7.934	8.595	9.167	9.416	- 2
69	3.503	3.975	4.446	4.787	5.156	5.670	6.163	6.398	6.402	6.365	6.351	6.343	6.442	6.805	7.391	7.911	8.149	
70	3.025	3.427	3.827	4.116	4.430	4.865	5.282	5.480	5.489	5.467	5.456	5.440	5.514	5.823	6.338	6.807	7.031	
71	2.608	2.952	3.291	3.536	3.801	4.169	4.518	4.685	4.696	4.684	4.677	4.657	4.710	4.971	5.419	5.838	6.045	
72	2.246	2.539	2.828	3.035	3.259	3.567	3.859	3.996	4.008	4.004	4.001	3.978	4.014	4.232	4.619	4.989	5.179	
73	1.931	2.183	2.428	2.603	2.790	3.048	3.289	3.401	3.412	3.414	3.415	3.392	3.414	3.593	3.923	4.248	4.420	
74	1.659	1.874	2.084	2.230	2.386	2.600	2.799	2.889	2.897	2.903	2.908	2.886	2.897	3.042	3.321	3.602	3.756	
75	1.423	1.608	1.787	1.909	2.037	2.214	2.377	2.448	2.454	2.463	2.470	2.450	2.453	2.567	2.800	3.042	3.178	
76	1.218	1.379	1.532	1.632	1.736	1.887	2.015	2.070	2.074	2.084	2.094	2.077	2.072	2.161	2.353	2.557	2.677	
77	1.042	1.182	1.312	1.394	1.478	1.592	1.705	1.747	1.748	1.759	1.772	1.757	1.747	1.813	1.969	2.141	2.245	
78	0.891	1.013	1.124	1.190	1.256	1.353	1.441	1.472	1.472	1.483	1.497	1.484	1.469	1.517	1.641	1.784	1.874	
79	0.761	0.867	0.962	1.015	1.066	1.145	1.216	1.240	1.238	1.249	1.263	1.252	1.234	1.265	1.363	1.481	1.558	
80	0.651	0.742	0.822	0.865	0.905	0.968	1.026	1.044	1.041	1.052	1.066	1.055	1.035	1.053	1.128	1.225	1.291	

(1 MBAR = 100 NEWTON/M SQ)

SEPTEMBER

ZONAL MEAN PRESSURE (MB)

KM LAT =	-80	-70	-60	-50	-40	-30	-20	-10	0	10	20	30	40	50	60	70	80 DEG		
18	5.737	6.007	6.472	7.038	7.523	7.798	7.892	7.906	7.896	7.875	7.862	7.859	7.821	7.706	7.546	7.422	7.374	+ 1	
19	4.711	5.027	5.508	6.033	6.440	6.647	6.704	6.703	6.689	6.676	6.678	6.693	6.681	6.600	6.476	6.376	6.334		
20	3.858	4.199	4.685	5.172	5.515	5.669	5.700	5.691	5.676	5.669	5.680	5.707	5.709	5.653	5.557	5.475	5.439		
21	3.163	3.510	3.985	4.435	4.726	4.840	4.853	4.839	4.827	4.823	4.840	4.871	4.883	4.843	4.768	4.701	4.668		
22	2.606	2.940	3.391	3.803	4.052	4.137	4.139	4.124	4.113	4.113	4.131	4.163	4.179	4.152	4.092	4.036	4.007		
23	2.160	2.471	2.889	3.262	3.477	3.542	3.536	3.521	3.512	3.514	3.532	3.563	3.580	3.561	3.513	3.465	3.435		
24	1.804	2.086	2.464	2.799	2.985	3.036	3.026	3.012	3.006	3.008	3.025	3.053	3.070	3.056	3.017	2.976	2.952		
25	1.517	1.768	2.105	2.402	2.565	2.605	2.594	2.581	2.577	2.581	2.596	2.619	2.635	2.625	2.592	2.557	2.535		
26	1.286	1.506	1.802	2.063	2.205	2.239	2.228	2.216	2.213	2.217	2.230	2.250	2.264	2.256	2.229	2.197	2.177		
27	1.098	1.288	1.545	1.772	1.896	1.925	1.916	1.907	1.904	1.908	1.919	1.935	1.947	1.941	1.917	1.889	1.870		
28	0.942	1.106	1.327	1.523	1.631	1.658	1.651	1.643	1.641	1.644	1.653	1.666	1.676	1.671	1.651	1.625	1.607		
29	0.814	0.953	1.142	1.310	1.404	1.429	1.424	1.417	1.416	1.419	1.426	1.436	1.444	1.440	1.422	1.399	1.381		
30	0.706	0.825	0.985	1.128	1.210	1.233	1.230	1.225	1.224	1.226	1.232	1.240	1.246	1.242	1.226	1.205	1.188		
31	0.615	0.716	0.852	0.973	1.043	1.065	1.064	1.060	1.059	1.061	1.065	1.071	1.076	1.072	1.058	1.039	1.022		
32	5.368	6.227	7.375	8.396	8.996	9.202	9.216	9.191	9.179	9.188	9.221	9.261	9.300	9.265	9.143	8.963	8.800	+ 0	
33	4.701	5.431	6.399	7.256	7.769	7.963	7.994	7.978	7.965	7.969	7.994	8.030	8.051	8.018	7.908	7.740	7.583		
34	4.124	4.747	5.562	6.279	6.716	6.899	6.943	6.937	6.922	6.922	6.940	6.966	6.979	6.948	6.849	6.692	6.541		
35	3.624	4.155	4.843	5.442	5.814	5.984	6.039	6.040	6.025	6.020	6.033	6.051	6.058	6.028	5.938	5.792	5.647		
36	3.188	3.643	4.223	4.723	5.039	5.198	5.261	5.267	5.252	5.243	5.252	5.264	5.268	5.238	5.156	5.019	4.881		
37	2.807	3.198	3.689	4.105	4.373	4.521	4.589	4.601	4.585	4.574	4.578	4.586	4.584	4.558	4.483	4.355	4.224		
38	2.473	2.811	3.226	3.574	3.801	3.938	4.009	4.025	4.009	3.996	3.997	4.001	3.997	3.972	3.903	3.784	3.660		
39	2.181	2.472	2.825	3.116	3.309	3.435	3.508	3.526	3.510	3.496	3.495	3.496	3.490	3.466	3.403	3.292	3.175		
40	1.924	2.176	2.477	2.721	2.885	3.001	3.073	3.094	3.079	3.063	3.060	3.059	3.051	3.029	2.971	2.868	2.759		
41	1.698	1.917	2.174	2.378	2.519	2.625	2.696	2.718	2.704	2.688	2.682	2.680	2.672	2.651	2.598	2.502	2.400		
42	1.500	1.690	1.909	2.082	2.203	2.300	2.369	2.391	2.378	2.362	2.355	2.351	2.342	2.323	2.274	2.185	2.091		
43	1.325	1.490	1.678	1.824	1.929	2.017	2.083	2.106	2.095	2.078	2.070	2.064	2.056	2.038	1.993	1.911	1.824		
44	1.172	1.315	1.475	1.600	1.691	1.772	1.834	1.857	1.847	1.830	1.821	1.815	1.807	1.790	1.749	1.673	1.593		
45	1.037	1.160	1.298	1.404	1.484	1.557	1.616	1.639	1.629	1.613	1.604	1.597	1.589	1.574	1.536	1.467	1.393		
46	0.918	1.024	1.142	1.233	1.303	1.370	1.425	1.447	1.439	1.423	1.413	1.406	1.399	1.385	1.350	1.287	1.220		
47	0.812	0.904	1.005	1.083	1.145	1.206	1.257	1.278	1.271	1.256	1.246	1.239	1.232	1.219	1.187	1.129	1.069		
48	0.720	0.798	0.884	0.951	1.006	1.062	1.110	1.130	1.123	1.109	1.099	1.092	1.085	1.074	1.044	0.992	0.938		
49	6.375	7.042	7.775	8.355	8.847	9.359	9.795	9.981	9.927	9.796	9.695	9.625	9.563	9.455	9.188	8.719	8.233	- 1	
50	5.649	6.215	6.837	7.338	7.777	8.244	8.644	8.818	8.771	8.650	8.552	8.484	8.426	8.327	8.085	7.665	7.231		
51	5.005	5.483	6.010	6.441	6.835	7.260	7.626	7.788	7.747	7.634	7.541	7.477	7.422	7.332	7.114	6.738	6.354		
52	4.432	4.834	5.279	5.651	6.003	6.390	6.724	6.873	6.837	6.734	6.647	6.586	6.535	6.452	6.256	5.924	5.585		
53	3.924	4.260	4.634	4.954	5.269	5.620	5.924	6.069	6.029	5.935	5.855	5.797	5.750	5.674	5.499	5.206	4.909		
54	3.471	3.751	4.064	4.340	4.621	4.939	5.214	5.338	5.311	5.226	5.153	5.099	5.054	4.985	4.831	4.574	4.314		
55	3.068	3.301	3.561	3.798	4.048	4.335	4.584	4.696	4.672	4.597	4.530	4.481	4.439	4.375	4.239	4.016	3.790		
56	2.708	2.901	3.118	3.320	3.542	3.801	4.025	4.125	4.104	4.038	3.979	3.933	3.893	3.835	3.716	3.523	3.329		
57	2.387	2.547	2.727	2.899	3.096	3.328	3.529	3.618	3.600	3.542	3.490	3.448	3.410	3.357	3.254	3.088	2.922		
58	2.102	2.233	2.382	2.528	2.702	2.910	3.089	3.169	3.153	3.103	3.057	3.019	2.983	2.934	2.845	2.704	2.563		
59	1.847	1.956	2.078	2.202	2.355	2.540	2.700	2.770	2.757	2.714	2.675	2.640	2.605	2.561	2.485	2.366	2.245		
60	1.621	1.710	1.811	1.916	2.050	2.214	2.356	2.477	2.466	2.430	2.397	2.365	2.331	2.305	2.271	2.231	2.166	1.966	
61	1.419	1.493	1.577	1.665	1.782	1.928	2.052	2.166	2.096	2.066	2.038	2.009	1.976	1.940	1.886	1.803	1.719		
62	1.241	1.302	1.371	1.446	1.548	1.675	1.784	1.831	1.823	1.799	1.776	1.749	1.717	1.684	1.639	1.571	1.501		
63	1.082	1.134	1.191	1.254	1.342	1.454	1.549	1.589	1.583	1.564	1.544	1.519	1.489	1.460	1.422	1.367	1.309		
64	0.943	0.985	1.033	1.086	1.163	1.260	1.342	1.377	1.372	1.357	1.341	1.318	1.296	1.263	1.232	1.187	1.139		
65	0.819	0.855	0.895	0.940	1.006	1.090	1.161	1.190	1.187	1.176	1.163	1.142	1.115	1.090	1.066	1.030	0.990		
66	0.711	0.741	0.774	0.813	0.870	0.943	1.003	1.027	1.025	1.017	1.007	0.987	0.962	0.940	0.920	0.892	0.859		
67	6.160	6.416	6.695	7.020	7.510	8.136	8.647	8.849	8.834	8.784	8.707	8.525	8.282	8.088	7.730	7.206	6.445	- 2	
68	5.328	5.546	5.782	6.059	6.479	7.013	7.443	7.608	7.601	7.573	7.514	7.347	7.120	6.948	6.623	6.049	5.352		
69	4.601	4.788	4.988	5.225	5.584	6.038	6.396	6.529	6.527	6.517	6.474	6.321	6.111	5.958	5.661	5.226	4.636		
70	3.968	4.128	4.299	4.501	4.808	5.191	5.487	5.592	5.594	5.598	5.567	5.429	5.236	5.101	5.026	4.922	4.780		
71	3.417	3.555	3.702	3.874	4.154	4.456	4.698	4.780	4.783	4.797	4.778	4.654	4.478	4.359	4.302	4.222	4.105		
72	2.938	3.059	3.185	3.330	3.550	3.819	4.016	4.077	4.081	4.102	4.092	3.982	3.823	3.719	3.676	3.615	3.518		
73	2.523	2.629	2.738	2.860	3.045	3.268	3.426	3.471	3.474	3.500	3.497	3.400	3.258	3.168	3.135	3.088	3.007		
74	2.163	2.257	2.351	2.453	2.607	2.791	2.918	2.948	2.950	2.978	2.981	2.898	2.772	2.694	2.669	2.633	2.564		
75	1.852	1.936	2.017	2.101	2.227	2.380	2.480	2.499	2.500	2.528	2.536	2.465	2.355	2.287	2.268	2.239	2.181		
76	1.583	1.659	1.729	1.797	1.900	2.024	2.104	2.114	2.113	2.140	2.152	2.092	1.996	1.938	1.924	1.901	1.		

(1 MBAR = 100 NEWTON/M SQ)

OCTOBER

ZONAL MEAN PRESSURE (MB)

KM LAT =	-80	-70	-60	-50	-40	-30	-20	-10	0	10	20	30	40	50	60	70	80 DEG	
18	6.207	6.488	6.892	7.313	7.634	7.797	7.837	7.830	7.831	7.843	7.839	7.783	7.653	7.457	7.235	7.041	6.915	+ 1
19	5.209	5.505	5.900	6.274	6.529	6.641	6.655	6.638	6.634	6.647	6.655	6.624	6.532	6.380	6.199	6.033	5.919	
20	4.364	4.666	5.049	5.384	5.588	5.662	5.659	5.637	5.630	5.642	5.656	5.642	5.576	5.458	5.310	5.165	5.061	
21	3.660	3.956	4.320	4.620	4.785	4.833	4.820	4.796	4.787	4.798	4.815	4.810	4.763	4.670	4.546	4.420	4.325	
22	3.076	3.358	3.698	3.965	4.100	4.131	4.114	4.089	4.079	4.089	4.106	4.107	4.072	3.996	3.892	3.781	3.693	
23	2.595	2.857	3.168	3.403	3.515	3.535	3.517	3.494	3.483	3.492	3.508	3.511	3.483	3.421	3.332	3.233	3.152	
24	2.198	2.436	2.715	2.922	3.015	3.030	3.013	2.991	2.981	2.988	3.004	3.006	2.982	2.929	2.852	2.763	2.689	
25	1.870	2.083	2.330	2.509	2.588	2.600	2.585	2.565	2.556	2.563	2.576	2.578	2.555	2.509	2.441	2.362	2.293	
26	1.599	1.786	2.002	2.156	2.223	2.233	2.221	2.205	2.196	2.202	2.213	2.213	2.191	2.150	2.090	2.018	1.954	
27	1.373	1.536	1.722	1.853	1.910	1.921	1.912	1.898	1.890	1.895	1.905	1.902	1.881	1.843	1.789	1.723	1.664	
28	1.184	1.325	1.484	1.594	1.643	1.654	1.648	1.636	1.630	1.634	1.642	1.637	1.616	1.581	1.532	1.472	1.416	
29	1.026	1.146	1.280	1.373	1.414	1.426	1.423	1.413	1.407	1.411	1.417	1.411	1.389	1.357	1.313	1.257	1.205	
30	0.892	0.994	1.106	1.183	1.219	1.230	1.230	1.223	1.218	1.221	1.225	1.217	1.196	1.165	1.125	1.074	1.026	
31	0.778	0.864	0.958	1.021	1.051	1.063	1.065	1.059	1.055	1.058	1.060	1.051	1.030	1.002	0.965	0.917	0.873	
32	6.805	7.529	8.305	8.824	9.078	9.197	9.230	9.190	9.154	9.174	9.186	9.090	8.885	8.620	8.280	7.842	7.431	+ 0
33	5.969	6.575	7.215	7.636	7.850	7.968	8.012	7.987	7.956	7.970	7.970	7.870	7.673	7.426	7.113	6.709	6.328	
34	5.248	5.754	6.278	6.618	6.799	6.912	6.966	6.951	6.926	6.934	6.925	6.822	6.635	6.406	6.117	5.744	5.393	
35	4.623	5.044	5.473	5.746	5.898	6.006	6.065	6.059	6.038	6.041	6.025	5.922	5.745	5.534	5.267	4.923	4.601	
36	4.079	4.429	4.778	4.997	5.124	5.226	5.288	5.289	5.271	5.271	5.249	5.148	4.982	4.787	4.541	4.225	3.930	
37	3.604	3.895	4.179	4.353	4.460	4.555	4.618	4.624	4.609	4.606	4.579	4.481	4.327	4.148	3.921	3.631	3.362	
38	3.188	3.430	3.660	3.799	3.889	3.976	4.039	4.049	4.036	4.030	4.000	3.906	3.764	3.599	3.391	3.125	2.881	
39	2.823	3.023	3.211	3.321	3.396	3.477	3.537	3.550	3.540	3.531	3.499	3.411	3.279	3.129	2.938	2.695	2.473	
40	2.501	2.668	2.820	2.908	2.971	3.044	3.102	3.117	3.108	3.098	3.065	2.982	2.862	2.724	2.549	2.328	2.127	
41	2.218	2.356	2.480	2.550	2.603	2.670	2.725	2.741	2.733	2.722	2.688	2.611	2.501	2.375	2.215	2.014	1.833	
42	1.967	2.082	2.183	2.239	2.284	2.345	2.396	2.412	2.406	2.394	2.361	2.289	2.189	2.074	1.928	1.746	1.583	
43	1.745	1.841	1.923	1.968	2.007	2.062	2.109	2.126	2.120	2.108	2.076	2.010	1.919	1.814	1.681	1.516	1.371	
44	1.549	1.629	1.696	1.732	1.766	1.815	1.859	1.875	1.870	1.858	1.827	1.766	1.684	1.588	1.467	1.319	1.189	
45	1.375	1.441	1.496	1.526	1.555	1.599	1.639	1.654	1.651	1.638	1.610	1.554	1.479	1.393	1.282	1.149	1.034	
46	1.220	1.275	1.320	1.345	1.371	1.410	1.446	1.461	1.458	1.446	1.419	1.368	1.301	1.222	1.122	1.003	0.900	
47	1.083	1.128	1.165	1.186	1.209	1.244	1.277	1.291	1.288	1.277	1.252	1.205	1.144	1.073	0.983	0.876	0.785	
48	0.961	0.998	1.029	1.046	1.066	1.098	1.128	1.140	1.138	1.128	1.104	1.063	1.008	0.943	0.862	0.767	0.686	
49	0.852	0.883	0.908	0.922	0.940	0.969	0.996	1.007	1.006	0.996	0.975	0.937	0.887	0.829	0.756	0.671	0.601	
50	7.552	7.806	8.010	8.132	8.296	8.551	8.790	8.899	8.886	8.797	8.602	8.262	7.814	7.284	6.629	5.882	5.264	- 1
51	6.690	6.897	7.063	7.168	7.315	7.543	7.757	7.856	7.847	7.766	7.589	7.284	6.881	6.402	5.816	5.157	4.617	
52	5.922	6.090	6.225	6.315	6.447	6.651	6.842	6.931	6.924	6.852	6.692	6.419	6.056	5.625	5.102	4.523	4.053	
53	5.237	5.373	5.482	5.559	5.677	5.859	6.029	6.110	6.105	6.040	5.898	5.653	5.327	4.939	4.474	3.967	3.559	
54	4.627	4.736	4.824	4.889	4.995	5.157	5.308	5.381	5.377	5.320	5.193	4.975	4.682	4.334	3.922	3.479	3.126	
55	4.083	4.171	4.240	4.296	4.390	4.535	4.668	4.732	4.729	4.680	4.568	4.374	4.111	3.799	3.435	3.050	2.746	
56	3.600	3.669	3.724	3.770	3.855	3.983	4.101	4.157	4.154	4.111	4.013	3.841	3.605	3.326	3.006	2.673	2.411	
57	3.169	3.223	3.266	3.305	3.380	3.494	3.597	3.646	3.643	3.607	3.521	3.368	3.158	2.909	2.628	2.341	2.117	
58	2.786	2.829	2.861	2.894	2.960	3.060	3.151	3.192	3.190	3.159	3.085	2.950	2.761	2.540	2.295	2.048	1.857	
59	2.446	2.479	2.504	2.530	2.588	2.677	2.756	2.791	2.788	2.762	2.699	2.579	2.411	2.215	2.002	1.791	1.628	
60	2.145	2.170	2.188	2.210	2.260	2.338	2.406	2.435	2.432	2.411	2.357	2.252	2.102	1.929	1.744	1.564	1.426	
61	1.877	1.897	1.910	1.927	1.971	2.040	2.098	2.121	2.118	2.101	2.056	1.963	1.830	1.677	1.518	1.365	1.248	
62	1.641	1.656	1.665	1.678	1.717	1.777	1.827	1.844	1.841	1.827	1.790	1.708	1.590	1.456	1.319	1.189	1.091	
63	1.432	1.444	1.450	1.460	1.493	1.546	1.587	1.601	1.596	1.586	1.555	1.484	1.379	1.262	1.145	1.035	0.952	
64	1.248	1.257	1.261	1.268	1.297	1.343	1.377	1.386	1.382	1.374	1.349	1.288	1.194	1.092	0.992	0.900	0.831	
65	1.085	1.093	1.095	1.101	1.125	1.165	1.193	1.199	1.193	1.188	1.169	1.115	1.033	0.943	0.859	0.782	0.724	
66	0.943	0.949	0.950	0.954	0.975	1.009	1.032	1.034	1.029	1.026	1.011	0.964	0.891	0.814	0.743	0.679	0.630	
67	8.176	8.233	8.231	8.255	8.436	8.725	8.911	8.907	8.851	8.837	8.722	8.519	8.281	7.914	7.416	6.802	6.171	- 2
68	7.079	7.130	7.123	7.136	7.289	7.534	7.680	7.656	7.599	7.599	7.515	7.368	7.168	6.810	6.336	5.835	5.303	
69	6.120	6.165	6.155	6.160	6.289	6.496	6.608	6.567	6.511	6.521	6.464	6.366	6.166	5.879	5.487	5.063	4.616	
70	5.282	5.324	5.312	5.310	5.418	5.591	5.674	5.622	5.567	5.586	5.549	5.295	4.872	4.453	4.107	3.805	3.563	
71	4.551	4.590	4.578	4.571	4.659	4.804	4.863	4.803	4.751	4.775	4.755	4.540	4.174	3.817	3.532	3.284	3.081	
72	3.914	3.951	3.939	3.928	3.999	4.118	4.159	4.096	4.047	4.074	4.067	3.885	3.570	3.269	3.035	2.831	2.661	
73	3.361	3.395	3.383	3.369	3.426	3.523	3.549	3.485	3.440	3.470	3.471	3.319	3.049	2.796	2.605	2.438	2.295	
74	2.879	2.912	2.901	2.885	2.929	3.007	3.022	2.960	2.920	2.950	2.957	2.830	2.601	2.389	2.233	2.097	1.977	
75	2.462	2.492	2.483	2.465	2.498	2.560	2.567	2.510	2.474	2.503	2.514	2.408	2.215	2.039	1.913	1.802	1.701	
76	2.100	2.129	2.120	2.102	2.125	2.174	2.176	2.124	2.093	2.121	2.134	2.046	1.884	1.739	1.637	1.546	1.461	
77	1.787	1.814	1.807	1.788	1.804	1.841	1.841	1.796	1.770	1.795	1.808	1.735	1.600	1.481	1.399	1.326	1.255	
78	1.517	1.542	1.536	1.517	1.527	1.557	1.555	1.517	1.496	1.518	1.530	1.470	1.358	1.261	1.196	1.136	1.077	
79	1.283	1.307	1.303	1.285	1.291	1.314	1.313	1.282	1.265	1.284	1.295	1.244	1.152	1.073	1.021	0.973	0.924	
80	1.083	1.105	1.102	1.086	1.090	1.109	1.109	1.084	1.071	1.087	1.095	1.053	0.977	0.912	0.872	0.834	0.794	

(1 MBAR = 100 NEWTON/M SQ)

NOVEMBER

ZONAL MEAN PRESSURE (MB)

KN LAT =	-80	-70	-60	-50	-40	-30	-20	-10	0	10	20	30	40	50	60	70	80 DEG
18	6.755	7.018	7.336	7.623	7.831	7.937	7.939	7.887	7.855	7.864	7.851	7.742	7.539	7.303	7.074	6.863	6.698 + 1
19	5.812	6.035	6.298	6.520	6.686	6.729	6.715	6.668	6.641	6.651	6.649	6.576	6.425	6.235	6.038	5.847	5.697
20	5.001	5.189	5.406	5.578	5.679	5.712	5.690	5.647	5.625	5.633	5.637	5.588	5.475	5.321	5.148	4.975	4.838
21	4.305	4.461	4.641	4.773	4.842	4.855	4.830	4.793	4.773	4.780	4.786	4.753	4.667	4.540	4.387	4.228	4.101
22	3.709	3.843	3.987	4.087	4.132	4.134	4.109	4.076	4.059	4.063	4.070	4.047	3.980	3.872	3.736	3.589	3.471
23	3.199	3.311	3.427	3.502	3.530	3.526	3.502	3.474	3.458	3.462	3.468	3.451	3.396	3.303	3.180	3.045	2.935
24	2.763	2.856	2.949	3.003	3.019	3.012	2.992	2.968	2.953	2.956	2.961	2.947	2.899	2.817	2.706	2.581	2.479
25	2.389	2.467	2.540	2.578	2.585	2.577	2.560	2.540	2.528	2.529	2.533	2.520	2.477	2.403	2.302	2.187	2.092
26	2.069	2.134	2.191	2.216	2.217	2.209	2.196	2.179	2.168	2.169	2.172	2.158	2.118	2.050	1.958	1.853	1.764
27	1.795	1.849	1.892	1.907	1.904	1.897	1.887	1.872	1.863	1.864	1.865	1.850	1.812	1.750	1.666	1.569	1.488
28	1.560	1.604	1.637	1.644	1.638	1.632	1.624	1.613	1.604	1.605	1.605	1.589	1.551	1.494	1.417	1.329	1.255
29	1.358	1.394	1.418	1.420	1.412	1.407	1.401	1.391	1.384	1.385	1.383	1.366	1.330	1.276	1.206	1.126	1.058
30	1.184	1.213	1.230	1.228	1.219	1.214	1.210	1.203	1.197	1.197	1.194	1.176	1.141	1.091	1.027	0.955	0.894
31	1.033	1.057	1.070	1.064	1.054	1.050	1.048	1.041	1.037	1.037	1.033	1.014	0.980	0.933	0.875	0.810	0.755
32	9.036	9.233	9.313	9.236	9.138	9.103	9.084	9.035	8.996	8.995	8.951	8.761	8.424	7.991	7.468	6.883	6.390 + 0
33	7.913	8.074	8.123	8.034	7.935	7.903	7.890	7.851	7.820	7.818	7.767	7.576	7.253	6.851	6.378	5.855	5.416
34	6.940	7.071	7.097	7.001	6.905	6.874	6.865	6.834	6.810	6.806	6.750	6.562	6.254	5.882	5.455	4.988	4.600
35	6.095	6.202	6.211	6.113	6.020	5.990	5.983	5.959	5.939	5.934	5.876	5.692	5.401	5.058	4.672	4.258	3.915
36	5.361	5.448	5.445	5.348	5.258	5.229	5.223	5.203	5.188	5.182	5.122	4.945	4.672	4.356	4.009	3.641	3.339
37	4.721	4.791	4.780	4.687	4.602	4.573	4.567	4.550	4.538	4.532	4.472	4.303	4.048	3.758	3.446	3.121	2.856
38	4.162	4.220	4.203	4.114	4.035	4.006	4.000	3.985	3.975	3.969	3.910	3.750	3.513	3.248	2.968	2.681	2.449
39	3.674	3.721	3.701	3.618	3.543	3.516	3.508	3.495	3.487	3.480	3.423	3.273	3.054	2.813	2.562	2.308	2.105
40	3.246	3.285	3.263	3.186	3.117	3.089	3.081	3.069	3.062	3.055	3.001	2.861	2.660	2.440	2.215	1.992	1.815
41	2.871	2.903	2.880	2.809	2.745	2.719	2.709	2.698	2.692	2.685	2.634	2.505	2.320	2.121	1.920	1.723	1.568
42	2.542	2.567	2.545	2.480	2.421	2.396	2.385	2.374	2.369	2.362	2.314	2.196	2.027	1.846	1.667	1.494	1.359
43	2.252	2.273	2.251	2.191	2.138	2.113	2.102	2.091	2.086	2.079	2.035	1.927	1.773	1.610	1.450	1.298	1.181
44	1.997	2.013	1.992	1.938	1.890	1.866	1.854	1.843	1.838	1.832	1.792	1.693	1.553	1.406	1.264	1.130	1.028
45	1.771	1.785	1.765	1.716	1.671	1.649	1.636	1.626	1.621	1.616	1.579	1.489	1.362	1.230	1.104	0.986	0.897
46	1.572	1.583	1.563	1.519	1.479	1.457	1.445	1.435	1.430	1.425	1.392	1.310	1.196	1.077	0.965	0.862	0.784
47	1.396	1.404	1.386	1.346	1.309	1.289	1.277	1.267	1.262	1.258	1.227	1.154	1.051	0.944	0.845	0.755	0.687
48	1.239	1.245	1.228	1.192	1.159	1.140	1.128	1.118	1.114	1.110	1.083	1.016	0.924	0.828	0.740	0.661	0.603
49	1.101	1.105	1.089	1.056	1.026	1.008	0.997	0.987	0.983	0.980	0.955	0.895	0.812	0.727	0.649	0.580	0.529
50	9.774	9.801	9.647	9.349	9.081	8.918	8.805	8.713	8.676	8.645	8.427	7.889	7.141	6.382	5.695	5.094	4.650 - 1
51	8.678	8.691	8.545	8.275	8.033	7.882	7.775	7.688	7.654	7.627	7.432	6.949	6.278	5.603	4.999	4.474	4.089
52	7.701	7.704	7.565	7.320	7.102	6.963	6.862	6.780	6.749	6.726	6.551	6.118	5.518	4.919	4.388	3.931	3.597
53	6.831	6.824	6.692	6.470	6.273	6.147	6.051	5.975	5.946	5.927	5.772	5.383	4.847	4.316	3.852	3.454	3.164
54	6.055	6.041	5.916	5.713	5.536	5.421	5.332	5.261	5.235	5.219	5.080	4.732	4.254	3.785	3.379	3.035	2.783
55	5.363	5.342	5.224	5.040	4.880	4.775	4.693	4.628	4.605	4.592	4.468	4.156	3.731	3.317	2.963	2.665	2.446
56	4.745	4.720	4.607	4.440	4.297	4.202	4.126	4.066	4.046	4.035	3.924	3.646	3.268	2.905	2.597	2.338	2.149
57	4.194	4.165	4.059	3.907	3.778	3.692	3.623	3.568	3.550	3.541	3.443	3.195	2.860	2.541	2.274	2.050	1.886
58	3.703	3.671	3.571	3.433	3.318	3.240	3.177	3.126	3.111	3.104	3.016	2.795	2.499	2.220	1.989	1.796	1.654
59	3.264	3.231	3.137	3.011	2.909	2.839	2.782	2.736	2.721	2.716	2.639	2.442	2.181	1.937	1.738	1.572	1.449
60	2.874	2.839	2.751	2.637	2.546	2.484	2.432	2.390	2.377	2.373	2.305	2.131	1.901	1.689	1.517	1.374	1.268
61	2.526	2.491	2.409	2.306	2.225	2.170	2.123	2.084	2.072	2.069	2.010	1.856	1.654	1.470	1.323	1.200	1.108
62	2.216	2.182	2.106	2.013	1.941	1.892	1.850	1.814	1.803	1.801	1.750	1.615	1.438	1.278	1.152	1.046	0.967
63	1.941	1.908	1.837	1.754	1.690	1.648	1.609	1.577	1.566	1.565	1.520	1.402	1.248	1.110	1.002	0.912	0.843
64	1.697	1.665	1.600	1.525	1.469	1.432	1.398	1.367	1.357	1.357	1.319	1.216	1.082	0.963	0.871	0.793	0.733
65	1.481	1.451	1.391	1.323	1.274	1.242	1.212	1.184	1.174	1.174	1.141	1.053	0.936	0.835	0.756	0.690	0.638
66	1.289	1.261	1.207	1.146	1.103	1.076	1.048	1.022	1.013	1.013	0.986	0.910	0.809	0.722	0.656	0.599	0.554
67	1.120	1.094	1.045	0.991	0.953	0.930	0.905	0.881	0.872	0.873	0.851	0.785	0.699	0.625	0.568	0.519	0.480
68	9.708	9.474	9.028	8.546	8.220	8.020	7.803	7.581	7.492	7.501	7.322	6.765	6.027	5.395	4.918	4.502	4.160 - 2
69	8.395	8.185	7.784	7.356	7.073	6.903	6.711	6.507	6.421	6.433	6.290	5.820	5.191	4.655	4.253	3.898	3.600
70	7.242	7.055	6.697	6.318	6.022	5.929	5.760	5.573	5.491	5.504	5.393	4.998	4.465	4.013	3.675	3.372	3.113
71	6.231	6.067	5.749	5.414	5.201	5.081	4.933	4.763	4.685	4.699	4.614	4.286	3.836	3.456	3.173	2.915	2.690
72	5.346	5.204	4.924	4.628	4.444	4.343	4.215	4.062	3.989	4.004	3.941	3.669	3.291	2.973	2.737	2.518	2.322
73	4.573	4.451	4.206	3.947	3.788	3.704	3.593	3.457	3.390	3.405	3.359	3.136	2.820	2.555	2.359	2.173	2.003
74	3.900	3.797	3.584	3.358	3.221	3.150	3.056	2.936	2.876	2.891	2.858	2.675	2.413	2.193	2.031	1.873	1.726
75	3.315	3.229	3.046	2.849	2.731	2.673	2.594	2.490	2.437	2.450	2.427	2.279	2.062	1.881	1.747	1.614	1.487
76	2.807	2.736	2.580	2.411	2.310	2.262	2.196	2.108	2.062	2.074	2.059	1.938	1.759	1.611	1.502	1.389	1.281
77	2.367	2.310	2.179	2.035	1.949	1.910	1.856	1.782	1.744	1.755	1.744	1.646	1.500	1.379	1.289	1.195	1.102
78	1.987	1.942	1.833	1.712	1.640	1.609	1.567	1.507	1.475	1.484	1.476	1.397	1.277	1.179	1.106	1.028	0.949
79	1.660	1.625	1.537	1.436	1.377	1.354	1.322	1.274	1.248	1.256	1.250	1.184	1.087	1.008	0.949	0.884	0.817
80	1.379	1.353	1.282	1.201	1.154	1.138	1.115	1.078	1.058	1.064	1.059	1.004	0.925	0.861	0.815	0.761	0.703

(1 MBAR = 100 NEWTON/M SQ)

DECEMBER

ZONAL MEAN PRESSURE (MB)

KM LAT =	-80	-70	-60	-50	-40	-30	-20	-10	0	10	20	30	40	50	60	70	80 DEG	
18	7.330	7.384	7.489	7.649	7.826	7.944	7.953	7.898	7.863	7.866	7.832	7.691	7.457	7.190	6.921	6.656	6.440	+ 1
19	6.332	6.370	6.441	6.546	6.660	6.728	6.721	6.673	6.646	6.650	6.629	6.528	6.351	6.135	5.896	5.643	5.434	
20	5.473	5.497	5.542	5.607	5.674	5.709	5.692	5.650	5.628	5.631	5.616	5.542	5.409	5.233	5.018	4.777	4.575	
21	4.732	4.746	4.770	4.805	4.841	4.854	4.831	4.794	4.774	4.775	4.764	4.710	4.609	4.464	4.268	4.039	3.843	
22	4.094	4.100	4.108	4.122	4.136	4.134	4.109	4.076	4.058	4.057	4.047	4.008	3.930	3.808	3.630	3.412	3.225	
23	3.545	3.544	3.541	3.540	3.538	3.527	3.502	3.472	3.456	3.453	3.445	3.415	3.354	3.250	3.087	2.881	2.704	
24	3.072	3.067	3.055	3.043	3.031	3.015	2.990	2.964	2.949	2.945	2.938	2.914	2.865	2.775	2.625	2.432	2.266	
25	2.665	2.656	2.639	2.619	2.601	2.582	2.558	2.535	2.521	2.517	2.510	2.491	2.450	2.370	2.232	2.054	1.900	
26	2.314	2.303	2.282	2.258	2.236	2.215	2.195	2.173	2.160	2.155	2.149	2.133	2.097	2.025	1.899	1.735	1.594	
27	2.011	1.999	1.976	1.949	1.925	1.904	1.884	1.865	1.854	1.850	1.844	1.829	1.797	1.731	1.615	1.466	1.338	
28	1.750	1.737	1.714	1.685	1.660	1.640	1.621	1.605	1.595	1.591	1.585	1.571	1.541	1.480	1.375	1.240	1.126	
29	1.524	1.512	1.488	1.460	1.435	1.415	1.397	1.383	1.374	1.371	1.365	1.352	1.323	1.267	1.171	1.050	0.948	
30	1.330	1.317	1.294	1.267	1.242	1.223	1.207	1.194	1.186	1.183	1.178	1.165	1.137	1.084	0.997	0.890	0.801	
31	1.161	1.150	1.128	1.101	1.077	1.059	1.044	1.033	1.026	1.024	1.019	1.005	0.978	0.929	0.850	0.755	0.677	
32	1.016	1.005	0.984	0.959	0.936	0.919	0.905	0.895	0.889	0.887	0.883	0.869	0.842	0.796	0.726	0.642	0.574	+ 0
33	0.893	0.791	0.598	0.361	0.150	7.990	7.864	7.768	7.719	7.703	7.659	7.525	7.265	6.832	6.198	5.468	4.683	
34	7.798	7.704	7.526	7.306	7.109	6.959	6.841	6.754	6.711	6.700	6.659	6.527	6.273	5.868	5.301	4.665	4.162	
35	6.846	6.762	6.598	6.395	6.211	6.071	5.962	5.882	5.844	5.836	5.798	5.670	5.425	5.047	4.540	3.987	3.556	
36	6.019	5.942	5.794	5.606	5.437	5.306	5.204	5.130	5.097	5.092	5.058	4.934	4.698	4.346	3.893	3.414	3.047	
37	5.298	5.230	5.095	4.923	4.766	4.645	4.550	4.481	4.452	4.449	4.418	4.300	4.074	3.749	3.345	2.930	2.617	
38	4.670	4.609	4.486	4.330	4.185	4.072	3.983	3.919	3.893	3.893	3.865	3.753	3.539	3.238	2.879	2.520	2.253	
39	4.121	4.066	3.956	3.813	3.680	3.576	3.492	3.433	3.409	3.410	3.386	3.280	3.079	2.802	2.482	2.171	1.944	
40	3.641	3.592	3.492	3.362	3.240	3.144	3.066	3.010	2.988	2.991	2.970	2.872	2.683	2.429	2.144	1.875	1.682	
41	3.220	3.177	3.087	2.968	2.857	2.767	2.695	2.642	2.622	2.626	2.608	2.517	2.342	2.108	1.855	1.623	1.458	
42	2.852	2.813	2.731	2.623	2.521	2.439	2.371	2.322	2.303	2.308	2.292	2.209	2.046	1.834	1.608	1.407	1.266	
43	2.527	2.493	2.418	2.320	2.227	2.151	2.088	2.042	2.025	2.030	2.017	1.940	1.791	1.597	1.397	1.222	1.102	
44	2.242	2.211	2.143	2.054	1.969	1.899	1.841	1.798	1.782	1.787	1.774	1.706	1.569	1.393	1.215	1.063	0.961	
45	1.990	1.962	1.901	1.819	1.741	1.677	1.624	1.583	1.568	1.574	1.565	1.501	1.376	1.217	1.059	0.927	0.839	
46	1.768	1.742	1.686	1.612	1.541	1.483	1.433	1.396	1.382	1.387	1.380	1.322	1.207	1.064	0.924	0.809	0.733	
47	1.572	1.548	1.497	1.429	1.364	1.311	1.265	1.231	1.218	1.223	1.217	1.164	1.060	0.931	0.807	0.707	0.642	
48	1.398	1.376	1.329	1.267	1.208	1.159	1.117	1.085	1.073	1.078	1.073	1.026	0.931	0.816	0.706	0.619	0.563	
49	1.243	1.223	1.180	1.123	1.070	1.025	0.987	0.957	0.946	0.951	0.947	0.904	0.818	0.715	0.618	0.542	0.494	
50	1.106	1.087	1.047	0.996	0.947	0.907	0.872	0.845	0.835	0.839	0.835	0.796	0.719	0.627	0.542	0.476	0.433	- 1
51	0.984	0.963	0.926	0.882	0.838	0.808	0.782	0.752	0.740	0.742	0.736	0.707	0.631	0.549	0.478	0.412	0.384	
52	0.753	0.738	0.708	0.674	0.641	0.618	0.596	0.572	0.562	0.569	0.569	0.543	0.465	0.384	0.313	0.246	0.223	
53	0.784	0.768	0.734	0.697	0.665	0.642	0.620	0.597	0.584	0.584	0.578	0.552	0.474	0.393	0.322	0.255	0.237	
54	0.919	0.773	0.681	0.618	0.571	0.544	0.528	0.506	0.501	0.503	0.503	0.476	0.425	0.363	0.309	0.253	0.231	
55	0.616	0.609	0.579	0.547	0.511	0.481	0.459	0.439	0.439	0.439	0.433	0.419	0.372	0.321	0.283	0.248	0.226	
56	0.456	0.456	0.436	0.416	0.396	0.376	0.356	0.336	0.336	0.336	0.332	0.319	0.282	0.245	0.215	0.192	0.172	
57	0.838	0.716	0.485	0.208	3.967	3.775	3.607	3.477	3.435	3.458	3.421	3.207	2.846	2.466	2.149	1.908	1.749	
58	4.286	4.171	3.958	3.705	3.488	3.317	3.167	3.053	3.017	3.038	3.001	2.803	2.481	2.151	1.879	1.672	1.534	
59	3.792	3.685	3.488	3.257	3.062	2.910	2.778	2.678	2.647	2.665	2.628	2.447	2.161	1.874	1.642	1.465	1.345	
60	3.350	3.250	3.068	2.859	2.684	2.549	2.432	2.345	2.319	2.335	2.299	2.133	1.879	1.631	1.434	1.283	1.179	
61	2.955	2.862	2.695	2.505	2.348	2.229	2.126	2.050	2.028	2.043	2.007	1.857	1.632	1.418	1.251	1.122	1.032	
62	2.602	2.516	2.363	2.190	2.050	1.945	1.855	1.789	1.771	1.784	1.750	1.614	1.415	1.232	1.090	0.980	0.902	
63	2.286	2.207	2.067	1.911	1.786	1.694	1.616	1.558	1.544	1.555	1.523	1.400	1.226	1.068	0.949	0.856	0.788	
64	2.005	1.932	1.805	1.664	1.553	1.472	1.404	1.355	1.343	1.353	1.323	1.213	1.061	0.926	0.825	0.746	0.687	
65	1.754	1.688	1.572	1.446	1.347	1.276	1.218	1.175	1.166	1.175	1.147	1.049	0.917	0.801	0.717	0.650	0.599	
66	1.531	1.471	1.367	1.253	1.165	1.104	1.054	1.017	1.010	1.017	0.993	0.906	0.791	0.693	0.622	0.565	0.521	
67	1.333	1.278	1.185	1.083	1.006	0.952	0.910	0.879	0.872	0.879	0.857	0.782	0.682	0.599	0.540	0.491	0.453	
68	1.157	1.108	1.024	0.934	0.866	0.820	0.783	0.757	0.752	0.758	0.738	0.673	0.588	0.518	0.467	0.426	0.393	
69	1.002	0.958	0.883	0.803	0.743	0.704	0.673	0.651	0.646	0.651	0.635	0.579	0.506	0.447	0.405	0.370	0.341	
70	0.844	0.755	0.589	0.482	0.362	0.308	0.268	0.238	0.238	0.243	0.235	0.179	0.123	0.081	0.051	0.031	0.021	- 2
71	7.433	7.090	6.503	5.882	5.432	5.150	4.932	4.771	4.738	4.775	4.659	4.256	3.736	3.318	3.024	2.771	2.554	
72	6.369	6.068	5.554	5.012	4.624	4.388	4.207	4.071	4.039	4.072	3.977	3.641	3.205	2.856	2.611	2.395	2.207	
73	5.436	5.174	4.727	4.257	3.926	3.730	3.581	3.466	3.437	3.465	3.388	3.109	2.747	2.456	2.252	2.068	1.907	
74	4.620	4.395	4.008	3.605	3.324	3.162	3.041	2.944	2.918	2.940	2.879	2.651	2.351	2.110	1.940	1.785	1.646	
75	3.909	3.717	3.385	3.042	2.806	2.675	2.578	2.497	2.472	2.490	2.442	2.256	2.009	1.811	1.670	1.539	1.420	
76	3.292	3.129	2.848	2.558	2.363	2.258	2.181	2.114	2.091	2.106	2.068	1.917	1.714	1.552	1.436	1.326	1.225	
77	2.758	2																

(1 MBAR = 100 NEWTON/M SQ)

JANUARY

ZONAL MEAN DENSITY (KG/M CU)

KN LAT =	-80	-70	-60	-50	-40	-30	-20	-10	0	10	20	30	40	50	60	70	80 DEG	
18	1.117	1.124	1.152	1.207	1.274	1.326	1.347	1.348	1.348	1.344	1.319	1.263	1.193	1.140	1.116	1.110	1.111	- 1
19	0.965	0.970	0.991	1.030	1.077	1.112	1.126	1.128	1.130	1.132	1.115	1.073	1.019	0.976	0.955	0.950	0.949	
20	8.318	8.359	8.512	8.793	9.116	9.349	9.437	9.453	9.487	9.512	9.402	9.090	8.674	8.330	8.142	8.070	8.042	- 2
21	7.165	7.197	7.308	7.507	7.730	7.883	7.934	7.942	7.969	7.992	7.915	7.686	7.372	7.096	6.923	6.827	6.768	
22	6.170	6.193	6.272	6.412	6.564	6.661	6.688	6.687	6.704	6.720	6.664	6.499	6.264	6.043	5.878	5.758	5.672	
23	5.313	5.328	5.384	5.480	5.580	5.640	5.650	5.642	5.648	5.656	5.617	5.499	5.327	5.147	4.988	4.849	4.742	
24	4.575	4.585	4.622	4.686	4.750	4.784	4.782	4.769	4.767	4.769	4.741	4.660	4.535	4.387	4.233	4.081	3.959	
25	3.942	3.947	3.970	4.010	4.049	4.064	4.055	4.038	4.031	4.029	4.010	3.956	3.866	3.743	3.594	3.435	3.305	
26	3.398	3.399	3.411	3.435	3.455	3.458	3.443	3.425	3.415	3.410	3.398	3.364	3.300	3.197	3.054	2.893	2.762	
27	2.931	2.929	2.934	2.944	2.952	2.946	2.929	2.910	2.898	2.893	2.886	2.866	2.820	2.732	2.597	2.440	2.311	
28	2.529	2.525	2.525	2.527	2.525	2.514	2.495	2.477	2.464	2.459	2.456	2.446	2.413	2.337	2.211	2.061	1.938	
29	2.185	2.179	2.175	2.171	2.162	2.148	2.128	2.111	2.099	2.094	2.094	2.090	2.066	2.001	1.885	1.744	1.630	
30	1.889	1.883	1.875	1.867	1.855	1.837	1.818	1.802	1.791	1.787	1.788	1.788	1.771	1.713	1.608	1.479	1.374	
31	1.634	1.628	1.619	1.608	1.593	1.574	1.556	1.541	1.531	1.528	1.530	1.532	1.518	1.468	1.374	1.257	1.162	
32	1.415	1.409	1.399	1.386	1.370	1.351	1.333	1.319	1.311	1.308	1.311	1.313	1.303	1.259	1.175	1.071	0.986	
33	1.226	1.221	1.211	1.197	1.180	1.161	1.144	1.131	1.124	1.123	1.125	1.127	1.118	1.080	1.006	0.914	0.838	
34	1.064	1.059	1.049	1.035	1.018	0.999	0.983	0.972	0.966	0.965	0.967	0.969	0.960	0.927	0.863	0.782	0.715	
35	9.245	9.196	9.104	8.966	8.794	8.617	8.465	8.361	8.311	8.302	8.319	8.330	8.252	7.964	7.404	6.699	6.121	- 3
36	8.041	7.998	7.911	7.777	7.611	7.441	7.299	7.205	7.162	7.157	7.169	7.171	7.097	6.846	6.363	5.753	5.250	
37	7.002	6.966	6.885	6.757	6.599	6.438	6.305	6.219	6.183	6.180	6.187	6.180	6.109	5.891	5.476	4.950	4.514	
38	6.106	6.075	6.002	5.881	5.731	5.579	5.455	5.377	5.346	5.344	5.347	5.333	5.265	5.074	4.719	4.267	3.890	
39	5.333	5.307	5.240	5.127	4.985	4.844	4.728	4.657	4.630	4.629	4.629	4.609	4.543	4.377	4.073	3.684	3.358	
40	4.664	4.643	4.583	4.478	4.345	4.213	4.106	4.040	4.017	4.017	4.013	3.990	3.926	3.781	3.520	3.186	2.904	
41	4.086	4.069	4.015	3.917	3.794	3.671	3.571	3.511	3.491	3.491	3.486	3.466	3.399	3.272	3.047	2.759	2.515	
42	3.585	3.572	3.523	3.433	3.318	3.204	3.112	3.057	3.039	3.039	3.033	3.006	2.948	2.836	2.642	2.393	2.181	
43	3.151	3.140	3.096	3.013	2.908	2.802	2.717	2.666	2.650	2.651	2.644	2.616	2.563	2.463	2.294	2.078	1.893	
44	2.774	2.766	2.726	2.650	2.552	2.455	2.376	2.329	2.315	2.316	2.309	2.283	2.232	2.143	1.996	1.807	1.645	
45	2.446	2.440	2.404	2.334	2.244	2.154	2.082	2.039	2.025	2.027	2.021	1.996	1.949	1.869	1.739	1.573	1.431	
46	2.161	2.156	2.124	2.059	1.976	1.894	1.827	1.787	1.775	1.777	1.772	1.749	1.705	1.633	1.517	1.371	1.246	
47	1.912	1.908	1.879	1.820	1.743	1.668	1.606	1.569	1.558	1.561	1.557	1.535	1.495	1.429	1.326	1.196	1.085	
48	1.695	1.691	1.664	1.610	1.540	1.471	1.414	1.380	1.370	1.373	1.370	1.351	1.314	1.253	1.160	1.044	0.946	
49	1.504	1.501	1.477	1.427	1.363	1.299	1.247	1.215	1.206	1.210	1.208	1.191	1.156	1.101	1.017	0.913	0.826	
50	1.337	1.334	1.311	1.266	1.207	1.149	1.101	1.072	1.064	1.068	1.067	1.052	1.019	0.968	0.892	0.799	0.721	
51	1.190	1.187	1.166	1.124	1.070	1.017	0.973	0.947	0.939	0.943	0.944	0.930	0.900	0.852	0.783	0.700	0.631	
52	1.060	1.057	1.038	0.999	0.950	0.901	0.861	0.837	0.830	0.835	0.836	0.823	0.795	0.751	0.688	0.613	0.552	
53	9.458	9.427	9.245	8.889	8.440	7.996	7.631	7.407	7.348	7.397	7.406	7.291	7.028	6.618	6.044	5.378	4.832	- 4
54	8.444	8.411	8.240	7.912	7.502	7.098	6.765	6.561	6.509	6.552	6.568	6.460	6.213	5.833	5.313	4.719	4.236	
55	7.543	7.509	7.348	7.045	6.671	6.303	6.001	5.816	5.770	5.811	5.827	5.725	5.491	5.140	4.671	4.143	3.717	
56	6.741	6.706	6.554	6.274	5.932	5.599	5.325	5.158	5.117	5.157	5.170	5.071	4.850	4.525	4.105	3.639	3.265	
57	6.027	5.990	5.846	5.587	5.275	4.973	4.726	4.576	4.540	4.577	4.586	4.488	4.278	3.981	3.606	3.197	2.870	
58	5.389	5.351	5.214	4.974	4.689	4.416	4.194	4.060	4.029	4.062	4.066	3.969	3.769	3.497	3.165	2.809	2.525	
59	4.819	4.779	4.649	4.426	4.166	3.919	3.721	3.602	3.575	3.604	3.602	3.504	3.315	3.068	2.776	2.468	2.223	
60	4.307	4.267	4.143	3.936	3.698	3.476	3.299	3.194	3.172	3.196	3.188	3.090	2.911	2.687	2.432	2.167	1.959	
61	3.849	3.808	3.689	3.497	3.279	3.079	2.923	2.832	2.813	2.833	2.818	2.720	2.551	2.349	2.128	1.903	1.726	
62	3.438	3.397	3.283	3.103	2.904	2.724	2.587	2.508	2.493	2.508	2.488	2.389	2.231	2.050	1.859	1.670	1.520	
63	3.068	3.027	2.918	2.750	2.567	2.407	2.286	2.219	2.208	2.219	2.193	2.095	1.947	1.785	1.623	1.464	1.339	
64	2.736	2.695	2.591	2.433	2.266	2.122	2.018	1.962	1.953	1.960	1.930	1.834	1.696	1.552	1.414	1.282	1.179	
65	2.437	2.397	2.297	2.150	1.996	1.868	1.778	1.731	1.725	1.729	1.696	1.602	1.474	1.347	1.231	1.121	1.036	
66	2.169	2.129	2.033	1.895	1.754	1.640	1.563	1.525	1.521	1.523	1.487	1.397	1.280	1.168	1.069	0.980	0.910	
67	1.928	1.888	1.797	1.667	1.538	1.437	1.371	1.341	1.340	1.339	1.302	1.217	1.109	1.011	0.928	0.855	0.798	
68	1.711	1.672	1.585	1.464	1.345	1.255	1.200	1.177	1.175	1.175	1.138	1.058	0.960	0.874	0.804	0.745	0.698	
69	1.515	1.478	1.395	1.282	1.173	1.094	1.048	1.031	1.032	1.029	0.993	0.919	0.831	0.755	0.697	0.647	0.610	
70	1.340	1.304	1.225	1.120	1.021	0.951	0.912	0.900	0.903	0.899	0.865	0.797	0.718	0.652	0.602	0.562	0.531	
71	1.182	1.148	1.074	0.975	0.885	0.824	0.792	0.784	0.788	0.784	0.752	0.690	0.620	0.563	0.521	0.487	0.462	
72	1.041	1.008	0.938	0.847	0.766	0.712	0.686	0.681	0.685	0.682	0.652	0.597	0.536	0.486	0.450	0.422	0.401	
73	9.137	8.825	8.176	7.340	6.604	6.134	5.923	5.895	5.941	5.909	5.648	5.162	4.623	4.189	3.880	3.642	3.465	- 5
74	7.995	7.704	7.104	6.340	5.679	5.270	5.099	5.087	5.134	5.106	4.878	4.456	3.989	3.613	3.346	3.143	2.992	
75	6.970	6.702	6.152	5.459	4.870	4.515	4.376	4.375	4.420	4.397	4.202	3.841	3.439	3.115	2.884	2.709	2.580	
76	6.052	5.808	5.308	4.685	4.165	3.859	3.745	3.749	3.790	3.772	3.610	3.304	2.962	2.684	2.484	2.333	2.221	
77	5.231	5.011	4.562	4.008	3.552	3.290	3.195	3.201	3.236	3.223	3.090	2.835	2.546	2.309	2.139	2.008	1.912	
78	4.497	4.303	3.905	3.418	3.022	2.798	2.719	2.722	2.750	2.741	2.634	2.424	2.183	1.984	1.840	1.729	1.647	
79	3.844	3.675	3.327	2.905	2.565	2.375	2.308	2.306	2.326	2.319	2.235	2.065	1.865	1.699	1.581	1.489	1.421	
80	3.264	3.120	2.821	2.460	2.172	2.013	1.954	1.946	1.957	1.951	1.887	1.749	1.585	1.450	1.356	1.285	1.230	

FEBRUARY

ZONAL MEAN DENSITY (KG/M CU)

KM LAT =	-80	-70	-60	-50	-40	-30	-20	-10	0	10	20	30	40	50	60	70	80 DEG	
18	1.102	1.122	1.162	1.221	1.282	1.325	1.346	1.356	1.364	1.363	1.335	1.275	1.201	1.137	1.096	1.073	1.060	- 1
19	0.951	0.968	1.000	1.044	1.088	1.117	1.130	1.137	1.146	1.149	1.130	1.084	1.025	0.974	0.940	0.922	0.913	
20	8.197	8.331	8.584	8.920	9.232	9.420	9.491	9.537	9.611	9.648	9.519	9.181	8.732	8.324	8.043	7.877	7.786	- 2
21	7.058	7.162	7.359	7.615	7.837	7.953	7.980	8.001	8.055	8.087	8.000	7.760	7.430	7.113	6.869	6.700	6.592	
22	6.073	6.152	6.305	6.499	6.657	6.722	6.720	6.754	6.778	6.721	6.555	6.320	6.078	5.862	5.685	5.560		
23	5.223	5.282	5.401	5.549	5.659	5.690	5.668	5.654	5.673	5.688	5.650	5.540	5.378	5.193	5.002	4.820	4.681	
24	4.491	4.536	4.627	4.740	4.816	4.823	4.789	4.767	4.774	4.782	4.757	4.687	4.580	4.439	4.267	4.085	3.941	
25	3.862	3.895	3.966	4.051	4.102	4.094	4.055	4.027	4.026	4.030	4.014	3.972	3.902	3.794	3.641	3.465	3.322	
26	3.321	3.346	3.401	3.465	3.498	3.481	3.439	3.410	3.404	3.404	3.395	3.371	3.328	3.244	3.108	2.942	2.805	
27	2.857	2.876	2.919	2.967	2.986	2.963	2.922	2.893	2.885	2.884	2.878	2.867	2.840	2.774	2.634	2.501	2.373	
28	2.459	2.474	2.507	2.542	2.552	2.527	2.488	2.460	2.450	2.448	2.446	2.441	2.425	2.372	2.267	2.130	2.013	
29	2.117	2.129	2.155	2.180	2.183	2.158	2.122	2.096	2.086	2.084	2.083	2.071	2.028	1.937	1.816	1.712		
30	1.823	1.834	1.854	1.872	1.871	1.846	1.812	1.788	1.779	1.778	1.779	1.779	1.771	1.734	1.656	1.550	1.459	
31	1.572	1.582	1.597	1.609	1.605	1.581	1.551	1.529	1.520	1.520	1.521	1.522	1.514	1.483	1.416	1.325	1.247	
32	1.356	1.365	1.377	1.385	1.378	1.356	1.329	1.309	1.301	1.302	1.304	1.304	1.296	1.269	1.212	1.134	1.067	
33	1.171	1.179	1.189	1.193	1.185	1.165	1.141	1.123	1.116	1.117	1.119	1.118	1.110	1.085	1.037	0.972	0.914	
34	1.012	1.020	1.027	1.029	1.021	1.003	0.981	0.965	0.959	0.960	0.962	0.960	0.951	0.929	0.889	0.834	0.785	
35	0.761	0.832	0.890	0.890	0.807	0.646	0.453	0.303	0.247	0.265	0.286	0.257	0.157	0.089	0.034	0.000		- 3
36	7.591	7.457	7.203	7.691	7.609	7.466	7.294	7.157	7.107	7.127	7.147	7.109	7.004	6.824	6.533	6.147	5.794	
37	6.586	6.448	6.684	6.663	6.585	6.458	6.305	6.180	6.134	6.157	6.175	6.131	6.022	5.857	5.610	5.283	4.985	
38	5.723	5.779	5.807	5.781	5.708	5.596	5.459	5.345	5.304	5.327	5.343	5.295	5.185	5.034	4.821	4.544	4.289	
39	4.980	5.032	5.054	5.025	4.957	4.857	4.736	4.632	4.595	4.618	4.632	4.581	4.473	4.333	4.148	3.911	3.691	
40	4.340	4.388	4.405	4.375	4.313	4.224	4.116	4.022	3.989	4.010	4.022	3.970	3.865	3.736	3.574	3.368	3.177	
41	3.789	3.832	3.846	3.816	3.759	3.680	3.583	3.499	3.469	3.489	3.499	3.448	3.347	3.227	3.083	2.903	2.735	
42	3.313	3.352	3.364	3.335	3.282	3.213	3.126	3.050	3.024	3.042	3.050	3.000	2.905	2.794	2.644	2.504	2.355	
43	2.902	2.937	2.947	2.920	2.872	2.809	2.732	2.665	2.641	2.658	2.664	2.617	2.527	2.424	2.305	2.161	2.029	
44	2.546	2.578	2.586	2.561	2.517	2.461	2.393	2.333	2.312	2.327	2.332	2.287	2.203	2.107	1.998	1.867	1.749	
45	2.237	2.266	2.274	2.251	2.211	2.160	2.099	2.046	2.029	2.042	2.046	2.004	1.926	1.836	1.734	1.615	1.509	
46	1.969	1.995	2.002	1.982	1.945	1.899	1.845	1.799	1.784	1.796	1.798	1.760	1.687	1.603	1.508	1.398	1.302	
47	1.735	1.759	1.766	1.748	1.714	1.672	1.624	1.584	1.572	1.583	1.584	1.548	1.482	1.403	1.313	1.213	1.125	
48	1.532	1.554	1.560	1.544	1.513	1.475	1.432	1.398	1.388	1.398	1.398	1.365	1.304	1.240	1.166	1.053	0.974	
49	1.354	1.374	1.380	1.366	1.338	1.302	1.264	1.236	1.228	1.237	1.236	1.206	1.149	1.080	1.001	0.915	0.844	
50	1.199	1.217	1.223	1.210	1.184	1.151	1.118	1.094	1.088	1.096	1.095	1.067	1.015	0.950	0.876	0.797	0.733	
51	1.062	1.078	1.085	1.073	1.049	1.019	0.989	0.969	0.966	0.973	0.971	0.945	0.897	0.837	0.768	0.695	0.637	
52	0.943	0.968	0.970	0.953	0.930	0.909	0.885	0.869	0.866	0.873	0.871	0.845	0.807	0.747	0.678	0.605	0.555	- 4
53	0.836	0.867	0.868	0.856	0.836	0.816	0.796	0.780	0.777	0.784	0.782	0.756	0.718	0.658	0.589	0.516	0.452	
54	0.742	0.767	0.766	0.752	0.735	0.718	0.698	0.681	0.678	0.684	0.681	0.655	0.617	0.557	0.488	0.415	0.348	
55	0.660	0.683	0.685	0.673	0.654	0.636	0.618	0.601	0.602	0.609	0.607	0.581	0.543	0.505	0.467	0.429	0.391	
56	0.576	0.597	0.601	0.585	0.568	0.550	0.532	0.515	0.512	0.519	0.517	0.491	0.453	0.415	0.377	0.339	0.301	
57	0.527	0.541	0.545	0.529	0.513	0.495	0.478	0.461	0.458	0.465	0.463	0.437	0.399	0.361	0.323	0.285	0.247	
58	0.481	0.494	0.498	0.482	0.466	0.449	0.432	0.415	0.412	0.419	0.417	0.391	0.353	0.315	0.277	0.239	0.201	
59	0.438	0.451	0.455	0.439	0.422	0.405	0.388	0.371	0.368	0.375	0.373	0.347	0.309	0.271	0.233	0.195	0.157	
60	3.682	3.735	3.753	3.696	3.575	3.438	3.341	3.314	3.345	3.376	3.329	3.168	2.924	2.651	2.389	2.161	2.000	
61	3.275	3.319	3.330	3.273	3.160	3.039	2.954	2.933	2.963	2.989	2.942	2.789	2.563	2.321	2.096	1.906	1.773	
62	2.912	2.947	2.950	2.893	2.790	2.682	2.609	2.592	2.620	2.642	2.595	2.450	2.243	2.028	1.837	1.681	1.573	
63	2.588	2.615	2.611	2.553	2.459	2.364	2.301	2.287	2.312	2.331	2.284	2.148	1.959	1.769	1.608	1.481	1.396	
64	2.298	2.318	2.307	2.249	2.163	2.080	2.026	2.016	2.038	2.053	2.007	1.880	1.707	1.541	1.406	1.305	1.238	
65	2.039	2.052	2.036	1.978	1.898	1.826	1.782	1.773	1.793	1.804	1.759	1.642	1.486	1.340	1.228	1.148	1.097	
66	1.808	1.815	1.793	1.735	1.663	1.601	1.564	1.558	1.574	1.582	1.539	1.431	1.291	1.164	1.071	1.009	0.971	
67	1.601	1.603	1.576	1.519	1.453	1.401	1.371	1.366	1.380	1.385	1.344	1.246	1.120	1.009	0.933	0.885	0.858	
68	1.416	1.413	1.383	1.327	1.267	1.223	1.199	1.196	1.208	1.210	1.172	1.082	0.970	0.875	0.812	0.776	0.757	
69	1.250	1.244	1.211	1.157	1.103	1.066	1.047	1.046	1.055	1.055	1.020	0.939	0.840	0.757	0.706	0.678	0.665	
70	1.102	1.093	1.058	1.006	0.957	0.926	0.913	0.912	0.919	0.918	0.886	0.814	0.727	0.656	0.613	0.592	0.584	
71	0.968	0.975	0.927	0.8725	0.8207	0.8033	0.8033	0.8033	0.8033	0.8033	0.777	0.704	0.6284	0.5670	0.5313	0.5159	0.5106	- 5
72	0.898	0.907	0.855	0.8025	0.7519	0.7351	0.7351	0.7351	0.7351	0.7351	0.709	0.636	0.560	0.498	0.4624	0.4470	0.4417	
73	0.831	0.840	0.788	0.735	0.684	0.667	0.667	0.667	0.667	0.667	0.641	0.568	0.492	0.430	0.394	0.379	0.373	
74	0.765	0.774	0.722	0.669	0.618	0.601	0.601	0.601	0.601	0.601	0.575	0.502	0.426	0.364	0.328	0.313	0.307	
75	0.700	0.709	0.657	0.604	0.553	0.536	0.536	0.536	0.536	0.536	0.510	0.437	0.361	0.300	0.264	0.249	0.243	
76	0.635	0.644	0.592	0.539	0.488	0.471	0.471	0.471	0.471	0.471	0.445	0.372	0.296	0.235	0.200	0.185	0.179	
77	0.570	0.579	0.527	0.474	0.423	0.406	0.406	0.406	0.406	0.406	0.380	0.307	0.231	0.170	0.135	0.120	0.114	
78	0.505	0.514	0.462	0.409	0.358	0.341	0.341	0.341	0.341	0.341	0.315	0.242	0.166	0.105	0.070	0.055	0.049	
79	0.440	0.449	0.397	0.344	0.293	0.276	0.276	0.276	0.276	0.276	0.250	0.177	0.101	0.040	0.005	0.000		
80	2.557	2.494	2.344	2.162	2.036	1.990	1.982	1.977	1.980	1.984	1.938	1.802	1.622	1.482	1.415	1.399	1.400	

MARCH

ZONAL MEAN DENSITY (KG/M CU)

KM LAT =	-80	-70	-60	-50	-40	-30	-20	-10	0	10	20	30	40	50	60	70	80 DEG	
18	1.077	1.104	1.149	1.208	1.265	1.308	1.334	1.349	1.353	1.343	1.311	1.262	1.209	1.161	1.118	1.077	1.045	- 1
19	0.930	0.952	0.989	1.035	1.078	1.108	1.124	1.132	1.136	1.131	1.109	1.073	1.032	0.995	0.961	0.928	0.902	
20	8.001	8.190	8.494	8.855	9.171	9.368	9.454	9.495	9.524	9.496	9.350	9.093	8.797	8.515	8.240	7.961	7.729	- 2
21	6.876	7.033	7.282	7.567	7.799	7.920	7.954	7.967	7.985	7.971	7.873	7.698	7.493	7.286	7.060	6.812	6.600	
22	5.903	6.033	6.237	6.463	6.632	6.700	6.700	6.693	6.703	6.695	6.631	6.515	6.380	6.231	6.044	5.822	5.627	
23	5.063	5.172	5.341	5.520	5.641	5.674	5.653	5.635	5.637	5.632	5.590	5.517	5.432	5.326	5.171	4.973	4.796	
24	4.341	4.433	4.573	4.715	4.802	4.812	4.780	4.754	4.751	4.747	4.721	4.677	4.625	4.550	4.422	4.248	4.091	
25	3.720	3.799	3.915	4.028	4.091	4.087	4.050	4.021	4.014	4.011	3.995	3.970	3.939	3.885	3.780	3.630	3.493	
26	3.187	3.256	3.353	3.443	3.488	3.477	3.438	3.409	3.400	3.397	3.389	3.375	3.356	3.315	3.229	3.103	2.987	
27	2.730	2.791	2.872	2.944	2.976	2.962	2.925	2.896	2.886	2.884	2.880	2.873	2.860	2.828	2.758	2.653	2.556	
28	2.338	2.392	2.461	2.519	2.542	2.527	2.494	2.466	2.455	2.454	2.453	2.449	2.439	2.412	2.354	2.269	2.190	
29	2.002	2.050	2.109	2.156	2.173	2.159	2.129	2.104	2.093	2.092	2.093	2.090	2.080	2.057	2.009	1.941	1.878	
30	1.715	1.757	1.808	1.846	1.859	1.847	1.821	1.798	1.787	1.788	1.790	1.787	1.776	1.753	1.714	1.661	1.611	
31	1.469	1.507	1.550	1.582	1.592	1.582	1.560	1.539	1.529	1.530	1.532	1.529	1.517	1.495	1.463	1.421	1.382	
32	1.258	1.292	1.330	1.356	1.365	1.357	1.338	1.319	1.310	1.311	1.314	1.310	1.296	1.276	1.248	1.215	1.186	
33	1.078	1.108	1.141	1.163	1.171	1.165	1.149	1.133	1.124	1.126	1.129	1.124	1.109	1.089	1.066	1.040	1.017	
34	0.924	0.951	0.980	0.999	1.006	1.002	0.989	0.974	0.966	0.968	0.971	0.966	0.950	0.930	0.910	0.890	0.873	
35	7.922	8.168	8.422	8.589	8.654	8.624	8.515	8.384	8.317	8.335	8.364	8.305	8.150	7.959	7.780	7.616	7.485	- 3
36	6.799	7.020	7.245	7.393	7.453	7.435	7.344	7.230	7.171	7.189	7.214	7.155	7.001	6.818	6.657	6.522	6.419	
37	5.841	6.038	6.239	6.371	6.429	6.419	6.344	6.245	6.193	6.211	6.233	6.173	6.024	5.850	5.704	5.589	5.505	
38	5.023	5.199	5.379	5.499	5.554	5.551	5.489	5.404	5.358	5.375	5.393	5.335	5.193	5.029	4.894	4.793	4.723	
39	4.324	4.483	4.645	4.754	4.806	4.808	4.758	4.685	4.645	4.660	4.675	4.619	4.486	4.333	4.207	4.116	4.053	
40	3.728	3.871	4.017	4.117	4.167	4.172	4.131	4.069	4.035	4.048	4.059	4.006	3.883	3.741	3.624	3.538	3.481	
41	3.219	3.348	3.481	3.573	3.620	3.627	3.594	3.542	3.513	3.524	3.532	3.482	3.369	3.238	3.128	3.047	2.993	
42	2.784	2.900	3.022	3.107	3.151	3.159	3.133	3.090	3.066	3.074	3.079	3.033	2.930	2.810	2.706	2.628	2.576	
43	2.412	2.517	2.629	2.707	2.748	2.757	2.736	2.701	2.681	2.688	2.691	2.648	2.555	2.445	2.347	2.271	2.221	
44	2.093	2.189	2.291	2.364	2.402	2.411	2.395	2.367	2.351	2.356	2.356	2.317	2.233	2.132	2.041	1.967	1.918	
45	1.820	1.907	2.002	2.069	2.104	2.113	2.101	2.079	2.066	2.070	2.067	2.031	1.957	1.865	1.779	1.708	1.660	
46	1.586	1.665	1.752	1.815	1.847	1.855	1.846	1.830	1.821	1.822	1.818	1.785	1.718	1.635	1.554	1.486	1.439	
47	1.384	1.457	1.537	1.596	1.632	1.636	1.614	1.608	1.608	1.602	1.571	1.512	1.437	1.361	1.296	1.251		
48	1.210	1.277	1.351	1.405	1.432	1.438	1.434	1.426	1.422	1.422	1.415	1.386	1.333	1.265	1.195	1.133	1.090	
49	1.060	1.121	1.190	1.240	1.264	1.270	1.267	1.263	1.261	1.260	1.252	1.225	1.178	1.116	1.051	0.993	0.952	
50	0.930	0.986	1.050	1.096	1.118	1.122	1.121	1.120	1.120	1.118	1.109	1.084	1.042	0.986	0.926	0.872	0.834	
51	8.174	8.485	8.753	9.003	9.203	9.297	9.335	9.341	9.356	9.338	9.235	9.002	8.723	8.412	8.172	7.968	7.815	- 4
52	7.193	7.459	7.700	7.998	8.272	8.401	8.405	8.433	8.461	8.440	8.332	8.113	7.822	7.518	7.256	7.043	6.933	
53	6.337	6.560	6.758	6.925	7.080	7.202	7.210	7.252	7.280	7.268	7.159	6.940	6.689	6.401	6.159	5.959	5.867	
54	5.588	5.792	6.027	6.245	6.404	6.499	6.530	6.582	6.628	6.605	6.493	6.270	6.022	5.742	5.526	5.362	5.267	
55	4.931	5.127	5.392	5.602	5.767	5.866	5.904	5.976	6.038	6.015	5.903	5.670	5.422	5.142	4.926	4.762	4.667	
56	4.354	4.564	4.841	5.124	5.436	5.441	5.454	5.516	5.570	5.548	5.439	5.269	5.040	4.744	4.409	4.107	3.903	
57	3.846	4.022	4.262	4.520	4.821	4.822	4.835	4.898	4.954	4.932	4.827	4.667	4.460	4.193	3.894	3.627	3.451	
58	3.397	3.642	3.947	4.181	4.272	4.271	4.283	4.345	4.400	4.380	4.279	4.130	3.941	3.702	3.436	3.202	3.051	
59	3.000	3.276	3.587	3.698	3.780	3.778	3.790	3.849	3.903	3.884	3.788	3.649	3.477	3.263	3.027	2.824	2.696	
60	2.649	2.837	3.077	3.267	3.441	3.539	3.550	3.606	3.657	3.638	3.548	3.420	3.264	3.071	2.863	2.688	2.580	
61	2.338	2.501	2.712	2.881	2.948	2.947	2.957	3.009	3.056	3.039	2.955	2.837	2.694	2.522	2.339	2.188	2.098	
62	2.062	2.192	2.386	2.536	2.597	2.597	2.606	2.654	2.697	2.680	2.603	2.495	2.365	2.211	2.051	1.922	1.847	
63	1.817	1.936	2.095	2.227	2.283	2.285	2.294	2.337	2.375	2.360	2.289	2.190	2.073	1.935	1.795	1.685	1.623	
64	1.600	1.701	1.837	1.952	2.003	2.007	2.017	2.055	2.088	2.073	2.009	1.919	1.813	1.691	1.568	1.475	1.424	
65	1.407	1.492	1.607	1.707	1.754	1.760	1.771	1.804	1.832	1.818	1.760	1.679	1.584	1.475	1.368	1.288	1.246	
66	1.236	1.307	1.404	1.490	1.532	1.541	1.553	1.582	1.605	1.591	1.539	1.467	1.381	1.284	1.191	1.123	1.088	
67	1.084	1.143	1.224	1.297	1.336	1.347	1.359	1.385	1.404	1.390	1.344	1.279	1.203	1.117	1.036	0.978	0.948	
68	0.950	0.998	1.065	1.127	1.162	1.176	1.189	1.211	1.225	1.213	1.172	1.115	1.046	0.970	0.899	0.850	0.825	
69	0.831	0.871	0.926	0.977	1.009	1.024	1.038	1.057	1.068	1.056	1.021	0.970	0.909	0.841	0.780	0.737	0.716	
70	7.262	7.585	8.032	8.453	8.740	8.909	9.058	9.218	9.293	9.181	8.876	8.430	7.885	7.294	6.761	6.391	6.206	- 5
71	6.333	6.598	6.956	7.300	7.557	7.737	7.891	8.026	8.073	7.970	7.708	7.320	6.838	6.318	5.855	5.534	5.370	
72	5.513	5.730	6.016	6.293	6.521	6.706	6.863	6.976	7.001	6.906	6.685	6.350	5.925	5.469	5.068	4.788	4.640	
73	4.789	4.968	5.194	5.415	5.616	5.802	5.957	6.051	6.058	5.973	5.790	5.503	5.131	4.732	4.384	4.139	4.004	
74	4.151	4.299	4.477	4.651	4.828	5.009	5.159	5.236	5.230	5.156	5.006	4.763	4.439	4.092	3.791	3.576	3.452	
75	3.588	3.712	3.852	3.988	4.142	4.314	4.456	4.517	4.501	4.439	4.320	4.117	3.836	3.537	3.227	3.087	2.973	
76	3.092	3.197	3.307	3.413	3.546	3.705	3.834	3.882	3.861	3.809	3.718	3.551	3.312	3.054	2.830	2.663	2.558	
77	2.656	2.7																

APRIL

ZONAL MEAN DENSITY (KG/M CU)

KM LAT =	-80	-70	-60	-50	-40	-30	-20	-10	0	10	20	30	40	50	60	70	80 DEG	
18	1.079	1.088	1.119	1.175	1.237	1.288	1.321	1.342	1.349	1.337	1.306	1.263	1.217	1.177	1.148	1.134	1.131	- 1
19	0.930	0.937	0.962	1.006	1.055	1.093	1.116	1.129	1.132	1.123	1.100	1.069	1.037	1.008	0.988	0.979	0.977	
20	7.984	8.052	8.263	8.616	8.989	9.259	9.405	9.476	9.489	9.420	9.262	9.049	8.827	8.632	8.492	8.425	8.416	- 2
21	6.826	6.905	7.094	7.376	7.652	7.834	7.921	7.959	7.961	7.908	7.798	7.659	7.516	7.387	7.289	7.241	7.235	
22	5.818	5.911	6.086	6.314	6.514	6.630	6.676	6.693	6.688	6.648	6.575	6.487	6.400	6.317	6.251	6.217	6.215	
23	4.947	5.052	5.218	5.405	5.549	5.618	5.636	5.637	5.628	5.600	5.553	5.502	5.451	5.399	5.356	5.336	5.339	
24	4.198	4.312	4.471	4.627	4.730	4.768	4.768	4.758	4.741	4.728	4.700	4.672	4.643	4.611	4.586	4.578	4.586	
25	3.557	3.676	3.827	3.960	4.036	4.054	4.042	4.026	4.013	4.001	3.987	3.973	3.956	3.936	3.924	3.927	3.940	
26	3.010	3.130	3.273	3.388	3.446	3.453	3.435	3.414	3.400	3.393	3.390	3.383	3.371	3.359	3.356	3.367	3.385	
27	2.545	2.662	2.796	2.897	2.944	2.946	2.926	2.902	2.887	2.885	2.888	2.885	2.874	2.865	2.869	2.887	2.908	
28	2.150	2.262	2.387	2.477	2.516	2.517	2.497	2.472	2.457	2.458	2.464	2.463	2.452	2.444	2.452	2.474	2.497	
29	1.816	1.920	2.035	2.116	2.152	2.154	2.135	2.110	2.096	2.098	2.107	2.105	2.093	2.085	2.095	2.119	2.143	
30	1.534	1.629	1.734	1.808	1.841	1.845	1.828	1.805	1.791	1.794	1.804	1.802	1.787	1.779	1.790	1.815	1.838	
31	1.296	1.382	1.476	1.543	1.576	1.582	1.568	1.546	1.533	1.537	1.547	1.544	1.528	1.519	1.529	1.554	1.576	
32	1.095	1.171	1.256	1.318	1.349	1.358	1.347	1.327	1.315	1.319	1.328	1.324	1.308	1.298	1.307	1.330	1.350	
33	0.925	0.993	1.069	1.125	1.156	1.166	1.158	1.140	1.130	1.134	1.142	1.137	1.121	1.111	1.118	1.138	1.156	
34	0.783	0.842	0.909	0.961	0.991	1.002	0.997	0.982	0.972	0.976	0.982	0.977	0.962	0.951	0.957	0.974	0.990	
35	6.630	7.146	7.738	8.207	8.497	8.622	8.590	8.464	8.381	8.412	8.467	8.413	8.264	8.162	8.205	8.345	8.475	- 3
36	5.622	6.068	6.590	7.016	7.293	7.424	7.411	7.308	7.238	7.263	7.306	7.253	7.114	7.016	7.041	7.152	7.257	
37	4.773	5.158	5.617	6.004	6.266	6.399	6.401	6.320	6.262	6.281	6.314	6.262	6.136	6.042	6.052	6.135	6.217	
38	4.059	4.390	4.793	5.144	5.390	5.522	5.536	5.475	5.427	5.442	5.465	5.416	5.303	5.214	5.211	5.269	5.330	
39	3.457	3.743	4.097	4.414	4.643	4.772	4.795	4.750	4.713	4.723	4.738	4.693	4.593	4.510	4.496	4.533	4.575	
40	2.951	3.196	3.507	3.794	4.006	4.129	4.160	4.129	4.100	4.107	4.115	4.074	3.987	3.911	3.887	3.906	3.932	
41	2.524	2.735	3.009	3.267	3.463	3.579	3.614	3.596	3.575	3.578	3.581	3.545	3.470	3.400	3.369	3.373	3.386	
42	2.163	2.346	2.587	2.819	2.999	3.108	3.146	3.138	3.123	3.124	3.123	3.090	3.026	2.963	2.927	2.919	2.922	
43	1.858	2.016	2.229	2.439	2.603	2.704	2.744	2.744	2.735	2.734	2.729	2.700	2.646	2.589	2.550	2.532	2.527	
44	1.599	1.737	1.925	2.114	2.264	2.358	2.398	2.404	2.399	2.397	2.390	2.365	2.319	2.267	2.227	2.203	2.191	
45	1.380	1.500	1.667	1.838	1.974	2.060	2.100	2.111	2.110	2.106	2.098	2.075	2.037	1.991	1.950	1.921	1.905	
46	1.194	1.299	1.448	1.601	1.725	1.804	1.843	1.857	1.859	1.855	1.845	1.825	1.793	1.752	1.711	1.680	1.661	
47	1.035	1.128	1.260	1.398	1.511	1.583	1.621	1.637	1.641	1.637	1.626	1.608	1.581	1.545	1.506	1.473	1.453	
48	0.900	0.981	1.099	1.224	1.326	1.392	1.428	1.446	1.451	1.447	1.436	1.420	1.397	1.365	1.328	1.295	1.274	
49	0.784	0.856	0.961	1.074	1.166	1.226	1.260	1.279	1.286	1.281	1.270	1.256	1.237	1.208	1.173	1.141	1.120	
50	0.685	0.748	0.842	0.944	1.028	1.082	1.114	1.133	1.141	1.136	1.125	1.112	1.096	1.071	1.038	1.007	0.987	
51	0.599	0.655	0.739	0.831	0.907	0.957	0.987	1.005	1.013	1.008	0.997	0.986	0.972	0.950	0.920	0.891	0.871	
52	5.249	5.743	6.494	7.325	8.015	8.466	8.744	8.927	9.005	8.960	8.849	8.744	8.632	8.441	8.165	7.890	7.706	- 4
53	4.608	5.044	5.714	6.463	7.090	7.500	7.757	7.933	8.010	7.965	7.857	7.761	7.666	7.500	7.249	6.996	6.825	
54	4.052	4.435	5.031	5.707	6.275	6.648	6.885	7.051	7.126	7.082	6.977	6.890	6.809	6.664	6.438	6.206	6.051	
55	3.567	3.903	4.432	5.041	5.556	5.894	6.112	6.268	6.339	6.296	6.195	6.115	6.047	5.921	5.717	5.507	5.366	
56	3.143	3.436	3.905	4.452	4.919	5.226	5.424	5.570	5.637	5.594	5.497	5.424	5.368	5.258	5.075	4.885	4.759	
57	2.771	3.025	3.440	3.930	4.353	4.631	4.812	4.947	5.009	4.967	4.875	4.808	4.761	4.666	4.502	4.331	4.219	
58	2.445	2.664	3.028	3.467	3.849	4.101	4.266	4.390	4.447	4.405	4.318	4.258	4.219	4.137	3.990	3.836	3.736	
59	2.157	2.345	2.664	3.055	3.400	3.628	3.777	3.891	3.942	3.902	3.820	3.766	3.734	3.663	3.531	3.393	3.306	
60	1.903	2.063	2.341	2.689	2.999	3.205	3.341	3.444	3.490	3.451	3.374	3.326	3.301	3.239	3.121	2.998	2.920	
61	1.679	1.814	2.055	2.363	2.641	2.828	2.950	3.044	3.084	3.047	2.976	2.934	2.914	2.860	2.754	2.644	2.575	
62	1.480	1.594	1.802	2.073	2.322	2.491	2.601	2.686	2.721	2.685	2.621	2.584	2.568	2.521	2.426	2.328	2.267	
63	1.304	1.399	1.578	1.816	2.038	2.190	2.290	2.365	2.395	2.362	2.304	2.272	2.259	2.218	2.134	2.046	1.993	
64	1.148	1.226	1.379	1.588	1.786	1.923	2.012	2.079	2.104	2.074	2.022	1.995	1.985	1.949	1.873	1.795	1.748	
65	1.010	1.074	1.204	1.386	1.562	1.685	1.765	1.823	1.845	1.817	1.772	1.749	1.741	1.709	1.642	1.572	1.531	
66	0.887	0.939	1.050	1.208	1.363	1.474	1.546	1.596	1.614	1.589	1.550	1.531	1.525	1.497	1.437	1.375	1.338	
67	0.778	0.821	0.915	1.051	1.187	1.287	1.351	1.395	1.409	1.387	1.355	1.339	1.334	1.308	1.255	1.201	1.169	
68	0.682	0.717	0.796	0.913	1.033	1.122	1.179	1.216	1.227	1.209	1.182	1.169	1.165	1.142	1.095	1.048	1.019	
69	0.597	0.625	0.692	0.792	0.897	0.977	1.028	1.058	1.066	1.051	1.030	1.020	1.015	0.995	0.955	0.913	0.888	
70	5.214	5.450	6.004	6.858	7.775	8.489	8.939	9.186	9.241	9.123	8.964	8.889	8.843	8.660	8.311	7.954	7.734	- 5
71	4.549	4.745	5.209	5.933	6.731	7.367	7.763	7.960	7.993	7.903	7.791	7.737	7.691	7.526	7.228	6.924	6.731	
72	3.963	4.128	4.515	5.128	5.818	6.384	6.729	6.881	6.896	6.832	6.761	6.726	6.680	6.532	6.280	6.023	5.855	
73	3.448	3.587	3.911	4.426	5.022	5.522	5.821	5.934	5.935	5.893	5.858	5.839	5.793	5.662	5.452	5.237	5.090	
74	2.994	3.114	3.384	3.816	4.327	4.768	5.025	5.105	5.093	5.071	5.065	5.061	5.016	4.902	4.729	4.550	4.423	
75	2.596	2.700	2.925	3.285	3.722	4.107	4.326	4.378	4.358	4.350	4.369	4.376	4.336	4.237	4.096	3.950	3.839	
76	2.247	2.337	2.524	2.824	3.196	3.529	3.712	3.742	3.716	3.720	3.756	3.775	3.740	3.657	3.544	3.424	3.327	
77																		

MAY

ZONAL MEAN DENSITY (KG/M CU)

KN	LAT =	-80	-70	-60	-50	-40	-30	-20	-10	0	10	20	30	40	50	60	70	80	DEG
18		1.085	1.100	1.122	1.156	1.208	1.268	1.316	1.340	1.345	1.340	1.322	1.287	1.242	1.203	1.180	1.168	1.161	- 1
19		0.937	0.948	0.964	0.991	1.031	1.077	1.111	1.126	1.128	1.123	1.110	1.086	1.055	1.030	1.015	1.008	1.004	
20		7.984	8.112	8.272	8.489	8.794	9.125	9.365	9.460	9.459	9.419	9.331	9.166	8.964	8.806	8.725	8.685	8.652	- 2
21		6.741	6.906	7.087	7.276	7.499	7.730	7.894	7.953	7.943	7.911	7.854	7.750	7.624	7.530	7.488	7.468	7.446	
22		5.652	5.853	6.063	6.237	6.397	6.551	6.659	6.694	6.681	6.657	6.624	6.563	6.489	6.438	6.420	6.413	6.399	
23		4.718	4.944	5.177	5.344	5.462	5.560	5.626	5.644	5.630	5.615	5.599	5.568	5.528	5.502	5.500	5.502	5.495	
24		3.926	4.165	4.413	4.577	4.667	4.725	4.762	4.768	4.755	4.746	4.744	4.733	4.713	4.703	4.709	4.717	4.717	
25		3.262	3.502	3.754	3.917	3.990	4.023	4.039	4.036	4.024	4.022	4.028	4.029	4.021	4.019	4.029	4.042	4.047	
26		2.708	2.939	3.188	3.349	3.413	3.430	3.433	3.424	3.414	3.416	3.428	3.435	3.433	3.435	3.447	3.463	3.472	
27		2.249	2.465	2.703	2.860	2.920	2.929	2.923	2.911	2.902	2.908	2.923	2.933	2.934	2.936	2.949	2.966	2.978	
28		1.869	2.066	2.288	2.440	2.499	2.505	2.494	2.480	2.473	2.480	2.497	2.508	2.509	2.510	2.523	2.541	2.555	
29		1.555	1.731	1.935	2.079	2.138	2.144	2.132	2.117	2.111	2.120	2.136	2.147	2.147	2.147	2.159	2.177	2.193	
30		1.296	1.451	1.634	1.769	1.829	1.837	1.825	1.811	1.806	1.815	1.830	1.839	1.838	1.838	1.848	1.866	1.882	
31		1.083	1.217	1.379	1.504	1.564	1.575	1.565	1.552	1.548	1.557	1.570	1.578	1.576	1.574	1.583	1.600	1.616	
32		0.906	1.021	1.164	1.278	1.337	1.351	1.343	1.332	1.329	1.337	1.349	1.355	1.352	1.350	1.358	1.374	1.389	
33		0.760	0.858	0.982	1.086	1.143	1.160	1.155	1.146	1.143	1.150	1.160	1.164	1.161	1.159	1.165	1.180	1.194	
34		0.639	0.722	0.829	0.922	0.977	0.996	0.994	0.987	0.985	0.991	0.999	1.002	0.998	0.996	1.002	1.015	1.027	
35		5.391	6.082	6.996	7.828	8.357	8.562	8.568	8.516	8.503	8.552	8.615	8.631	8.595	8.573	8.621	8.735	8.850	- 3
36		4.557	5.134	5.913	6.650	7.148	7.365	7.394	7.359	7.351	7.390	7.438	7.445	7.412	7.391	7.433	7.531	7.632	
37		3.861	4.342	5.004	5.654	6.118	6.340	6.389	6.370	6.365	6.395	6.430	6.432	6.403	6.385	6.419	6.503	6.590	
38		3.281	3.680	4.241	4.812	5.241	5.464	5.528	5.522	5.520	5.543	5.567	5.566	5.540	5.526	5.555	5.625	5.699	
39		2.795	3.125	3.601	4.101	4.495	4.715	4.789	4.795	4.796	4.812	4.828	4.824	4.804	4.792	4.817	4.875	4.937	
40		2.387	2.661	3.063	3.501	3.860	4.074	4.156	4.171	4.173	4.184	4.194	4.190	4.173	4.166	4.186	4.233	4.284	
41		2.044	2.271	2.612	2.994	3.321	3.525	3.612	3.633	3.638	3.644	3.650	3.646	3.634	3.629	3.646	3.684	3.724	
42		1.754	1.943	2.232	2.566	2.862	3.056	3.145	3.170	3.176	3.180	3.182	3.179	3.171	3.169	3.182	3.212	3.245	
43		1.510	1.667	1.913	2.205	2.472	2.654	2.742	2.771	2.778	2.780	2.780	2.778	2.773	2.773	2.785	2.808	2.833	
44		1.302	1.434	1.643	1.899	2.139	2.310	2.396	2.426	2.433	2.434	2.434	2.432	2.431	2.433	2.442	2.460	2.478	
45		1.126	1.236	1.416	1.639	1.856	2.014	2.097	2.128	2.135	2.136	2.135	2.135	2.136	2.139	2.147	2.160	2.173	
46		0.976	1.069	1.223	1.419	1.614	1.760	1.839	1.869	1.877	1.877	1.876	1.877	1.880	1.885	1.891	1.900	1.910	
47		0.848	0.927	1.059	1.232	1.407	1.541	1.616	1.645	1.652	1.652	1.654	1.659	1.664	1.664	1.670	1.676	1.682	
48		0.739	0.805	0.920	1.072	1.229	1.352	1.422	1.450	1.457	1.457	1.457	1.460	1.466	1.472	1.477	1.481	1.485	
49		0.645	0.701	0.800	0.934	1.076	1.188	1.253	1.280	1.286	1.286	1.287	1.291	1.298	1.305	1.309	1.311	1.313	
50		0.564	0.612	0.698	0.817	0.944	1.046	1.106	1.131	1.137	1.137	1.139	1.144	1.151	1.158	1.161	1.163	1.163	
51		0.494	0.535	0.610	0.715	0.829	0.923	0.978	1.001	1.006	1.007	1.009	1.014	1.022	1.029	1.032	1.033	1.032	
52		4.332	4.691	5.346	6.272	7.296	8.147	8.658	8.868	8.917	8.921	8.942	9.000	9.081	9.149	9.180	9.182	9.176	- 4
53		3.807	4.118	4.689	5.508	6.425	7.200	7.670	7.863	7.907	7.910	7.932	7.992	8.074	8.141	8.172	8.173	8.164	
54		3.351	3.619	4.119	4.842	5.663	6.366	6.800	6.978	7.015	7.016	7.039	7.100	7.181	7.247	7.278	7.279	7.271	
55		2.952	3.185	3.622	4.260	4.993	5.631	6.030	6.194	6.226	6.224	6.246	6.307	6.386	6.452	6.483	6.486	6.479	
56		2.603	2.805	3.187	3.748	4.402	4.981	5.349	5.500	5.526	5.521	5.541	5.600	5.678	5.742	5.774	5.780	5.776	
57		2.297	2.472	2.805	3.299	3.880	4.404	4.743	4.883	4.904	4.895	4.914	4.970	5.045	5.108	5.141	5.150	5.149	
58		2.027	2.180	2.470	2.902	3.418	3.891	4.204	4.334	4.350	4.338	4.354	4.408	4.480	4.540	4.574	4.586	4.590	
59		1.790	1.923	2.175	2.552	3.008	3.435	3.724	3.845	3.856	3.841	3.854	3.905	3.973	4.031	4.066	4.082	4.089	
60		1.580	1.696	1.914	2.243	2.645	3.029	3.295	3.407	3.415	3.397	3.407	3.455	3.520	3.575	3.610	3.629	3.640	
61		1.394	1.495	1.685	1.970	2.323	2.667	2.911	3.015	3.020	3.000	3.008	3.053	3.114	3.167	3.202	3.224	3.237	
62		1.229	1.318	1.481	1.728	2.037	2.346	2.569	2.665	2.667	2.646	2.652	2.693	2.750	2.800	2.836	2.860	2.876	
63		1.083	1.160	1.302	1.515	1.785	2.060	2.263	2.351	2.351	2.330	2.335	2.373	2.425	2.472	2.507	2.533	2.552	
64		0.953	1.021	1.143	1.326	1.561	1.805	1.990	2.070	2.069	2.048	2.052	2.087	2.135	2.179	2.213	2.241	2.261	
65		0.838	0.898	1.003	1.160	1.364	1.580	1.747	1.819	1.816	1.796	1.801	1.833	1.877	1.917	1.951	1.979	2.000	
66		0.736	0.789	0.880	1.014	1.190	1.381	1.530	1.594	1.590	1.573	1.578	1.607	1.646	1.683	1.716	1.745	1.767	
67		0.645	0.692	0.771	0.886	1.038	1.205	1.337	1.393	1.389	1.374	1.380	1.407	1.442	1.475	1.507	1.536	1.558	
68		0.565	0.606	0.674	0.773	0.904	1.050	1.165	1.214	1.210	1.198	1.205	1.230	1.260	1.291	1.321	1.350	1.372	
69		0.493	0.531	0.590	0.674	0.787	0.913	1.014	1.055	1.051	1.042	1.050	1.073	1.100	1.127	1.156	1.185	1.206	
70		0.430	0.464	0.515	0.587	0.684	0.793	0.880	0.914	0.910	0.904	0.914	0.935	0.958	0.982	1.010	1.038	1.059	
71		3.748	4.048	4.499	5.117	5.944	6.882	7.614	7.893	7.859	7.827	7.940	8.134	8.328	8.539	8.804	9.078	9.275	- 5
72		3.259	3.529	3.923	4.454	5.161	5.960	6.572	6.793	6.762	6.758	6.883	7.061	7.225	7.411	7.663	7.926	8.111	
73		2.830	3.072	3.418	3.873	4.476	5.152	5.658	5.826	5.798	5.818	5.953	6.117	6.254	6.419	6.657	6.909	7.081	
74		2.454	2.671	2.974	3.365	3.877	4.445	4.856	4.979	4.955	4.994	5.135	5.286	5.400	5.547	5.772	6.012	6.169	
75		2.126	2.319	2.584	2.918	3.352	3.825	4.155	4.240	4.219	4.272	4.417	4.554	4.650	4.782	4.995	5.220	5.362	
76		1.840	2.011	2.241	2.526	2.891	3.282	3.543	3.										

JUNE

ZONAL MEAN DENSITY (KG/M CU)

	KM	LAT =	-80	-70	-60	-50	-40	-30	-20	-10	0	10	20	30	40	50	60	70	80	DEG
18	1	0.088	1.114	1.135	1.155	1.192	1.250	1.306	1.335	1.338	1.333	1.325	1.305	1.269	1.229	1.200	1.184	1.179	-	1
19	0	0.941	0.960	0.975	0.989	1.018	1.063	1.104	1.123	1.122	1.116	1.110	1.097	1.075	1.050	1.031	1.022	1.017		
20	2	7.965	8.174	8.344	8.474	8.692	9.023	9.320	9.445	9.418	9.358	9.315	9.244	9.115	8.968	8.861	8.802	8.772	-	2
21	6	6.646	6.898	7.118	7.260	7.424	7.659	7.871	7.954	7.922	7.869	7.843	7.812	7.745	7.666	7.609	7.578	7.559		
22	5	5.490	5.780	6.052	6.218	6.347	6.508	6.653	6.707	6.676	6.635	6.623	6.618	6.593	6.556	6.531	6.519	6.511		
23	4	4.506	4.817	5.129	5.322	5.432	5.538	5.632	5.664	5.639	5.609	5.608	5.620	5.619	5.609	5.603	5.604	5.605		
24	3	3.684	3.999	4.334	4.551	4.654	4.721	4.775	4.792	4.773	4.754	4.761	4.782	4.796	4.800	4.806	4.816	4.825		
25	3	3.006	3.311	3.653	3.886	3.989	4.030	4.056	4.062	4.049	4.039	4.051	4.076	4.098	4.110	4.121	4.137	4.152		
26	2	2.454	2.738	3.072	3.315	3.420	3.446	3.452	3.450	3.442	3.439	3.453	3.480	3.505	3.520	3.534	3.553	3.573		
27	2	2.005	2.263	2.579	2.822	2.931	2.950	2.942	2.936	2.932	2.934	2.950	2.976	3.000	3.016	3.031	3.052	3.075		
28	1	1.642	1.871	2.163	2.400	2.512	2.527	2.513	2.503	2.502	2.508	2.523	2.547	2.570	2.586	2.600	2.621	2.646		
29	1	1.349	1.548	1.812	2.037	2.150	2.166	2.149	2.138	2.139	2.147	2.162	2.183	2.204	2.218	2.231	2.253	2.278		
30	1	1.112	1.284	1.518	1.727	1.839	1.858	1.840	1.829	1.832	1.841	1.854	1.873	1.891	1.904	1.917	1.937	1.963		
31	0	0.920	1.066	1.272	1.463	1.572	1.593	1.578	1.568	1.571	1.580	1.592	1.608	1.624	1.636	1.647	1.667	1.691		
32	0	0.764	0.888	1.066	1.238	1.342	1.367	1.355	1.346	1.350	1.358	1.369	1.382	1.396	1.407	1.418	1.436	1.459		
33	0	0.637	0.741	0.894	1.047	1.145	1.172	1.164	1.157	1.161	1.169	1.178	1.189	1.201	1.211	1.221	1.238	1.259		
34	0	0.534	0.621	0.751	0.885	0.976	1.006	1.002	0.997	1.000	1.007	1.015	1.024	1.035	1.044	1.053	1.069	1.088		
35	4	4.487	5.216	6.317	7.485	8.313	8.630	8.630	8.596	8.627	8.687	8.751	8.832	8.923	9.007	9.101	9.246	9.412	-	3
36	3	3.788	4.396	5.325	6.333	7.083	7.407	7.442	7.425	7.452	7.501	7.556	7.625	7.706	7.785	7.876	8.007	8.152		
37	3	3.210	3.717	4.499	5.363	6.036	6.360	6.426	6.424	6.445	6.485	6.531	6.591	6.664	6.739	6.827	6.945	7.070		
38	2	2.730	3.153	3.808	4.547	5.147	5.466	5.555	5.566	5.582	5.613	5.653	5.706	5.772	5.844	5.928	6.035	6.142		
39	2	2.330	2.683	3.232	3.861	4.393	4.701	4.809	4.829	4.842	4.865	4.900	4.947	5.007	5.077	5.158	5.254	5.343		
40	1	1.995	2.291	2.751	3.285	3.754	4.049	4.169	4.197	4.206	4.223	4.253	4.296	4.352	4.419	4.497	4.583	4.657		
41	1	1.714	1.961	2.347	2.800	3.213	3.493	3.620	3.653	3.659	3.670	3.697	3.737	3.789	3.854	3.928	4.005	4.066		
42	1	1.476	1.685	2.009	2.393	2.756	3.018	3.148	3.185	3.187	3.195	3.220	3.257	3.306	3.368	3.439	3.507	3.557		
43	1	1.275	1.451	1.724	2.051	2.369	2.612	2.742	2.781	2.781	2.786	2.809	2.844	2.890	2.949	3.016	3.077	3.118		
44	1	1.104	1.253	1.484	1.762	2.042	2.266	2.393	2.432	2.431	2.434	2.455	2.488	2.531	2.587	2.651	2.706	2.738		
45	0	0.958	1.085	1.281	1.519	1.764	1.970	2.093	2.131	2.128	2.129	2.149	2.181	2.221	2.274	2.334	2.383	2.409		
46	0	0.833	0.942	1.108	1.312	1.529	1.717	1.833	1.869	1.866	1.866	1.885	1.915	1.953	2.003	2.060	2.103	2.124		
47	0	0.726	0.820	0.962	1.137	1.328	1.500	1.609	1.643	1.638	1.638	1.656	1.685	1.720	1.768	1.820	1.860	1.876		
48	0	0.634	0.715	0.837	0.989	1.157	1.313	1.414	1.446	1.441	1.440	1.458	1.485	1.518	1.562	1.611	1.647	1.660		
49	0	0.555	0.625	0.730	0.861	1.011	1.152	1.245	1.274	1.269	1.269	1.285	1.311	1.342	1.383	1.429	1.461	1.471		
50	0	0.487	0.547	0.638	0.753	0.885	1.013	1.098	1.125	1.119	1.119	1.135	1.159	1.188	1.226	1.269	1.298	1.306		
51	0	0.427	0.480	0.559	0.659	0.776	0.892	0.970	0.994	0.989	0.988	1.004	1.026	1.053	1.088	1.128	1.154	1.161		
52	0	0.376	0.421	0.490	0.578	0.682	0.787	0.858	0.879	0.874	0.874	0.888	0.910	0.934	0.967	1.003	1.028	1.034		
53	3	3.310	3.708	4.306	5.077	6.008	6.951	7.596	7.787	7.735	7.736	7.873	8.071	8.299	8.599	8.934	9.160	9.217	-	4
54	2	2.919	3.267	3.789	4.466	5.294	6.144	6.729	6.900	6.85	6.852	6.981	7.165	7.375	7.651	7.960	8.170	8.222		
55	2	2.577	2.882	3.338	3.932	4.668	5.433	5.965	6.118	6.070	6.072	6.193	6.363	6.556	6.809	7.095	7.291	7.341		
56	2	2.278	2.545	2.943	3.464	4.117	4.805	5.288	5.427	5.381	5.383	5.495	5.652	5.828	6.061	6.325	6.508	6.557		
57	2	2.015	2.250	2.597	3.052	3.630	4.249	4.688	4.814	4.770	4.771	4.875	5.020	5.181	5.394	5.639	5.811	5.859		
58	1	1.784	1.990	2.292	2.689	3.200	3.755	4.154	4.269	4.227	4.227	4.323	4.456	4.603	4.799	5.026	5.188	5.236		
59	1	1.579	1.761	2.024	2.369	2.818	3.316	3.678	3.784	3.745	3.743	3.830	3.952	4.087	4.266	4.477	4.631	4.679		
60	1	1.398	1.558	1.787	2.086	2.480	2.925	3.254	3.351	3.315	3.312	3.391	3.502	3.625	3.790	3.986	4.131	4.179		
61	1	1.238	1.380	1.578	1.835	2.180	2.576	2.876	2.965	2.931	2.927	2.998	3.100	3.212	3.364	3.546	3.684	3.731		
62	1	1.096	1.221	1.393	1.614	1.914	2.266	2.538	2.620	2.588	2.583	2.647	2.739	2.842	2.982	3.152	3.282	3.329		
63	0	0.969	1.080	1.229	1.418	1.678	1.991	2.236	2.311	2.281	2.275	2.333	2.417	2.511	2.640	2.798	2.921	2.968		
64	0	0.856	0.955	1.084	1.245	1.470	1.746	1.966	2.035	2.007	2.001	2.052	2.128	2.214	2.334	2.481	2.597	2.643		
65	0	0.756	0.843	0.955	1.092	1.286	1.528	1.725	1.788	1.763	1.756	1.801	1.870	1.949	2.059	2.196	2.306	2.351		
66	0	0.666	0.744	0.841	0.958	1.124	1.336	1.511	1.567	1.544	1.537	1.578	1.640	1.712	1.814	1.942	2.045	2.088		
67	0	0.586	0.655	0.740	0.839	0.982	1.166	1.320	1.370	1.349	1.343	1.379	1.435	1.501	1.595	1.713	1.810	1.852		
68	0	0.515	0.576	0.650	0.735	0.857	1.077	1.151	1.194	1.175	1.170	1.202	1.253	1.313	1.399	1.509	1.600	1.640		
69	0	0.451	0.506	0.570	0.643	0.747	0.885	1.001	1.037	1.021	1.016	1.045	1.090	1.145	1.225	1.326	1.411	1.449		
70	0	0.394	0.443	0.500	0.562	0.652	0.769	0.868	0.899	0.884	0.881	0.907	0.947	0.997	1.069	1.163	1.242	1.278		
71	0	0.344	0.387	0.437	0.492	0.568	0.668	0.751	0.776	0.763	0.761	0.784	0.820	0.865	0.931	1.017	1.091	1.125		
72	2	2.997	3.380	3.821	4.293	4.943	5.785	6.473	6.673	6.567	6.556	6.764	7.083	7.486	8.091	8.877	9.553	9.879	-	5
73	2	2.604	2.942	3.333	3.745	4.300	5.003	5.566	5.720	5.631	5.631	5.819	6.099	6.459	7.006	7.724	8.346	8.651	</	

JULY

ZONAL MEAN DENSITY (PG M CU)

KN LAT =	-80	-70	-60	-50	-40	-30	-20	-10	0	10	20	30	40	50	60	70	80 DEG	
18	1.094	1.111	1.128	1.151	1.172	1.253	1.310	1.340	1.341	1.331	1.325	1.316	1.293	1.256	1.220	1.200	1.195	- 1
19	0.943	0.955	0.968	0.985	1.009	1.067	1.111	1.130	1.126	1.116	1.110	1.106	1.094	1.072	1.050	1.036	1.033	
20	1.861	8.050	8.241	8.424	8.693	9.060	9.380	9.514	9.468	9.352	9.139	8.824	8.277	7.456	6.019	4.932	3.907	- 2
21	5.423	5.691	5.974	6.196	6.419	6.684	6.914	7.009	7.069	7.092	7.066	7.083	7.081	7.023	6.943	6.690	6.675	
22	5.187	5.512	5.872	6.140	6.336	6.523	6.681	6.749	6.720	6.664	6.651	6.683	6.707	6.688	6.644	6.615	6.610	
23	4.165	4.576	4.925	5.237	5.476	5.645	5.748	5.795	5.769	5.641	5.639	5.678	5.717	5.720	5.699	5.686	5.691	
24	3.340	3.690	4.119	4.451	4.634	4.724	4.784	4.816	4.809	4.787	4.792	4.834	4.879	4.895	4.888	4.881	4.899	
25	2.683	3.014	3.439	3.786	3.969	4.053	4.062	4.081	4.082	4.072	4.081	4.122	4.170	4.192	4.192	4.198	4.218	
26	2.164	2.465	2.868	3.217	3.400	3.447	3.456	3.466	3.472	3.471	3.482	3.521	3.567	3.591	3.595	3.607	3.632	
27	1.755	2.020	2.391	2.729	2.914	2.955	2.948	2.950	2.959	2.964	2.976	3.011	3.055	3.079	3.085	3.099	3.128	
28	1.432	1.661	1.994	2.314	2.496	2.534	2.519	2.516	2.527	2.534	2.547	2.578	2.618	2.641	2.648	2.664	2.695	
29	1.176	1.371	1.664	1.960	2.139	2.176	2.156	2.159	2.161	2.170	2.182	2.210	2.246	2.267	2.275	2.292	2.323	
30	0.973	1.137	1.391	1.660	1.830	1.869	1.849	1.840	1.850	1.861	1.871	1.896	1.928	1.948	1.955	1.972	2.003	
31	0.810	0.947	1.165	1.405	1.565	1.605	1.587	1.577	1.587	1.597	1.606	1.628	1.656	1.674	1.682	1.699	1.728	
32	0.679	0.792	0.978	1.190	1.338	1.379	1.363	1.354	1.362	1.372	1.380	1.399	1.424	1.441	1.449	1.465	1.492	
33	0.572	0.665	0.823	1.008	1.145	1.184	1.172	1.164	1.171	1.179	1.187	1.203	1.226	1.241	1.249	1.264	1.289	
34	0.484	0.561	0.694	0.855	0.976	1.017	1.009	1.002	1.007	1.015	1.021	1.036	1.056	1.070	1.078	1.093	1.114	
35	4.119	4.756	5.874	7.254	8.337	8.735	8.690	8.624	8.676	8.738	8.797	8.923	9.104	9.241	9.323	9.453	9.646	- 3
36	3.518	4.046	4.985	6.165	7.120	7.504	7.490	7.443	7.480	7.533	7.585	7.697	7.860	7.989	8.072	8.191	8.357	
37	3.014	3.454	4.243	5.247	6.083	6.447	6.461	6.438	6.457	6.500	6.547	6.647	6.793	6.916	7.000	7.108	7.250	
38	2.590	2.959	3.622	4.475	5.202	5.542	5.579	5.558	5.580	5.615	5.657	5.747	5.880	5.997	6.090	6.178	6.297	
39	2.230	2.543	3.102	3.824	4.453	4.767	4.822	4.812	4.829	4.856	4.894	4.976	5.097	5.208	5.290	5.379	5.478	
40	1.925	2.191	2.664	3.276	3.818	4.106	4.173	4.172	4.184	4.206	4.241	4.315	4.425	4.530	4.612	4.691	4.772	
41	1.664	1.893	2.295	2.813	3.279	3.542	3.616	3.623	3.631	3.648	3.679	3.747	3.848	3.948	4.027	4.098	4.164	
42	1.441	1.639	1.983	2.422	2.822	3.060	3.139	3.151	3.157	3.169	3.198	3.260	3.352	3.446	3.523	3.587	3.640	
43	1.249	1.423	1.717	2.091	2.435	2.649	2.729	2.745	2.748	2.758	2.784	2.840	2.925	3.014	3.088	3.145	3.188	
44	1.085	1.237	1.491	1.810	2.106	2.298	2.378	2.395	2.397	2.404	2.428	2.480	2.557	2.641	2.711	2.763	2.797	
45	0.944	1.078	1.298	1.571	1.827	1.999	2.076	2.094	2.095	2.099	2.121	2.169	2.240	2.318	2.385	2.431	2.458	
46	0.822	0.941	1.132	1.368	1.589	1.743	1.816	1.834	1.834	1.837	1.857	1.900	1.966	2.039	2.102	2.143	2.164	
47	0.717	0.822	1.090	1.193	1.386	1.524	1.592	1.610	1.608	1.610	1.628	1.668	1.728	1.796	1.855	1.893	1.909	
48	0.627	0.720	0.867	1.044	1.213	1.336	1.399	1.415	1.413	1.414	1.431	1.467	1.522	1.585	1.640	1.674	1.687	
49	0.549	0.631	0.760	0.915	1.064	1.174	1.231	1.246	1.243	1.244	1.259	1.293	1.343	1.401	1.451	1.482	1.494	
50	0.482	0.555	0.668	0.804	0.935	1.034	1.086	1.100	1.096	1.096	1.110	1.141	1.186	1.240	1.287	1.315	1.324	
51	0.424	0.488	0.588	0.707	0.823	0.912	0.960	0.971	0.967	0.967	0.980	1.008	1.050	1.098	1.142	1.168	1.176	
52	0.373	0.430	0.518	0.623	0.726	0.806	0.849	0.859	0.855	0.854	0.866	0.897	0.930	0.974	1.014	1.038	1.046	
53	3.294	3.792	4.564	5.494	6.415	7.136	7.525	7.612	7.566	7.556	7.556	7.600	7.645	7.651	7.617	7.538	7.307	- 4
54	2.913	3.350	4.027	4.848	5.670	6.320	6.673	6.748	6.700	6.689	6.788	7.003	7.316	7.686	8.022	8.227	8.273	
55	2.581	2.962	3.556	4.280	5.013	5.600	5.920	5.985	5.936	5.924	6.016	6.212	6.495	6.832	7.140	7.332	7.395	
56	2.290	2.623	3.142	3.778	4.431	4.962	5.254	5.309	5.261	5.249	5.333	5.511	5.768	6.073	6.357	6.536	6.599	
57	2.034	2.324	2.776	3.335	3.914	4.394	4.660	4.710	4.663	4.650	4.727	4.889	5.121	5.399	5.661	5.829	5.890	
58	1.809	2.061	2.454	2.941	3.454	3.887	4.132	4.177	4.132	4.119	4.189	4.335	4.545	4.798	5.040	5.199	5.259	
59	1.609	1.829	2.169	2.593	3.044	3.434	3.659	3.702	3.660	3.647	3.710	3.842	4.031	4.261	4.486	4.637	4.696	
60	1.431	1.623	1.917	2.283	2.679	3.029	3.237	3.278	3.239	3.226	3.282	3.401	3.571	3.782	3.991	4.135	4.192	
61	1.273	1.440	1.694	2.008	2.353	2.667	2.859	2.899	2.863	2.850	2.901	3.007	3.160	3.353	3.548	3.685	3.742	
62	1.132	1.277	1.496	1.764	2.063	2.343	2.520	2.560	2.528	2.515	2.560	2.655	2.792	2.969	3.152	3.283	3.338	
63	1.005	1.132	1.320	1.548	1.806	2.054	2.217	2.257	2.229	2.216	2.256	2.340	2.463	2.625	2.797	2.923	2.976	
64	0.891	1.003	1.163	1.357	1.578	1.797	1.946	1.986	1.962	1.950	1.983	2.057	2.168	2.318	2.480	2.599	2.651	
65	0.789	0.887	1.024	1.188	1.376	1.569	1.705	1.744	1.723	1.712	1.747	1.805	1.905	2.043	2.195	2.310	2.360	
66	0.697	0.783	0.901	1.038	1.199	1.367	1.490	1.528	1.511	1.501	1.524	1.580	1.669	1.796	1.940	2.050	2.098	
67	0.614	0.690	0.791	0.907	1.043	1.189	1.299	1.336	1.322	1.312	1.332	1.380	1.459	1.577	1.712	1.816	1.863	
68	0.540	0.606	0.693	0.791	0.906	1.032	1.130	1.165	1.154	1.145	1.160	1.201	1.272	1.381	1.508	1.617	1.652	
69	0.474	0.532	0.607	0.689	0.786	0.895	0.981	1.013	1.005	0.997	1.009	1.043	1.107	1.206	1.325	1.419	1.462	
70	0.415	0.465	0.530	0.600	0.682	0.775	0.850	0.879	0.873	0.866	0.875	0.903	0.960	1.051	1.161	1.250	1.292	
71	0.362	0.406	0.462	0.521	0.591	0.670	0.734	0.760	0.757	0.750	0.756	0.780	0.830	0.913	1.016	1.099	1.139	
72	0.316	0.354	0.402	0.453	0.512	0.579	0.633	0.656	0.654	0.648	0.652	0.672	0.716	0.791	0.886	0.964	1.002	
73	2.743	3.072	3.486	3.927	4.431	4.991	5.449	5.645	5.632	5.584	5.617	5.711	6.155	6.835	7.698	8.423	8.786	- 5
74	2.379	2.661	3.020	3.401	3.830	4.298	4.677	4.842	4.836	4.797	4.814	4.944	5.278	5.885	6.668	7.336	7.678	
75	2.060	2.301	2.610	2.940	3.305	3.695	4.005	4.140	4.139	4.108	4.118	4.224	4.512	5.051	5.754	6.364	6.684	
76	1.780	1.986	2.252	2.536	2.846	3.168	3.419	3.528	3.529	3.506	3.513	3.599	3.847	4.319	4.945	5.497	5.792	
77	1.536	1.712	1.940	2.182	2.442	2.707	2.910	2.995	2.997	2.981	2.989	3.060	3.270	3.680	4.231	4.724	4.994	
78	1.323	1.475	1.668	1.871	2.086	2.304	2.467	2.533	2.533	2.525	2.535	2.595	2.772	3.122	3.602	4.038	4.281	
79	1.138	1.270	1.433	1.598	1.772	1.950	2.083	2.133	2.131	2.129	2.144	2.196	2.343	2.638	3.050	3.431	3.646	
80	0.977	1.095	1.231	1.358	1.493	1.639	1.749	1.787	1.783	1.786	1.807	1.854	1.974	2.219	2.568	2.997	3.083	

AUGUST

ZONAL MEAN DENSITY (KG/M CU)

	KM	LAT =	-80	-70	-60	-50	-40	-30	-20	-10	0	10	20	30	40	50	60	70	80	DEG
18			1.187	1.168	1.147	1.149	1.190	1.259	1.323	1.353	1.352	1.337	1.323	1.309	1.284	1.251	1.217	1.194	1.182	-
19			1.022	1.005	0.984	0.983	1.017	1.073	1.122	1.143	1.138	1.124	1.114	1.105	1.091	1.070	1.047	1.030	1.021	
20			8.404	8.399	8.352	8.398	8.678	9.114	9.479	9.619	9.563	9.451	9.381	9.343	9.273	9.146	8.995	8.872	8.801	-
21			6.734	6.901	7.036	7.167	7.403	7.728	7.994	8.090	8.038	7.953	7.915	7.913	7.888	7.814	7.715	7.631	7.581	
22			5.323	5.613	5.898	6.112	6.320	6.555	6.742	6.807	6.764	6.704	6.692	6.714	6.717	6.676	6.612	6.557	6.526	
23			4.186	4.544	4.929	5.208	5.401	5.568	5.694	5.736	5.704	5.665	5.671	5.707	5.726	5.707	5.666	5.631	5.614	
24			3.296	3.677	4.113	4.435	4.621	4.739	4.819	4.844	4.822	4.800	4.816	4.859	4.887	4.880	4.854	4.834	4.828	
25			2.608	2.981	3.431	3.776	3.957	4.042	4.087	4.101	4.087	4.076	4.098	4.143	4.175	4.176	4.160	4.149	4.151	
26			2.080	2.426	2.864	3.213	3.392	3.455	3.476	3.480	3.472	3.470	3.493	3.537	3.571	3.576	3.566	3.561	3.568	
27			1.674	1.985	2.394	2.734	2.909	2.958	2.962	2.960	2.956	2.960	2.983	3.023	3.056	3.065	3.058	3.056	3.067	
28			1.362	1.635	2.004	2.327	2.496	2.536	2.530	2.523	2.523	2.529	2.551	2.587	2.618	2.628	2.623	2.624	2.636	
29			1.120	1.354	1.683	1.980	2.142	2.177	2.164	2.155	2.156	2.164	2.184	2.216	2.245	2.255	2.252	2.254	2.266	
30			0.930	1.130	1.416	1.686	1.838	1.870	1.855	1.844	1.846	1.855	1.872	1.899	1.926	1.936	1.935	1.937	1.949	
31			0.780	0.949	1.196	1.436	1.576	1.607	1.591	1.580	1.582	1.591	1.605	1.629	1.653	1.664	1.663	1.666	1.677	
32			0.660	0.801	1.013	1.224	1.352	1.382	1.367	1.355	1.358	1.366	1.378	1.399	1.420	1.431	1.431	1.434	1.444	
33			0.562	0.680	0.860	1.044	1.159	1.188	1.175	1.164	1.166	1.174	1.184	1.202	1.221	1.231	1.232	1.235	1.244	
34			0.482	0.581	0.733	0.892	0.994	1.022	1.011	1.001	1.003	1.009	1.018	1.034	1.051	1.061	1.063	1.065	1.073	
35			4.149	4.980	6.268	7.628	8.526	8.785	8.703	8.619	8.631	8.685	8.766	8.897	9.049	9.145	9.171	9.198	9.258	-
36			3.585	4.286	5.375	6.534	7.315	7.557	7.499	7.428	7.435	7.481	7.552	7.667	7.802	7.894	7.926	7.952	8.000	
37			3.106	3.701	4.623	5.606	6.279	6.503	6.467	6.409	6.412	6.450	6.513	6.615	6.735	6.822	6.859	6.885	6.921	
38			2.696	3.205	3.988	4.819	5.394	5.600	5.584	5.533	5.537	5.568	5.624	5.714	5.822	5.904	5.945	5.969	5.996	
39			2.342	2.761	3.449	4.151	4.640	4.827	4.826	4.791	4.787	4.813	4.864	4.944	5.039	5.117	5.161	5.184	5.202	
40			2.037	2.420	2.991	3.583	3.996	4.165	4.177	4.152	4.146	4.167	4.212	4.283	4.369	4.442	4.487	4.509	4.521	
41			1.773	2.108	2.600	3.100	3.448	3.599	3.621	3.604	3.597	3.613	3.653	3.717	3.794	3.863	3.908	3.929	3.935	
42			1.543	1.840	2.265	2.688	2.981	3.115	3.145	3.134	3.126	3.138	3.175	3.232	3.301	3.365	3.410	3.430	3.431	
43			1.345	1.608	1.978	2.336	2.582	2.702	2.736	2.731	2.723	2.732	2.764	2.815	2.877	2.937	2.981	2.999	2.996	
44			1.172	1.407	1.730	2.035	2.242	2.348	2.386	2.385	2.377	2.383	2.411	2.457	2.512	2.569	2.611	2.627	2.622	
45			1.023	1.233	1.517	1.777	1.952	2.046	2.085	2.088	2.079	2.083	2.107	2.148	2.198	2.250	2.291	2.305	2.297	
46			0.894	1.082	1.331	1.554	1.703	1.787	1.826	1.832	1.823	1.824	1.845	1.882	1.927	1.976	2.013	2.026	2.017	
47			0.783	0.951	1.170	1.362	1.489	1.564	1.603	1.610	1.602	1.601	1.619	1.652	1.693	1.737	1.772	1.783	1.773	
48			0.687	0.836	1.030	1.196	1.305	1.373	1.410	1.419	1.411	1.409	1.423	1.452	1.490	1.531	1.563	1.572	1.562	
49			0.604	0.737	0.908	1.052	1.147	1.207	1.244	1.253	1.245	1.241	1.253	1.279	1.313	1.351	1.380	1.388	1.377	
50			0.532	0.650	0.800	0.926	1.009	1.064	1.099	1.108	1.101	1.096	1.105	1.128	1.159	1.193	1.220	1.227	1.216	
51			0.470	0.574	0.707	0.817	0.889	0.939	0.972	0.982	0.975	0.969	0.976	0.996	1.024	1.056	1.080	1.086	1.075	
52			4.161	5.080	6.240	7.262	7.845	8.305	8.616	8.712	8.642	8.577	8.632	8.806	9.060	9.350	9.572	9.616	9.516	-
53			3.692	4.499	5.513	6.354	6.926	7.349	7.644	7.737	7.669	7.599	7.639	7.791	8.022	8.287	8.488	8.524	8.430	
54			3.282	3.988	4.871	5.606	6.117	6.508	6.786	6.875	6.809	6.736	6.763	6.897	7.106	7.348	7.530	7.561	7.474	
55			2.923	3.538	4.305	4.945	5.401	5.763	6.026	6.111	6.047	5.973	5.990	6.107	6.296	6.516	6.682	6.710	6.630	
56			2.606	3.140	3.803	4.359	4.766	5.102	5.350	5.431	5.370	5.296	5.305	5.407	5.578	5.779	5.931	5.956	5.884	
57			2.325	2.788	3.359	3.840	4.202	4.513	4.747	4.824	4.766	4.694	4.697	4.786	4.940	5.123	5.263	5.288	5.224	
58			2.075	2.474	2.965	3.379	3.700	3.987	4.207	4.281	4.226	4.157	4.156	4.235	4.372	4.538	4.668	4.695	4.640	
59			1.851	2.196	2.615	2.969	3.253	3.518	3.725	3.795	3.744	3.678	3.675	3.743	3.866	4.018	4.139	4.168	4.121	
60			1.649	1.947	2.304	2.606	2.855	3.098	3.292	3.359	3.312	3.251	3.247	3.306	3.415	3.553	3.667	3.699	3.660	
61			1.468	1.724	2.028	2.283	2.501	2.723	2.904	2.968	2.926	2.870	2.865	2.916	3.012	3.138	3.246	3.281	3.250	
62			1.304	1.525	1.783	1.998	2.187	2.388	2.557	2.618	2.581	2.530	2.525	2.569	2.653	2.767	2.871	2.910	2.886	
63			1.155	1.346	1.565	1.745	1.908	2.090	2.247	2.305	2.272	2.227	2.222	2.259	2.333	2.437	2.536	2.578	2.562	
64			1.022	1.186	1.377	1.522	1.662	1.825	1.970	2.025	1.997	1.958	1.953	1.984	2.048	2.143	2.238	2.283	2.273	
65			0.901	1.043	1.200	1.325	1.445	1.591	1.723	1.775	1.752	1.718	1.713	1.740	1.795	1.881	1.972	2.020	2.016	
66			0.793	0.916	1.048	1.152	1.254	1.384	1.504	1.553	1.535	1.506	1.501	1.522	1.570	1.648	1.735	1.786	1.787	
67			0.696	0.802	0.914	1.006	1.087	1.202	1.310	1.356	1.342	1.318	1.314	1.330	1.370	1.441	1.525	1.577	1.582	
68			0.609	0.700	0.795	0.867	0.941	1.042	1.139	1.182	1.172	1.152	1.148	1.160	1.194	1.258	1.337	1.390	1.400	
69			0.532	0.610	0.691	0.751	0.814	0.902	0.988	1.028	1.021	1.005	1.001	1.010	1.038	1.096	1.171	1.224	1.237	
70			0.464	0.537	0.599	0.649	0.704	0.781	0.856	0.892	0.889	0.876	0.872	0.877	0.900	0.953	1.024	1.076	1.091	-
71			4.037	4.606	5.183	5.614	6.085	6.750	7.409	7.734	7.720	7.622	7.579	7.608	7.798	8.269	8.927	9.435	9.604	-
72			3.508	3.990	4.479	4.848	5.257	5.831	6.400	6.689	6.693	6.620	6.577	6.585	6.739	7.160	7.768	8.255	8.435	
73			3.045	3.450	3.865	4.184	4.540	5.033	5.520	5.773	5.791	5.738	5.696	5.687	5.812	6.186	6.741	7.202	7.387	
74			2.640	2.979	3.330	3.608	3.919	4.341	4.753	4.971	4.997	4.961	4.921	4.902	5.001	5.3				

SEPTEMBER

ZONAL MEAN DENSITY (KG/M CU)

KM LAT =	-80	-70	-60	-50	-40	-30	-20	-10	0	10	20	30	40	50	60	70	80 DEG	
18	1.136	1.083	1.065	1.112	1.201	1.280	1.325	1.345	1.351	1.343	1.323	1.298	1.266	1.224	1.179	1.151	1.143	- 1
19	0.961	0.924	0.912	0.953	1.026	1.089	1.122	1.134	1.136	1.129	1.116	1.100	1.079	1.049	1.015	0.993	0.987	
20	7.887	7.740	7.775	8.164	8.762	9.243	9.472	9.538	9.533	9.481	9.404	9.320	9.190	8.973	8.721	8.549	8.496	- 2
21	6.366	6.416	6.603	6.995	7.478	7.835	7.991	8.022	8.004	7.966	7.928	7.895	7.822	7.670	7.480	7.346	7.302	
22	5.097	5.288	5.594	5.994	6.386	6.643	6.743	6.753	6.730	6.703	6.693	6.694	6.660	6.553	6.410	6.306	6.270	
23	4.074	4.350	4.733	5.135	5.458	5.639	5.698	5.695	5.672	5.655	5.661	5.683	5.673	5.600	5.491	5.410	5.381	
24	3.264	3.581	4.002	4.399	4.670	4.794	4.823	4.813	4.793	4.783	4.799	4.831	4.837	4.787	4.703	4.640	4.617	
25	2.630	2.955	3.384	3.767	3.999	4.083	4.091	4.077	4.061	4.057	4.077	4.113	4.127	4.093	4.029	3.978	3.961	
26	2.135	2.449	2.864	3.225	3.427	3.484	3.477	3.461	3.450	3.449	3.470	3.506	3.525	3.502	3.451	3.411	3.397	
27	1.749	2.038	2.426	2.761	2.938	2.977	2.961	2.945	2.938	2.940	2.960	2.993	3.013	2.997	2.957	2.924	2.913	
28	1.446	1.706	2.057	2.363	2.520	2.547	2.527	2.511	2.507	2.511	2.529	2.558	2.577	2.566	2.534	2.507	2.498	
29	1.206	1.435	1.748	2.022	2.161	2.182	2.159	2.145	2.143	2.148	2.164	2.188	2.206	2.198	2.172	2.150	2.142	
30	1.016	1.214	1.488	1.730	1.854	1.870	1.849	1.835	1.835	1.841	1.854	1.874	1.889	1.884	1.862	1.843	1.836	
31	0.863	1.033	1.269	1.481	1.591	1.605	1.585	1.572	1.573	1.579	1.590	1.606	1.619	1.615	1.597	1.580	1.574	
32	0.739	0.883	1.084	1.268	1.364	1.378	1.360	1.349	1.351	1.356	1.365	1.378	1.388	1.385	1.370	1.355	1.349	
33	0.637	0.758	0.929	1.086	1.170	1.183	1.169	1.159	1.161	1.166	1.173	1.183	1.192	1.189	1.176	1.163	1.156	
34	0.551	0.653	0.798	0.931	1.004	1.017	1.005	0.998	0.999	1.003	1.009	1.017	1.023	1.021	1.010	0.998	0.991	
35	4.797	5.654	6.863	7.985	8.618	8.747	8.657	8.593	8.603	8.640	8.687	8.751	8.799	8.776	8.680	8.570	8.500	- 3
36	4.188	4.907	5.919	6.859	7.400	7.527	7.464	7.412	7.418	7.448	7.487	7.537	7.572	7.550	7.466	7.365	7.291	
37	3.665	4.271	5.116	5.900	6.360	6.483	6.444	6.403	6.404	6.428	6.461	6.499	6.524	6.503	6.429	6.334	6.258	
38	3.213	3.726	4.432	5.083	5.471	5.589	5.571	5.539	5.537	5.555	5.582	5.612	5.629	5.608	5.542	5.453	5.375	
39	2.820	3.257	3.848	4.387	4.712	4.825	4.823	4.800	4.794	4.807	4.830	4.853	4.863	4.843	4.785	4.700	4.621	
40	2.478	2.851	3.348	3.793	4.065	4.171	4.183	4.167	4.159	4.167	4.186	4.204	4.209	4.190	4.137	4.056	3.977	
41	2.178	2.500	2.919	3.286	3.513	3.612	3.634	3.624	3.614	3.619	3.634	3.648	3.649	3.631	3.583	3.505	3.427	
42	1.916	2.195	2.550	2.853	3.041	3.133	3.163	3.159	3.147	3.149	3.161	3.172	3.170	3.153	3.108	3.034	2.957	
43	1.686	1.930	2.231	2.482	2.639	2.723	2.759	2.759	2.745	2.745	2.755	2.763	2.760	2.743	2.702	2.631	2.556	
44	1.485	1.698	1.956	2.164	2.295	2.372	2.411	2.415	2.403	2.399	2.406	2.411	2.407	2.391	2.353	2.286	2.212	
45	1.308	1.496	1.717	1.890	2.000	2.071	2.112	2.119	2.107	2.102	2.106	2.109	2.104	2.089	2.054	1.989	1.919	
46	1.154	1.319	1.509	1.655	1.747	1.813	1.854	1.863	1.852	1.845	1.848	1.849	1.843	1.829	1.796	1.734	1.667	
47	1.019	1.164	1.329	1.451	1.530	1.590	1.631	1.642	1.632	1.624	1.624	1.623	1.618	1.605	1.574	1.515	1.451	
48	0.900	1.028	1.171	1.275	1.343	1.397	1.437	1.449	1.441	1.432	1.430	1.428	1.423	1.411	1.381	1.326	1.265	
49	0.797	0.909	1.032	1.122	1.180	1.230	1.269	1.282	1.275	1.265	1.262	1.259	1.254	1.243	1.215	1.162	1.106	
50	0.706	0.804	0.911	0.988	1.040	1.086	1.123	1.136	1.129	1.120	1.115	1.111	1.106	1.096	1.070	1.021	0.968	
51	0.627	0.712	0.804	0.871	0.917	0.959	0.994	1.008	1.002	0.992	0.986	0.982	0.978	0.968	0.944	0.897	0.848	
52	5.573	6.306	7.102	7.682	8.095	8.486	8.817	8.954	8.905	8.805	8.736	8.692	8.650	8.565	8.331	7.902	7.450	- 4
53	4.960	5.588	6.273	6.778	7.151	7.514	7.825	7.959	7.916	7.817	7.743	7.697	7.659	7.582	7.363	6.965	6.551	
54	4.418	4.954	5.539	5.981	6.320	6.656	6.947	7.077	7.040	6.943	6.865	6.819	6.786	6.714	6.510	6.144	5.768	
55	3.939	4.392	4.890	5.276	5.584	5.896	6.168	6.292	6.260	6.166	6.088	6.042	6.013	5.947	5.758	5.424	5.083	
56	3.512	3.894	4.315	4.651	4.932	5.222	5.474	5.592	5.564	5.474	5.396	5.352	5.327	5.267	5.093	4.789	4.484	
57	3.132	3.450	3.805	4.097	4.353	4.621	4.856	4.966	4.941	4.855	4.781	4.740	4.717	4.662	4.503	4.230	3.957	
58	2.792	3.056	3.353	3.605	3.837	4.085	4.303	4.406	4.383	4.302	4.232	4.194	4.174	4.124	3.979	3.735	3.493	
59	2.487	2.705	2.951	3.168	3.378	3.607	3.808	3.903	3.882	3.807	3.742	3.708	3.690	3.643	3.513	3.297	3.085	
60	2.213	2.391	2.595	2.781	2.970	3.180	3.365	3.453	3.433	3.364	3.305	3.274	3.257	3.215	3.099	2.908	2.723	
61	1.966	2.112	2.279	2.437	2.606	2.799	2.969	3.049	3.030	2.968	2.915	2.887	2.871	2.832	2.729	2.564	2.404	
62	1.743	1.862	2.000	2.133	2.283	2.459	2.615	2.687	2.670	2.614	2.567	2.542	2.527	2.490	2.401	2.258	2.121	
63	1.542	1.639	1.752	1.864	1.997	2.157	2.298	2.363	2.348	2.299	2.257	2.235	2.220	2.186	2.108	1.986	1.869	
64	1.362	1.441	1.532	1.627	1.744	1.888	2.016	2.075	2.061	2.018	1.982	1.962	1.946	1.915	1.848	1.746	1.647	
65	1.199	1.264	1.339	1.418	1.520	1.650	1.765	1.818	1.805	1.748	1.738	1.719	1.703	1.674	1.618	1.532	1.449	
66	1.054	1.107	1.168	1.234	1.324	1.439	1.542	1.589	1.579	1.547	1.522	1.504	1.487	1.461	1.413	1.342	1.274	
67	0.924	0.968	1.017	1.073	1.151	1.254	1.345	1.387	1.378	1.352	1.331	1.314	1.296	1.272	1.232	1.175	1.118	
68	0.808	0.844	0.885	0.932	1.000	1.091	1.171	1.208	1.201	1.180	1.162	1.146	1.128	1.106	1.073	1.026	0.981	
69	0.705	0.735	0.769	0.809	0.869	0.948	1.018	1.085	1.075	1.029	1.014	0.998	0.979	0.959	0.932	0.895	0.858	
70	6.140	6.390	6.672	7.013	7.536	8.228	8.838	9.111	9.084	8.959	8.830	8.675	8.488	8.302	8.089	7.798	7.501	- 5
71	5.340	5.546	5.783	6.079	6.536	7.136	7.658	7.892	7.880	7.790	7.683	7.530	7.344	7.174	7.006	6.780	6.543	
72	4.636	4.807	5.007	5.266	5.666	6.183	6.625	6.823	6.824	6.764	6.675	6.526	6.342	6.189	6.057	5.884	5.696	
73	4.019	4.160	4.331	4.559	4.910	5.353	5.722	5.886	5.897	5.862	5.790	5.645	5.466	5.329	5.227	5.097	4.947	
74	3.480	3.596	3.743	3.945	4.252	4.628	4.932	5.066	5.084	5.069	5.011	4.873	4.703	4.580	4.503	4.405	4.285	
75	3.009	3.106	3.232	3.411	3.678	3.996	4.243	4.349	4.369	4.371	4.326	4.198	4.038	3.929	3.871	3.798	3.702	
76	2.597	2.679	2.789	2.946	3.177	3.443	3.641	3.721	3.741	3.754	3.722	3.606	3.459	3.363	3.320	3.266	3.187	
77	2.236	2.309	2.406	2.541	2.738	2.958	3.114	3.172	3.189	3.209	3.190	3.088	2.9>					

OCTOBER

ZONAL MEAN DENSITY (KG/M CU)

KM LAT =	-80	-70	-60	-50	-40	-30	-20	-10	0	10	20	30	40	50	60	70	80	BEG
18	1.102	1.085	1.095	1.149	1.227	1.289	1.322	1.336	1.342	1.339	1.322	1.290	1.245	1.191	1.143	1.110	1.096	- 1
19	0.941	0.931	0.941	0.985	1.046	1.092	1.114	1.122	1.126	1.127	1.117	1.095	1.062	1.021	0.983	0.957	0.945	
20	2.900	2.903	8.065	8.451	8.916	9.246	9.383	9.425	9.452	9.464	9.417	9.278	9.041	8.735	8.439	8.230	8.129	- 2
21	6.563	6.668	6.896	7.249	7.607	7.830	7.907	7.922	7.938	7.951	7.932	7.852	7.693	7.469	7.237	7.065	6.977	
22	5.423	5.605	5.887	6.219	6.495	6.638	6.671	6.669	6.676	6.688	6.686	6.647	6.546	6.385	6.203	6.059	5.982	
23	4.471	4.704	5.020	5.333	5.549	5.635	5.639	5.626	5.626	5.636	5.645	5.632	5.573	5.457	5.314	5.194	5.125	
24	3.689	3.947	4.279	4.573	4.744	4.791	4.777	4.757	4.753	4.761	4.775	4.780	4.748	4.664	4.551	4.450	4.388	
25	3.051	3.315	3.646	3.919	4.058	4.080	4.055	4.032	4.025	4.032	4.049	4.064	4.048	3.987	3.896	3.810	3.755	
26	2.533	2.790	3.108	3.357	3.471	3.479	3.449	3.425	3.416	3.423	3.442	3.460	3.454	3.408	3.334	3.261	3.211	
27	2.112	2.355	2.650	2.875	2.971	2.971	2.940	2.915	2.906	2.913	2.932	2.951	2.949	2.913	2.852	2.789	2.744	
28	1.771	1.993	2.261	2.461	2.542	2.540	2.510	2.487	2.478	2.484	2.503	2.521	2.519	2.490	2.439	2.384	2.342	
29	1.493	1.692	1.930	2.106	2.176	2.173	2.147	2.125	2.117	2.123	2.141	2.156	2.153	2.128	2.081	2.036	1.997	
30	1.266	1.441	1.650	1.802	1.862	1.861	1.839	1.819	1.812	1.818	1.834	1.846	1.842	1.818	1.781	1.737	1.700	
31	1.079	1.232	1.412	1.542	1.594	1.595	1.577	1.560	1.553	1.559	1.573	1.582	1.576	1.554	1.521	1.481	1.446	
32	0.925	1.056	1.210	1.320	1.365	1.368	1.354	1.340	1.333	1.340	1.352	1.357	1.349	1.328	1.298	1.262	1.228	
33	0.797	0.909	1.039	1.131	1.170	1.174	1.164	1.152	1.147	1.152	1.162	1.165	1.155	1.135	1.108	1.074	1.042	
34	0.689	0.784	0.893	0.969	1.003	1.008	1.002	0.992	0.988	0.993	1.001	1.001	0.990	0.971	0.946	0.914	0.884	
35	5.989	6.788	7.690	8.320	8.602	8.670	8.632	8.554	8.517	8.562	8.627	8.610	8.488	8.308	8.077	7.800	7.490	- 3
36	5.222	5.891	6.636	7.149	7.387	7.462	7.448	7.388	7.356	7.395	7.444	7.411	7.286	7.115	6.900	6.620	6.345	
37	4.569	5.127	5.737	6.152	6.352	6.431	6.434	6.390	6.364	6.395	6.430	6.387	6.261	6.099	5.899	5.635	5.375	
38	4.008	4.473	4.971	5.304	5.471	5.550	5.567	5.536	5.514	5.539	5.562	5.510	5.386	5.234	5.048	4.800	4.555	
39	3.525	3.911	4.316	4.581	4.720	4.798	4.825	4.804	4.786	4.805	4.817	4.761	4.641	4.499	4.324	4.092	3.862	
40	3.107	3.427	3.755	3.966	4.080	4.155	4.189	4.177	4.161	4.175	4.179	4.119	4.005	3.873	3.710	3.492	3.279	
41	2.743	3.009	3.275	3.441	3.534	3.605	3.644	3.638	3.625	3.634	3.631	3.570	3.462	3.340	3.189	2.985	2.787	
42	2.426	2.647	2.862	2.992	3.069	3.135	3.176	3.175	3.164	3.169	3.160	3.100	2.999	2.886	2.745	2.556	2.373	
43	2.149	2.332	2.506	2.608	2.671	2.732	2.773	2.777	2.768	2.769	2.756	2.697	2.604	2.500	2.369	2.193	2.024	
44	1.905	2.058	2.199	2.279	2.331	2.386	2.427	2.434	2.426	2.428	2.408	2.351	2.265	2.170	2.048	1.885	1.731	
45	1.692	1.819	1.934	1.996	2.039	2.089	2.129	2.137	2.131	2.126	2.108	2.054	1.975	1.888	1.775	1.625	1.483	
46	1.503	1.610	1.703	1.752	1.788	1.834	1.871	1.881	1.875	1.869	1.849	1.798	1.726	1.646	1.542	1.403	1.275	
47	1.337	1.426	1.502	1.541	1.571	1.613	1.648	1.659	1.653	1.646	1.626	1.578	1.512	1.439	1.342	1.215	1.099	
48	1.190	1.265	1.327	1.359	1.384	1.422	1.455	1.465	1.461	1.453	1.432	1.387	1.328	1.260	1.171	1.055	0.950	
49	1.059	1.122	1.174	1.200	1.222	1.255	1.286	1.296	1.293	1.284	1.264	1.222	1.168	1.106	1.024	0.918	0.823	
50	0.944	0.997	1.039	1.061	1.080	1.110	1.138	1.149	1.146	1.137	1.117	1.079	1.029	0.973	0.897	0.801	0.716	
51	0.841	0.885	0.921	0.939	0.956	0.983	1.009	1.019	1.017	1.008	0.989	0.954	0.909	0.857	0.788	0.700	0.624	
52	7.495	7.865	8.164	8.315	8.470	8.717	8.951	9.050	9.030	8.945	8.760	8.440	8.033	7.558	6.923	6.136	5.452	- 4
53	6.680	6.989	7.238	7.369	7.510	7.732	7.946	8.041	8.026	7.944	7.769	7.477	7.109	6.673	6.093	5.384	4.776	
54	5.953	6.209	6.416	6.532	6.660	6.861	7.055	7.146	7.135	7.057	6.894	6.628	6.294	5.895	5.367	4.731	4.193	
55	5.304	5.514	5.687	5.788	5.906	6.087	6.264	6.350	6.344	6.271	6.119	5.878	5.575	5.210	4.730	4.162	3.687	
56	4.722	4.894	5.037	5.127	5.235	5.398	5.559	5.641	5.638	5.570	5.430	5.212	4.938	4.604	4.169	3.664	3.246	
57	4.202	4.340	4.458	4.537	4.636	4.784	4.930	5.008	5.007	4.945	4.816	4.619	4.371	4.067	3.675	3.227	2.862	
58	3.735	3.846	3.943	4.012	4.102	4.235	4.367	4.441	4.443	4.386	4.268	4.091	3.867	3.590	3.237	2.843	2.524	
59	3.317	3.405	3.483	3.543	3.625	3.745	3.865	3.933	3.937	3.885	3.779	3.620	3.417	3.166	2.850	2.503	2.227	
60	2.942	3.011	3.073	3.125	3.199	3.307	3.415	3.479	3.484	3.437	3.341	3.199	3.016	2.788	2.507	2.204	1.965	
61	2.606	2.659	2.708	2.752	2.819	2.916	3.013	3.072	3.077	3.036	2.950	2.823	2.658	2.452	2.202	1.938	1.733	
62	2.305	2.345	2.383	2.420	2.480	2.567	2.654	2.707	2.713	2.676	2.600	2.487	2.338	2.153	1.932	1.703	1.528	
63	2.035	2.065	2.094	2.126	2.178	2.256	2.334	2.382	2.387	2.355	2.288	2.187	2.053	1.887	1.692	1.495	1.346	
64	1.794	1.816	1.838	1.864	1.910	1.980	2.049	2.091	2.096	2.068	2.010	1.920	1.799	1.650	1.480	1.311	1.184	
65	1.579	1.595	1.611	1.632	1.673	1.735	1.796	1.833	1.836	1.813	1.762	1.682	1.573	1.441	1.293	1.148	1.041	
66	1.387	1.399	1.410	1.427	1.463	1.518	1.572	1.603	1.605	1.586	1.542	1.471	1.373	1.255	1.127	1.004	0.914	
67	1.217	1.225	1.233	1.246	1.278	1.327	1.374	1.399	1.400	1.384	1.348	1.284	1.196	1.092	0.981	0.877	0.802	
68	1.065	1.072	1.077	1.088	1.116	1.159	1.199	1.218	1.219	1.206	1.175	1.120	1.040	0.948	0.853	0.766	0.702	
69	0.931	0.936	0.939	0.948	0.973	1.011	1.044	1.059	1.058	1.048	1.023	0.974	0.903	0.822	0.741	0.667	0.614	
70	8.132	8.170	8.186	8.254	8.472	8.807	9.085	9.187	9.166	9.094	8.896	8.463	7.824	7.113	6.424	5.810	5.364	- 5
71	7.090	7.121	7.128	7.181	7.374	7.667	7.873	7.953	7.922	7.874	7.720	7.340	6.769	6.147	5.564	5.053	4.680	
72	6.173	6.200	6.200	6.242	6.412	6.667	6.845	6.869	6.831	6.803	6.687	6.356	5.846	5.305	4.815	4.390	4.078	
73	5.368	5.392	5.388	5.421	5.570	5.789	5.926	5.919	5.875	5.864	5.782	5.495	5.041	4.572	4.161	3.810	3.549	
74	4.663	4.685	4.678	4.703	4.832	5.018	5.118	5.087	5.039	5.042	4.988	4.741	4.340	3.935	3.593	3.303	3.083	
75	4.045	4.066	4.057	4.074	4.184	4.340	4.409	4.360	4.309	4.323	4.292	4.082	3.730	3.382	3.098	2.859	2.674	
76	3.503	3.524	3.513	3.523	3.615	3.743	3.785	3.723	3.673	3.694	3.683	3.505	3.200	2.902	2.668	2.471	2.314	
77	3.030	3.050	3.038	3.040	3.114	3.216	3.237	3.167	3.119	3.146	3.148	3.001	2.738	2.486	2.293	2.130	1.997	
78	2.616	2.635	2.622	2.616	2.671	2.749	2.755	2.682	2.627	2.680	2.680	2.560	2.337	2.126	1.967	1.832	1.717	
79	2.253	2.272	2.258	2.244	2.281	2.337	2.330	2.259	2.218	2.249	2.269	2.174	1.988	1.813	1.682	1.569	1.471	
80	1.936	1.954	1.938	1.917	1.935	1.971	1.956	1.891	1.855	1.885	1.909	1.836	1.684	1.541	1.434	1.338	1.253	

NOVEMBER

ZONAL MEAN DENSITY (KG/M CU)

KM LAT =	-80	-70	-60	-50	-40	-30	-20	-10	0	10	20	30	40	50	60	70	80 DEG
18	1.037	1.082	1.146	1.222	1.296	1.350	1.372	1.369	1.363	1.360	1.343	1.299	1.236	1.181	1.144	1.120	1.102
19	0.895	0.933	0.986	1.044	1.099	1.137	1.150	1.146	1.141	1.142	1.133	1.102	1.055	1.012	0.983	0.963	0.949
20	2.687	8.015	8.456	8.920	9.323	9.576	9.640	9.592	9.560	9.576	9.533	9.322	8.986	8.663	8.429	8.263	8.142
21	6.590	6.872	7.245	7.615	7.908	8.067	8.088	8.040	8.016	8.034	8.015	7.879	7.645	7.403	7.213	7.070	6.969
22	5.642	5.884	6.200	6.497	6.708	6.802	6.796	6.750	6.731	6.746	6.742	6.659	6.501	6.321	6.163	6.037	5.949
23	4.828	5.036	5.302	5.541	5.693	5.742	5.720	5.678	5.661	5.673	5.677	5.612	5.529	5.394	5.260	5.146	5.065
24	4.132	4.309	4.532	4.724	4.832	4.854	4.824	4.786	4.770	4.779	4.788	4.768	4.703	4.601	4.485	4.379	4.303
25	3.538	3.688	3.874	4.027	4.104	4.109	4.078	4.043	4.028	4.034	4.046	4.042	4.002	3.923	3.821	3.721	3.647
26	3.033	3.160	3.313	3.432	3.487	3.484	3.454	3.423	3.409	3.412	3.426	3.431	3.406	3.344	3.252	3.157	3.084
27	2.602	2.709	2.834	2.927	2.965	2.958	2.931	2.905	2.891	2.893	2.907	2.916	2.901	2.848	2.766	2.675	2.602
28	2.236	2.325	2.426	2.497	2.523	2.516	2.493	2.470	2.457	2.459	2.472	2.482	2.471	2.425	2.350	2.263	2.192
29	1.924	1.999	2.079	2.132	2.149	2.142	2.124	2.105	2.093	2.094	2.106	2.116	2.105	2.064	1.995	1.913	1.844
30	1.659	1.720	1.784	1.822	1.833	1.827	1.814	1.797	1.786	1.787	1.798	1.805	1.794	1.757	1.693	1.615	1.549
31	1.432	1.483	1.532	1.557	1.565	1.561	1.551	1.537	1.528	1.529	1.538	1.542	1.530	1.494	1.435	1.363	1.301
32	1.239	1.280	1.318	1.336	1.338	1.336	1.329	1.318	1.310	1.311	1.318	1.319	1.305	1.271	1.217	1.150	1.091
33	1.073	1.107	1.136	1.146	1.146	1.145	1.141	1.132	1.125	1.126	1.131	1.130	1.113	1.081	1.031	0.969	0.915
34	9.311	9.592	9.801	9.853	9.836	9.830	9.807	9.739	9.683	9.692	9.726	9.683	9.508	9.197	8.739	8.174	7.679
35	8.094	8.323	8.474	8.486	8.456	8.455	8.447	8.396	8.350	8.359	8.376	8.311	8.126	7.829	7.409	6.896	6.447
36	7.047	7.234	7.341	7.325	7.285	7.287	7.288	7.251	7.216	7.223	7.226	7.144	6.952	6.669	6.285	5.822	5.418
37	6.147	6.299	6.372	6.336	6.293	6.301	6.274	6.246	6.253	6.244	6.148	5.955	5.686	5.336	4.921	4.560	
38	5.370	5.494	5.541	5.493	5.444	5.445	5.457	5.440	5.420	5.423	5.404	5.300	5.108	4.855	4.537	4.165	3.844
39	4.700	4.801	4.829	4.774	4.722	4.722	4.736	4.725	4.711	4.712	4.685	4.576	4.388	4.151	3.862	3.531	3.247
40	4.120	4.203	4.217	4.158	4.106	4.105	4.118	4.112	4.102	4.101	4.069	3.958	3.777	3.556	3.294	3.000	2.750
41	3.617	3.685	3.691	3.631	3.580	3.576	3.588	3.585	3.579	3.577	3.541	3.430	3.251	3.052	2.816	2.554	2.335
42	3.181	3.237	3.237	3.178	3.128	3.122	3.133	3.132	3.128	3.124	3.086	2.979	2.815	2.625	2.412	2.180	1.988
43	2.802	2.849	2.844	2.788	2.741	2.733	2.741	2.741	2.738	2.734	2.695	2.592	2.438	2.264	2.071	1.866	1.698
44	2.472	2.511	2.504	2.452	2.407	2.397	2.404	2.404	2.402	2.397	2.358	2.260	2.117	1.957	1.783	1.602	1.456
45	2.184	2.217	2.209	2.160	2.115	2.108	2.112	2.112	2.110	2.105	2.067	1.975	1.843	1.696	1.539	1.380	1.252
46	1.933	1.961	1.952	1.908	1.869	1.857	1.869	1.868	1.865	1.861	1.816	1.730	1.608	1.473	1.333	1.192	1.080
47	1.713	1.736	1.728	1.687	1.652	1.639	1.639	1.638	1.636	1.630	1.597	1.518	1.406	1.283	1.157	1.033	0.935
48	1.520	1.540	1.531	1.495	1.462	1.450	1.448	1.446	1.444	1.439	1.407	1.335	1.232	1.120	1.007	0.897	0.812
49	1.350	1.367	1.359	1.327	1.297	1.284	1.281	1.278	1.276	1.270	1.242	1.176	1.082	0.980	0.879	0.782	0.708
50	1.201	1.216	1.208	1.179	1.151	1.139	1.135	1.131	1.128	1.123	1.098	1.037	0.952	0.860	0.769	0.684	0.619
51	1.069	1.082	1.075	1.048	1.023	1.011	1.006	1.002	0.999	0.994	0.971	0.917	0.839	0.755	0.674	0.599	0.543
52	9.525	9.633	9.566	9.329	9.102	8.987	8.931	8.880	8.851	8.810	8.601	8.106	7.401	6.647	5.921	5.259	4.767
53	8.493	8.584	8.519	8.106	7.990	7.929	7.876	7.846	7.810	7.623	7.175	6.536	5.856	5.209	4.627	4.128	
54	7.571	7.652	7.590	7.396	7.210	7.104	7.042	6.987	6.959	6.927	6.759	6.354	5.776	5.163	4.587	4.074	3.703
55	6.762	6.822	6.762	6.586	6.416	6.316	6.253	6.200	6.173	6.145	5.994	5.628	5.105	4.554	4.043	3.595	3.270
56	6.035	6.083	6.023	5.863	5.709	5.614	5.552	5.500	5.476	5.451	5.315	4.984	4.511	4.018	3.565	3.173	2.890
57	5.386	5.422	5.363	5.216	5.075	4.987	4.926	4.877	4.856	4.835	4.712	4.411	3.985	3.543	3.144	2.801	2.556
58	4.806	4.831	4.772	4.638	4.509	4.426	4.367	4.322	4.304	4.286	4.174	3.901	3.517	3.123	2.771	2.473	2.260
59	4.286	4.302	4.243	4.119	4.001	3.924	3.869	3.827	3.812	3.797	3.695	3.447	3.101	2.751	2.441	2.182	1.997
60	3.820	3.827	3.768	3.654	3.547	3.474	3.423	3.385	3.373	3.361	3.267	3.042	2.731	2.420	2.149	1.924	1.764
61	3.401	3.401	3.343	3.238	3.140	3.072	3.024	2.991	2.982	2.971	2.885	2.680	2.401	2.126	1.890	1.695	1.557
62	3.025	3.019	2.961	2.865	2.775	2.713	2.669	2.639	2.632	2.623	2.545	2.358	2.108	1.866	1.660	1.491	1.372
63	2.688	2.676	2.619	2.530	2.449	2.392	2.351	2.325	2.320	2.312	2.240	2.072	1.848	1.634	1.456	1.310	1.207
64	2.385	2.369	2.313	2.231	2.158	2.106	2.068	2.045	2.041	2.035	1.969	1.817	1.617	1.430	1.275	1.150	1.061
65	2.112	2.093	2.039	1.964	1.898	1.851	1.817	1.795	1.793	1.787	1.728	1.590	1.413	1.249	1.115	1.007	0.931
66	1.888	1.847	1.794	1.726	1.667	1.625	1.593	1.571	1.571	1.566	1.513	1.390	1.233	1.089	0.974	0.881	0.815
67	1.649	1.626	1.576	1.514	1.461	1.424	1.395	1.376	1.374	1.370	1.323	1.213	1.074	0.949	0.850	0.770	0.713
68	1.453	1.430	1.382	1.325	1.278	1.245	1.219	1.203	1.199	1.195	1.154	1.056	0.934	0.825	0.740	0.672	0.622
69	1.278	1.254	1.209	1.157	1.116	1.088	1.063	1.046	1.042	1.040	1.004	0.919	0.811	0.717	0.644	0.586	0.542
70	1.122	1.099	1.056	1.009	0.973	0.948	0.926	0.909	0.904	0.903	0.871	0.798	0.704	0.623	0.560	0.510	0.472
71	9.833	9.605	9.207	8.778	8.466	8.253	8.048	7.875	7.825	7.816	7.562	6.917	6.102	5.401	4.868	4.434	4.103
72	8.597	8.382	8.010	7.621	7.349	7.168	6.980	6.808	6.749	6.746	6.539	5.987	5.283	4.680	4.226	3.852	3.562
73	7.502	7.301	6.957	6.603	6.366	6.212	6.040	5.869	5.803	5.805	5.642	5.174	4.568	4.052	3.666	3.344	3.089
74	6.532	6.348	6.030	5.708	5.500	5.370	5.212	5.044	4.973	4.979	4.854	4.463	3.945	3.505	3.178	2.900	2.675
75	5.676	5.509	5.217	4.923	4.740	4.629	4.484	4.321	4.247	4.257	4.165	3.841	3.401	3.028	2.752	2.512	2.314
76	4.921	4.772	4.505	4.237	4.073	3.976	3.844	3.688	3.614	3.626	3.563	3.298	2.927	2.612	2.379	2.174	1.999
77	4.256	4.125	3.882	3.637	3.489	3.403	3.282	3.136	3.064	3.078	3.037	2.823	2.513	2.249	2.054	1.877	1.724
78	3.672	3.558	3.339	3.114	2.978	2.899	2.789	2.655	2.588	2.603	2.579	2.408	2.151	1.932	1.769	1.618	1.484
79	3.159	3.062	2.866	2.659	2.531	2.457	2.358	2.237	2.176	2.191	2.180	2.045	1.835	1.654	1.518	1.390	1.274
80	2.710	2.627	2.453	2.264	2.142	2.070	1.980	1.874	1.821	1.836	1.833	1.727	1.557	1.409	1.298	1.190	1.090

DECEMBER

ZONAL MEAN DENSITY (PG/M CU)

KM LAT =	-80	-70	-60	-50	-40	-30	-20	-10	0	10	20	30	40	50	60	70	80 DEG	
18	1.097	1.117	1.157	1.222	1.301	1.363	1.386	1.378	1.467	1.362	1.345	1.296	1.226	1.166	1.132	1.117	1.109	- 1
19	0.947	0.962	0.994	1.043	1.099	1.141	1.155	1.149	1.143	1.143	1.134	1.099	1.047	1.000	0.972	0.958	0.951	
20	8.160	8.287	8.531	8.893	9.291	9.577	9.659	9.609	9.577	9.597	9.544	9.297	8.906	8.540	8.308	8.185	8.114	- 2
21	7.031	7.132	7.318	7.584	7.864	8.053	8.096	8.054	8.034	8.057	8.027	7.850	7.561	7.280	7.085	6.964	6.883	
22	6.057	6.134	6.275	6.468	6.662	6.784	6.802	6.765	6.750	6.770	6.751	6.626	6.416	6.201	6.033	5.908	5.813	
23	5.217	5.276	5.379	5.516	5.647	5.725	5.727	5.694	5.681	5.695	5.682	5.595	5.445	5.281	5.133	5.000	4.889	
24	4.495	4.537	4.610	4.705	4.794	4.839	4.832	4.802	4.789	4.797	4.788	4.729	4.625	4.499	4.365	4.223	4.100	
25	3.874	3.903	3.952	4.015	4.071	4.097	4.085	4.058	4.045	4.047	4.040	4.002	3.931	3.835	3.710	3.562	3.429	
26	3.340	3.358	3.389	3.428	3.462	3.473	3.459	3.436	3.422	3.421	3.416	3.392	3.345	3.270	3.153	3.001	2.863	
27	2.881	2.891	2.908	2.929	2.947	2.949	2.935	2.914	2.901	2.897	2.893	2.879	2.849	2.789	2.678	2.527	2.388	
28	2.487	2.491	2.497	2.505	2.511	2.509	2.495	2.476	2.464	2.458	2.455	2.447	2.429	2.379	2.275	2.126	1.990	
29	2.148	2.148	2.146	2.145	2.143	2.137	2.124	2.108	2.097	2.091	2.087	2.084	2.072	2.029	1.931	1.789	1.659	
30	1.857	1.853	1.846	1.839	1.832	1.824	1.812	1.798	1.788	1.782	1.779	1.777	1.768	1.731	1.639	1.505	1.384	
31	1.607	1.601	1.590	1.579	1.569	1.560	1.549	1.537	1.528	1.522	1.519	1.517	1.511	1.476	1.391	1.266	1.155	
32	1.393	1.385	1.372	1.357	1.346	1.336	1.326	1.316	1.308	1.303	1.299	1.298	1.291	1.259	1.180	1.066	0.966	
33	1.208	1.199	1.185	1.169	1.156	1.147	1.138	1.129	1.122	1.117	1.114	1.111	1.104	1.074	1.001	0.899	0.809	
34	1.049	1.040	1.025	1.009	0.996	0.986	0.978	0.971	0.965	0.961	0.957	0.953	0.945	0.915	0.850	0.758	0.678	
35	9.116	9.032	8.888	8.723	8.589	8.497	8.424	8.359	8.311	8.275	8.237	8.191	8.092	7.808	7.212	6.400	5.705	- 3
36	7.936	7.855	7.716	7.557	7.426	7.337	7.270	7.213	7.173	7.143	7.105	7.048	6.937	6.663	6.124	5.412	4.809	
37	6.918	6.843	6.712	6.560	6.434	6.349	6.286	6.237	6.204	6.179	6.141	6.075	5.954	5.689	5.205	4.583	4.064	
38	6.039	5.970	5.849	5.706	5.587	5.505	5.446	5.402	5.375	5.355	5.318	5.246	5.116	4.862	4.428	3.888	3.444	
39	5.279	5.218	5.107	4.974	4.862	4.783	4.728	4.688	4.666	4.650	4.614	4.538	4.403	4.160	3.771	3.305	2.926	
40	4.623	4.568	4.467	4.345	4.240	4.165	4.113	4.076	4.058	4.045	4.011	3.933	3.795	3.564	3.217	2.815	2.493	
41	4.054	4.006	3.915	3.803	3.705	3.634	3.584	3.550	3.534	3.525	3.494	3.416	3.278	3.059	2.749	2.403	2.131	
42	3.561	3.519	3.438	3.336	3.245	3.178	3.130	3.098	3.084	3.077	3.049	2.973	2.837	2.630	2.354	2.056	1.826	
43	3.133	3.096	3.024	2.932	2.847	2.784	2.738	2.707	2.695	2.691	2.665	2.592	2.460	2.266	2.020	1.763	1.569	
44	2.761	2.729	2.665	2.581	2.503	2.444	2.400	2.370	2.359	2.356	2.334	2.265	2.139	1.957	1.737	1.516	1.352	
45	2.437	2.410	2.353	2.277	2.205	2.149	2.107	2.078	2.067	2.066	2.048	1.984	1.863	1.695	1.497	1.307	1.168	
46	2.154	2.131	2.081	2.012	1.946	1.893	1.852	1.825	1.814	1.815	1.799	1.740	1.627	1.471	1.294	1.129	1.011	
47	1.908	1.888	1.843	1.780	1.719	1.670	1.631	1.605	1.594	1.596	1.584	1.530	1.424	1.280	1.121	0.978	0.878	
48	1.692	1.674	1.634	1.578	1.522	1.476	1.439	1.413	1.403	1.405	1.396	1.347	1.249	1.116	0.974	0.849	0.764	
49	1.502	1.487	1.452	1.400	1.349	1.306	1.271	1.246	1.236	1.238	1.232	1.188	1.098	0.975	0.848	0.739	0.666	
50	1.336	1.323	1.291	1.244	1.197	1.157	1.124	1.099	1.090	1.093	1.088	1.049	0.966	0.854	0.740	0.645	0.582	
51	1.190	1.178	1.149	1.106	1.063	1.026	0.995	0.971	0.962	0.965	0.962	0.928	0.851	0.751	0.659	0.567	0.510	
52	1.060	1.050	1.023	0.985	0.945	0.911	0.881	0.859	0.850	0.853	0.851	0.821	0.751	0.659	0.567	0.493	0.447	
53	9.463	9.369	9.124	8.767	8.404	8.088	7.814	7.501	7.513	7.546	7.540	7.265	6.633	5.793	4.974	4.329	3.926	- 4
54	8.452	8.364	8.139	7.811	7.478	7.188	6.932	6.732	6.648	6.679	6.680	6.433	5.858	5.100	4.370	3.803	3.452	
55	7.555	7.472	7.263	6.961	6.656	6.390	6.152	5.964	5.885	5.916	5.920	5.695	5.173	4.491	3.843	3.345	3.039	
56	6.756	6.677	6.482	6.203	5.925	5.681	5.462	5.286	5.213	5.242	5.246	5.040	4.566	3.955	3.382	2.945	2.678	
57	6.044	5.968	5.785	5.528	5.273	5.050	4.848	4.686	4.618	4.645	4.648	4.458	4.027	3.482	2.976	2.594	2.361	
58	5.409	5.334	5.161	4.924	4.691	4.488	4.303	4.154	4.093	4.117	4.117	3.939	3.548	3.063	2.620	2.286	2.083	
59	4.839	4.767	4.604	4.383	4.171	3.987	3.817	3.682	3.627	3.649	3.645	3.477	3.122	2.692	2.305	2.015	1.838	
60	4.329	4.258	4.103	3.900	3.706	3.538	3.385	3.262	3.213	3.234	3.225	3.065	2.742	2.363	2.027	1.776	1.622	
61	3.871	3.801	3.655	3.466	3.289	3.138	2.998	2.888	2.846	2.864	2.850	2.698	2.405	2.072	1.781	1.565	1.430	
62	3.459	3.391	3.252	3.077	2.916	2.779	2.653	2.555	2.519	2.535	2.517	2.371	2.106	1.813	1.564	1.378	1.261	
63	3.088	3.021	2.890	2.728	2.581	2.458	2.345	2.258	2.228	2.242	2.220	2.080	1.840	1.585	1.371	1.212	1.111	
64	2.754	2.689	2.565	2.415	2.281	2.170	2.070	1.993	1.968	1.980	1.955	1.822	1.605	1.383	1.201	1.066	0.979	
65	2.454	2.391	2.273	2.134	2.012	1.913	1.823	1.756	1.736	1.747	1.719	1.594	1.398	1.205	1.051	0.936	0.861	
66	2.182	2.122	2.011	1.883	1.772	1.682	1.603	1.545	1.529	1.539	1.509	1.391	1.216	1.049	0.919	0.821	0.756	
67	1.938	1.880	1.776	1.657	1.557	1.477	1.407	1.356	1.344	1.353	1.323	1.213	1.056	0.912	0.802	0.720	0.663	
68	1.718	1.662	1.565	1.456	1.364	1.293	1.231	1.188	1.178	1.186	1.157	1.056	0.916	0.792	0.699	0.630	0.581	
69	1.519	1.467	1.377	1.276	1.192	1.129	1.075	1.038	1.031	1.038	1.010	0.918	0.794	0.687	0.609	0.550	0.508	
70	1.341	1.292	1.208	1.115	1.040	0.983	0.936	0.904	0.899	0.906	0.880	0.796	0.688	0.596	0.530	0.480	0.443	
71	1.180	1.135	1.057	0.972	0.904	0.854	0.813	0.786	0.782	0.788	0.764	0.690	0.595	0.517	0.461	0.419	0.386	
72	1.037	0.994	0.923	0.845	0.783	0.739	0.704	0.680	0.677	0.683	0.662	0.597	0.515	0.448	0.401	0.364	0.336	
73	9.077	8.689	8.030	7.318	6.767	6.382	6.076	5.873	5.849	5.902	5.722	5.156	4.447	3.878	3.484	3.167	2.913	- 5
74	7.924	7.571	6.969	6.321	5.828	5.491	5.228	5.052	5.031	5.079	4.928	4.445	3.839	3.357	3.023	2.749	2.524	
75	6.896	6.576	6.029	5.443	5.002	4.709	4.484	4.331	4.311	4.354	4.231	3.823	3.310	2.903	2.621	2.383	2.185	
76	5.980	5.693	5.198	4.671	4.279	4.026	3.833	3.699	3.678	3.716	3.618	3.280	2.850	2.508	2.269	2.063	1.888	
77																		

ZONAL MEAN NUMBER DENSITY (/M CU)

KM LAT =	-80	-70	-60	-50	-40	-30	-20	-10	0	10	20	30	40	50	60	70	80 DEG	
JANUARY																		
18	2.32	2.34	2.40	2.51	2.65	2.76	2.80	2.80	2.80	2.79	2.74	2.63	2.48	2.37	2.32	2.31	2.31	+24
20	1.73	1.74	1.77	1.83	1.90	1.94	1.96	1.97	1.97	1.98	1.95	1.89	1.80	1.73	1.69	1.68	1.67	
22	1.28	1.29	1.30	1.33	1.36	1.39	1.39	1.39	1.39	1.40	1.39	1.35	1.30	1.26	1.22	1.20	1.18	
24	9.51	9.53	9.61	9.74	9.88	9.95	9.94	9.92	9.91	9.92	9.86	9.67	9.43	9.12	8.80	8.49	8.23	+23
26	7.06	7.07	7.09	7.14	7.18	7.19	7.16	7.12	7.10	7.09	7.07	7.00	6.86	6.65	6.35	6.02	5.74	
28	5.26	5.25	5.25	5.25	5.25	5.23	5.19	5.15	5.12	5.11	5.11	5.09	5.02	4.86	4.60	4.29	4.03	
30	3.93	3.91	3.90	3.88	3.86	3.82	3.78	3.75	3.72	3.72	3.72	3.72	3.68	3.56	3.34	3.08	2.86	
32	2.94	2.93	2.91	2.88	2.85	2.81	2.77	2.74	2.73	2.72	2.73	2.73	2.71	2.62	2.44	2.23	2.05	
34	2.21	2.20	2.18	2.15	2.12	2.08	2.04	2.02	2.01	2.01	2.01	2.01	2.00	1.93	1.79	1.63	1.49	
36	1.67	1.66	1.64	1.62	1.58	1.55	1.52	1.50	1.49	1.49	1.49	1.49	1.48	1.42	1.32	1.20	1.09	
38	1.27	1.26	1.25	1.22	1.19	1.16	1.13	1.12	1.11	1.11	1.11	1.11	1.09	1.06	0.98	0.89	0.81	
40	9.70	9.65	9.53	9.31	9.03	8.76	8.54	8.40	8.35	8.35	8.34	8.30	8.16	7.86	7.32	6.62	6.04	+22
42	7.45	7.43	7.32	7.14	6.90	6.66	6.47	6.36	6.32	6.32	6.31	6.25	6.13	5.90	5.49	4.98	4.53	
44	5.77	5.75	5.67	5.51	5.31	5.10	4.94	4.84	4.81	4.82	4.80	4.75	4.64	4.46	4.15	3.76	3.42	
46	4.49	4.46	4.42	4.28	4.11	3.94	3.80	3.72	3.69	3.69	3.68	3.64	3.55	3.40	3.15	2.85	2.59	
48	3.52	3.52	3.46	3.35	3.20	3.06	2.94	2.87	2.85	2.85	2.85	2.81	2.73	2.61	2.41	2.17	1.97	
50	2.78	2.77	2.73	2.63	2.51	2.39	2.29	2.23	2.21	2.22	2.22	2.19	2.12	2.01	1.85	1.66	1.50	
52	2.20	2.20	2.16	2.08	1.98	1.87	1.79	1.74	1.73	1.74	1.74	1.71	1.65	1.56	1.43	1.27	1.13	
54	1.76	1.75	1.71	1.65	1.56	1.48	1.41	1.36	1.35	1.36	1.37	1.34	1.29	1.21	1.10	0.98	0.88	
56	1.40	1.39	1.36	1.30	1.23	1.16	1.11	1.07	1.06	1.07	1.07	1.05	1.01	0.94	0.85	0.76	0.68	
58	1.12	1.11	1.08	1.03	0.97	0.92	0.87	0.84	0.84	0.84	0.85	0.83	0.78	0.73	0.66	0.58	0.53	
60	8.96	8.87	8.61	8.18	7.69	7.23	6.86	6.64	6.60	6.65	6.63	6.42	6.05	5.59	5.06	4.51	4.07	+21
62	7.15	7.06	6.83	6.45	6.04	5.66	5.38	5.22	5.18	5.22	5.17	4.97	4.64	4.26	3.87	3.47	3.16	
64	5.69	5.60	5.39	5.06	4.71	4.41	4.20	4.08	4.06	4.08	4.01	3.81	3.53	3.23	2.94	2.67	2.45	
66	4.51	4.43	4.23	3.94	3.65	3.41	3.25	3.17	3.16	3.17	3.09	2.91	2.66	2.43	2.22	2.04	1.89	
68	3.56	3.48	3.30	3.04	2.80	2.61	2.50	2.45	2.45	2.44	2.37	2.20	2.00	1.82	1.67	1.55	1.45	
70	2.79	2.71	2.55	2.33	2.12	1.98	1.90	1.87	1.88	1.87	1.80	1.66	1.49	1.36	1.25	1.17	1.10	
72	2.16	2.10	1.95	1.76	1.59	1.48	1.43	1.42	1.42	1.42	1.36	1.24	1.11	1.01	0.93	0.88	0.83	
74	1.66	1.60	1.48	1.32	1.18	1.10	1.06	1.06	1.07	1.06	1.01	0.93	0.83	0.75	0.70	0.65	0.62	
76	1.26	1.21	1.10	0.97	0.87	0.80	0.78	0.78	0.79	0.78	0.75	0.69	0.62	0.56	0.52	0.49	0.46	
78	9.35	8.95	8.12	7.11	6.28	5.82	5.65	5.66	5.72	5.70	5.48	5.04	4.54	4.12	3.83	3.60	3.42	+20
80	6.79	6.49	5.87	5.11	4.52	4.18	4.06	4.05	4.07	4.06	3.92	3.64	3.30	3.02	2.82	2.67	2.56	
FEBRUARY																		
18	2.29	2.33	2.42	2.54	2.67	2.76	2.80	2.82	2.84	2.83	2.78	2.65	2.50	2.36	2.28	2.23	2.20	+24
20	1.70	1.75	1.78	1.85	1.92	1.96	1.97	1.98	2.00	2.01	1.98	1.91	1.82	1.73	1.67	1.64	1.62	
22	1.26	1.28	1.31	1.35	1.38	1.40	1.40	1.40	1.40	1.41	1.40	1.36	1.31	1.26	1.22	1.16	1.14	
24	0.93	0.94	0.96	0.99	1.00	1.00	1.00	0.99	0.99	0.99	0.99	0.97	0.95	0.92	0.89	0.85	0.82	
26	6.91	6.96	7.07	7.21	7.27	7.24	7.15	7.09	7.08	7.08	7.06	7.01	6.92	6.75	6.46	6.12	5.83	+23
28	5.11	5.14	5.21	5.29	5.31	5.25	5.17	5.12	5.09	5.09	5.09	5.08	5.04	4.93	4.71	4.43	4.19	
30	3.79	3.81	3.86	3.89	3.89	3.84	3.77	3.72	3.70	3.70	3.70	3.70	3.68	3.61	3.44	3.22	3.03	
32	2.82	2.84	2.86	2.88	2.87	2.82	2.76	2.72	2.71	2.71	2.71	2.71	2.69	2.64	2.52	2.36	2.22	
34	2.10	2.12	2.14	2.14	2.12	2.09	2.04	2.01	1.99	2.00	2.00	2.00	1.98	1.93	1.85	1.73	1.63	
36	1.58	1.59	1.60	1.60	1.58	1.55	1.52	1.49	1.48	1.48	1.49	1.48	1.46	1.42	1.36	1.28	1.21	
38	1.19	1.20	1.21	1.20	1.19	1.16	1.14	1.11	1.10	1.11	1.11	1.10	1.08	1.05	1.00	0.94	0.89	
40	9.02	9.12	9.16	9.10	8.97	8.78	8.56	8.36	8.29	8.34	8.36	8.26	8.04	7.77	7.43	7.00	6.61	+22
42	6.89	6.97	6.99	6.93	6.83	6.68	6.50	6.34	6.29	6.33	6.34	6.24	6.04	5.81	5.54	5.21	4.90	
44	5.29	5.36	5.38	5.33	5.23	5.12	4.97	4.85	4.81	4.84	4.85	4.76	4.58	4.38	4.15	3.88	3.64	
46	4.09	4.15	4.16	4.12	4.04	3.95	3.84	3.74	3.71	3.73	3.74	3.68	3.51	3.33	3.14	2.91	2.71	
48	3.19	3.23	3.24	3.21	3.15	3.07	2.98	2.91	2.89	2.91	2.91	2.84	2.71	2.56	2.38	2.19	2.02	
50	2.49	2.53	2.54	2.52	2.46	2.39	2.32	2.27	2.26	2.28	2.28	2.22	2.11	1.98	1.82	1.66	1.52	
52	1.96	1.99	2.00	1.98	1.94	1.88	1.82	1.79	1.78	1.80	1.79	1.74	1.65	1.53	1.40	1.26	1.16	
54	1.55	1.57	1.58	1.57	1.53	1.48	1.43	1.41	1.41	1.42	1.42	1.37	1.29	1.19	1.08	0.97	0.88	
56	1.22	1.24	1.25	1.24	1.20	1.16	1.13	1.11	1.12	1.13	1.12	1.08	1.01	0.93	0.83	0.75	0.68	
58	9.67	9.82	9.89	9.77	9.47	9.12	8.86	8.77	8.83	8.91	8.82	8.45	7.86	7.16	6.44	5.78	5.31	+21
60	7.66	7.77	7.80	7.69	7.43	7.15	6.95	6.89	6.96	7.02	6.92	6.59	6.08	5.51	4.97	4.49	4.16	
62	6.05	6.13	6.13	6.02	5.80	5.58	5.42	5.39	5.45	5.49	5.39	5.09	4.66	4.22	3.82	3.49	3.27	
64	4.78	4.82	4.80	4.68	4.50	4.32	4.21	4.19	4.24	4.27	4.17	3.91	3.55	3.20	2.92	2.71	2.57	
66	3.76	3.77	3.73	3.61	3.46	3.33	3.25	3.24	3.27	3.29	3.20	2.98	2.68	2.42	2.23	2.10	2.02	
68	2.94	2.94	2.88	2.76	2.64	2.54	2.49	2.49	2.51	2.52	2.44	2.25	2.02	1.82	1.69	1.61	1.57	
70	2.29	2.27	2.20	2.09	1.99	1.93	1.90	1.90	1.91	1.91	1.84	1.69	1.51	1.36	1.27	1.23	1.21	
72	1.77	1.74	1.67	1.57	1.49	1.45	1.43	1.44	1.44	1.44	1.38	1.27	1.13	1.02	0.96	0.93	0.93	
74	1.35	1.32	1.25	1.17	1.10	1.07	1.07	1.08	1.08	1.07	1.03	0.95	0.84	0.76	0.72	0.70	0.70	
76	1.01	0.98	0.93	0.86	0.81	0.79	0.79	0.80	0.80	0.79	0.76	0.70	0.63	0.57	0.54	0.52	0.52	
78	7.42	7.22	6.78	6.25	5.88	5.75	5.76	5.79	5.80	5.78	5.59	5.16	4.63	4.21	3.98	3.91	3.90	+20
80	5.32	5.19	4.87	4.50	4.23	4.14	4.12	4.11	4.12	4.13	4.03	3.75	3.37	3.08	2.94	2.91	2.91	

ZONAL MEAN NUMBER DENSITY (/M CU)

KM LAT =	-80	-70	-60	-50	-40	-30	-20	-10	0	10	20	30	40	50	60	70	80 DEG	
MARCH																		
18	2.24	2.30	2.39	2.51	2.63	2.72	2.77	2.80	2.81	2.79	2.73	2.62	2.51	2.41	2.32	2.24	2.17	+24
20	1.66	1.70	1.77	1.84	1.91	1.95	1.97	1.97	1.98	1.97	1.94	1.89	1.83	1.77	1.71	1.66	1.61	
22	1.23	1.25	1.30	1.34	1.38	1.39	1.39	1.39	1.39	1.39	1.38	1.35	1.33	1.30	1.26	1.21	1.17	
24	0.90	0.92	0.95	0.98	1.00	1.00	0.99	0.99	0.99	0.99	0.98	0.97	0.96	0.95	0.92	0.88	0.85	
26	6.63	6.77	6.97	7.16	7.25	7.23	7.15	7.09	7.07	7.06	7.05	7.02	6.98	6.89	6.71	6.45	6.21	+23
28	4.86	4.97	5.12	5.24	5.28	5.25	5.18	5.13	5.10	5.10	5.10	5.09	5.07	5.02	4.89	4.72	4.55	
30	3.57	3.65	3.76	3.84	3.87	3.84	3.79	3.74	3.72	3.72	3.72	3.71	3.69	3.65	3.56	3.45	3.35	
32	2.62	2.69	2.76	2.82	2.84	2.82	2.78	2.74	2.72	2.73	2.72	2.70	2.65	2.60	2.53	2.47	2.47	
34	1.92	1.98	2.04	2.08	2.09	2.08	2.06	2.02	2.01	2.01	2.02	2.01	1.98	1.93	1.89	1.85	1.81	
36	1.41	1.46	1.51	1.54	1.55	1.55	1.53	1.50	1.49	1.49	1.50	1.49	1.46	1.42	1.38	1.36	1.33	
38	1.04	1.08	1.12	1.14	1.15	1.15	1.14	1.12	1.11	1.12	1.12	1.11	1.08	1.05	1.02	1.00	0.98	
40	7.75	8.05	8.35	8.56	8.66	8.67	8.59	8.46	8.39	8.42	8.44	8.33	8.07	7.78	7.53	7.36	7.24	+22
42	5.79	6.03	6.28	6.46	6.55	6.57	6.51	6.42	6.37	6.39	6.40	6.31	6.09	5.84	5.63	5.46	5.36	
44	4.35	4.55	4.76	4.92	4.99	5.01	4.98	4.92	4.89	4.90	4.90	4.82	4.64	4.43	4.24	4.09	3.99	
46	3.30	3.46	3.64	3.77	3.84	3.86	3.84	3.80	3.79	3.79	3.78	3.71	3.57	3.40	3.23	3.09	2.99	
48	2.52	2.66	2.81	2.92	2.98	2.99	2.98	2.97	2.96	2.96	2.94	2.88	2.77	2.63	2.48	2.36	2.27	
50	1.93	2.05	2.18	2.28	2.32	2.33	2.33	2.33	2.33	2.33	2.31	2.25	2.17	2.05	1.93	1.81	1.73	
52	1.50	1.59	1.71	1.79	1.82	1.83	1.83	1.84	1.84	1.84	1.82	1.77	1.70	1.61	1.50	1.40	1.34	
54	1.16	1.24	1.34	1.41	1.44	1.44	1.44	1.45	1.46	1.46	1.43	1.39	1.34	1.26	1.17	1.09	1.04	
56	0.91	0.97	1.05	1.11	1.13	1.13	1.13	1.15	1.16	1.15	1.13	1.10	1.05	0.99	0.92	0.85	0.81	
58	7.06	7.57	8.21	8.69	8.88	8.88	8.91	9.03	9.15	9.11	8.90	8.59	8.19	7.70	7.14	6.66	6.34	+21
60	5.51	5.90	6.40	6.79	6.95	6.94	6.96	7.08	7.19	7.15	6.96	6.70	6.37	5.97	5.54	5.17	4.95	
62	4.29	4.58	4.96	5.27	5.40	5.40	5.42	5.52	5.61	5.57	5.41	5.19	4.92	4.60	4.26	4.00	3.84	
64	3.33	3.54	3.82	4.06	4.17	4.17	4.19	4.27	4.34	4.31	4.18	3.99	3.77	3.52	3.26	3.07	2.96	
66	2.57	2.72	2.92	3.10	3.19	3.20	3.23	3.29	3.34	3.31	3.20	3.05	2.87	2.67	2.48	2.34	2.26	
68	1.98	2.08	2.22	2.34	2.42	2.44	2.47	2.52	2.55	2.52	2.44	2.32	2.17	2.02	1.87	1.77	1.72	
70	1.51	1.58	1.67	1.76	1.82	1.85	1.88	1.92	1.93	1.91	1.85	1.75	1.64	1.52	1.41	1.33	1.29	
72	1.15	1.19	1.25	1.31	1.36	1.39	1.43	1.45	1.46	1.44	1.39	1.32	1.23	1.14	1.05	1.00	0.96	
74	0.86	0.89	0.93	0.97	1.00	1.04	1.07	1.09	1.09	1.07	1.04	0.99	0.92	0.85	0.79	0.74	0.72	
76	6.43	6.65	6.88	7.10	7.37	7.70	7.97	8.07	8.03	7.92	7.73	7.38	6.89	6.35	5.88	5.54	5.32	+20
78	4.73	4.88	5.03	5.17	5.37	5.62	5.82	5.87	5.82	5.76	5.67	5.45	5.10	4.72	4.37	4.11	3.92	
80	3.41	3.53	3.63	3.73	3.86	4.03	4.15	4.15	4.11	4.10	4.08	3.96	3.74	3.47	3.22	3.02	2.87	
APRIL																		
18	2.24	2.26	2.33	2.44	2.57	2.68	2.75	2.79	2.80	2.78	2.72	2.63	2.53	2.45	2.39	2.36	2.35	+24
20	1.66	1.67	1.72	1.79	1.87	1.93	1.96	1.97	1.97	1.96	1.93	1.88	1.84	1.79	1.77	1.75	1.75	
22	1.21	1.23	1.27	1.31	1.35	1.38	1.39	1.39	1.39	1.38	1.37	1.35	1.33	1.31	1.30	1.29	1.29	
24	8.73	8.97	9.30	9.62	9.84	9.91	9.91	9.89	9.87	9.83	9.77	9.71	9.65	9.59	9.54	9.52	9.54	+23
26	6.26	6.51	6.81	7.04	7.16	7.18	7.14	7.10	7.07	7.06	7.05	7.03	7.01	6.98	6.98	7.00	7.04	
28	4.47	4.70	4.96	5.15	5.23	5.23	5.19	5.14	5.11	5.11	5.12	5.12	5.10	5.08	5.10	5.14	5.19	
30	3.19	3.39	3.60	3.76	3.83	3.84	3.80	3.75	3.72	3.73	3.75	3.75	3.72	3.70	3.72	3.77	3.82	
32	2.28	2.44	2.61	2.74	2.81	2.82	2.80	2.76	2.73	2.74	2.76	2.75	2.72	2.70	2.72	2.77	2.81	
34	1.63	1.75	1.89	2.00	2.06	2.08	2.07	2.04	2.02	2.03	2.04	2.03	2.00	1.98	1.99	2.03	2.06	
36	1.17	1.26	1.37	1.46	1.52	1.54	1.54	1.52	1.51	1.51	1.52	1.51	1.48	1.46	1.46	1.49	1.51	
38	0.84	0.91	1.00	1.07	1.12	1.15	1.15	1.14	1.13	1.13	1.14	1.13	1.10	1.08	1.08	1.10	1.11	
40	6.14	6.65	7.29	7.89	8.33	8.59	8.65	8.59	8.53	8.54	8.56	8.47	8.29	8.13	8.08	8.12	8.18	+22
42	4.50	4.88	5.38	5.86	6.24	6.46	6.54	6.53	6.49	6.50	6.49	6.43	6.29	6.16	6.09	6.07	6.08	
44	3.33	3.61	4.00	4.40	4.71	4.90	4.99	5.00	4.99	4.98	4.97	4.92	4.82	4.71	4.63	4.58	4.56	
46	2.48	2.70	3.01	3.33	3.59	3.75	3.83	3.86	3.87	3.84	3.79	3.73	3.64	3.56	3.49	3.45	3.45	
48	1.87	2.04	2.29	2.55	2.76	2.89	2.97	3.01	3.02	3.01	2.99	2.95	2.91	2.84	2.76	2.69	2.65	
50	1.42	1.56	1.75	1.96	2.14	2.25	2.32	2.36	2.37	2.36	2.34	2.31	2.28	2.23	2.16	2.09	2.05	
52	1.09	1.19	1.35	1.52	1.67	1.76	1.82	1.86	1.87	1.86	1.84	1.82	1.79	1.76	1.70	1.64	1.60	
54	0.84	0.92	1.05	1.19	1.30	1.38	1.43	1.47	1.48	1.47	1.45	1.43	1.42	1.39	1.34	1.29	1.26	
56	0.65	0.71	0.81	0.93	1.02	1.09	1.13	1.16	1.17	1.16	1.14	1.13	1.12	1.09	1.06	1.02	0.99	
58	5.08	5.54	6.30	7.21	8.00	8.53	8.87	9.13	9.25	9.16	8.98	8.85	8.77	8.60	8.30	7.98	7.77	+21
60	3.96	4.29	4.87	5.59	6.24	6.67	6.95	7.16	7.26	7.18	7.02	6.92	6.86	6.73	6.49	6.23	6.07	
62	3.08	3.31	3.75	4.31	4.83	5.18	5.41	5.58	5.66	5.58	5.45	5.37	5.34	5.24	5.04	4.84	4.71	
64	2.39	2.55	2.87	3.30	3.71	4.00	4.18	4.32	4.38	4.31	4.20	4.15	4.13	4.05	3.89	3.73	3.63	
66	1.84	1.95	2.18	2.51	2.83	3.06	3.21	3.32	3.36	3.30	3.22	3.18	3.17	3.11	2.99	2.86	2.78	
68	1.42	1.49	1.65	1.90	2.15	2.33	2.45	2.53	2.55	2.51	2.46	2.43	2.42	2.37	2.28	2.18	2.12	
70	1.08	1.13	1.25	1.43	1.62	1.77	1.86	1.91	1.92	1.90	1.86	1.85	1.84	1.80	1.73	1.65	1.61	
72	0.82	0.86	0.94	1.07	1.21	1.33	1.40	1.43	1.43	1.42	1.41	1.40	1.39	1.36	1.31	1.25	1.22	
74	0.62	0.65	0.70	0.79	0.90	0.99	1.04	1.06	1.06	1.05	1.05	1.04	1.04	1.02	0.98	0.95	0.92	
76	4.67	4.86	5.25	5.87	6.64	7.34	7.72	7.78	7.73	7.74	7.81	7.85	7.78	7.60	7.37	7.12	6.92	+20
78	3.48	3.62	3.88	4.31	4.86	5.36	5.62	5.62	5.55	5.59	5.70	5.77	5.74	5.63	5.48	5.31	5.16	
80	2.57	2.66	2.84	3.13	3.50	3.84	3.99	3.97	3.91	3.94	4.06	4.16	4.18	4.13	4.03	3.90	3.78	

ZONAL MEAN NUMBER DENSITY (/M CU)

KM LAT =	-80	-70	-60	-50	-40	-30	-20	-10	0	10	20	30	40	50	60	70	80 DEG
MAY																	
18	2.26	2.29	2.33	2.40	2.51	2.64	2.74	2.79	2.80	2.79	2.75	2.68	2.58	2.50	2.45	2.43	2.41
20	1.66	1.69	1.72	1.77	1.83	1.90	1.95	1.97	1.97	1.96	1.94	1.91	1.86	1.83	1.81	1.81	1.80
22	1.18	1.22	1.26	1.30	1.33	1.36	1.38	1.39	1.39	1.38	1.38	1.36	1.35	1.34	1.33	1.33	1.33
24	0.86	0.86	0.91	0.95	0.97	0.93	0.90	0.91	0.89	0.87	0.86	0.84	0.80	0.78	0.79	0.81	0.81
26	0.63	0.61	0.63	0.66	0.70	0.73	0.74	0.72	0.70	0.70	0.71	0.71	0.71	0.71	0.71	0.72	0.72
28	0.39	0.40	0.46	0.50	0.52	0.51	0.51	0.51	0.51	0.51	0.51	0.51	0.52	0.52	0.52	0.52	0.51
30	2.70	3.02	3.40	3.68	3.80	3.82	3.79	3.77	3.76	3.77	3.81	3.82	3.82	3.82	3.84	3.88	3.91
32	1.88	2.12	2.42	2.66	2.78	2.81	2.79	2.77	2.76	2.78	2.81	2.82	2.81	2.81	2.82	2.84	2.89
34	1.33	1.50	1.72	1.92	2.03	2.07	2.07	2.05	2.05	2.06	2.08	2.08	2.08	2.07	2.08	2.11	2.14
36	0.95	1.07	1.23	1.38	1.49	1.53	1.54	1.53	1.53	1.54	1.55	1.55	1.54	1.54	1.55	1.57	1.59
38	0.68	0.77	0.88	1.00	1.09	1.14	1.15	1.15	1.15	1.15	1.16	1.16	1.15	1.15	1.15	1.17	1.19
40	0.46	0.53	0.67	0.78	0.83	0.87	0.84	0.87	0.88	0.87	0.87	0.87	0.86	0.86	0.87	0.88	0.91
42	3.65	4.04	4.64	5.34	5.95	6.35	6.54	6.59	6.60	6.61	6.62	6.61	6.59	6.59	6.62	6.68	6.75
44	2.71	2.98	3.42	3.95	4.45	4.80	4.98	5.04	5.06	5.06	5.06	5.06	5.05	5.06	5.08	5.11	5.15
46	2.03	2.22	2.54	2.95	3.34	3.66	3.82	3.89	3.90	3.90	3.90	3.90	3.91	3.92	3.93	3.95	3.97
48	1.54	1.67	1.91	2.23	2.56	2.81	2.96	3.01	3.03	3.03	3.03	3.04	3.05	3.06	3.07	3.08	3.09
50	1.17	1.27	1.45	1.70	1.96	2.18	2.30	2.35	2.36	2.37	2.37	2.38	2.39	2.41	2.42	2.42	2.42
52	0.90	0.98	1.11	1.30	1.52	1.69	1.80	1.84	1.85	1.86	1.86	1.87	1.89	1.90	1.91	1.91	1.91
54	0.70	0.75	0.86	1.01	1.18	1.32	1.41	1.45	1.46	1.46	1.48	1.49	1.51	1.51	1.51	1.51	1.51
56	0.54	0.58	0.66	0.78	0.92	1.04	1.11	1.14	1.15	1.15	1.15	1.16	1.18	1.19	1.20	1.20	1.20
58	4.22	4.53	5.14	6.03	7.11	8.09	8.74	9.01	9.04	9.02	9.05	9.17	9.31	9.44	9.51	9.54	9.54
60	3.29	3.53	3.98	4.66	5.50	6.30	6.85	7.08	7.10	7.06	7.08	7.18	7.32	7.43	7.51	7.55	7.57
62	2.56	2.74	3.08	3.59	4.24	4.88	5.34	5.54	5.55	5.50	5.51	5.60	5.72	5.82	5.90	5.95	5.98
64	1.98	2.12	2.38	2.76	3.25	3.75	4.14	4.30	4.30	4.26	4.27	4.34	4.44	4.53	4.60	4.66	4.70
66	1.53	1.64	1.83	2.11	2.48	2.87	3.18	3.31	3.31	3.27	3.28	3.34	3.42	3.50	3.57	3.63	3.67
68	1.17	1.26	1.40	1.61	1.88	2.18	2.42	2.52	2.52	2.49	2.51	2.56	2.62	2.68	2.75	2.81	2.85
70	0.89	0.96	1.07	1.22	1.42	1.65	1.83	1.90	1.89	1.88	1.90	1.94	1.99	2.04	2.10	2.16	2.20
72	0.68	0.73	0.82	0.93	1.07	1.24	1.37	1.41	1.41	1.41	1.43	1.47	1.50	1.54	1.59	1.65	1.69
74	0.51	0.56	0.62	0.70	0.81	0.92	1.01	1.04	1.03	1.04	1.07	1.10	1.12	1.15	1.20	1.25	1.28
76	3.82	4.18	4.66	5.25	6.01	6.83	7.37	7.48	7.44	7.57	7.87	8.13	8.30	8.55	8.97	9.40	9.67
78	2.86	3.13	3.48	3.90	4.42	4.97	5.29	5.32	5.30	5.44	5.70	5.92	6.05	6.27	6.64	7.00	7.20
80	2.14	2.35	2.57	2.84	3.18	3.54	3.73	3.73	3.71	3.83	4.04	4.21	4.33	4.53	4.85	5.14	5.28
JUNE																	
18	2.26	2.32	2.36	2.40	2.48	2.60	2.72	2.77	2.78	2.77	2.76	2.71	2.64	2.56	2.49	2.46	2.45
20	1.66	1.70	1.73	1.76	1.81	1.88	1.94	1.96	1.96	1.95	1.94	1.92	1.90	1.86	1.84	1.83	1.82
22	1.14	1.20	1.26	1.29	1.32	1.35	1.38	1.39	1.39	1.38	1.38	1.37	1.36	1.36	1.36	1.36	1.35
24	0.77	0.83	0.90	0.95	0.97	0.98	0.99	1.00	0.99	0.99	0.99	0.99	1.00	1.00	1.00	1.00	1.00
26	0.50	0.56	0.69	0.89	1.11	1.27	1.48	1.71	1.96	2.15	2.38	2.64	2.92	3.22	3.55	3.93	4.33
28	3.41	3.89	4.50	4.99	5.22	5.25	5.22	5.20	5.20	5.21	5.25	5.30	5.34	5.38	5.41	5.45	5.50
30	2.31	2.67	3.16	3.59	3.82	3.86	3.83	3.80	3.81	3.83	3.86	3.89	3.93	3.96	3.99	4.03	4.08
32	1.59	1.85	2.22	2.57	2.79	2.84	2.82	2.80	2.81	2.82	2.85	2.87	2.90	2.92	2.95	2.99	3.03
34	1.11	1.29	1.56	1.84	2.03	2.09	2.08	2.07	2.08	2.09	2.11	2.13	2.15	2.17	2.19	2.22	2.26
36	0.79	0.91	1.11	1.32	1.47	1.54	1.55	1.54	1.55	1.56	1.57	1.59	1.60	1.62	1.64	1.66	1.69
38	0.57	0.66	0.79	0.95	1.07	1.14	1.16	1.16	1.16	1.17	1.18	1.19	1.20	1.22	1.23	1.25	1.28
40	4.15	4.76	5.72	6.83	7.81	8.42	8.67	8.73	8.75	8.78	8.84	8.93	9.05	9.19	9.35	9.53	9.68
42	3.07	3.50	4.18	4.98	5.73	6.27	6.55	6.62	6.63	6.64	6.69	6.77	6.87	7.00	7.15	7.29	7.40
44	2.29	2.61	3.09	3.66	4.25	4.71	4.98	5.06	5.05	5.06	5.10	5.17	5.26	5.38	5.51	5.63	5.69
46	1.73	1.96	2.30	2.73	3.18	3.57	3.81	3.89	3.88	3.88	3.92	3.98	4.06	4.17	4.28	4.37	4.42
48	1.32	1.49	1.74	2.06	2.41	2.73	2.94	3.01	3.00	3.00	3.03	3.09	3.16	3.25	3.35	3.42	3.45
50	1.01	1.14	1.33	1.56	1.84	2.11	2.28	2.34	2.33	2.33	2.36	2.41	2.47	2.55	2.64	2.70	2.72
52	0.78	0.88	1.02	1.20	1.42	1.64	1.78	1.83	1.82	1.82	1.85	1.89	1.94	2.01	2.09	2.14	2.15
54	0.61	0.68	0.79	0.93	1.10	1.28	1.40	1.43	1.42	1.42	1.45	1.49	1.53	1.59	1.66	1.70	1.71
56	0.47	0.53	0.61	0.72	0.86	1.00	1.10	1.13	1.12	1.12	1.14	1.18	1.21	1.26	1.32	1.35	1.36
58	0.37	0.41	0.48	0.56	0.67	0.78	0.86	0.89	0.88	0.88	0.90	0.93	0.96	1.00	1.05	1.08	1.09
60	2.91	3.24	3.72	4.34	5.16	6.08	6.77	6.97	6.89	6.89	7.05	7.28	7.54	7.88	8.29	8.59	8.69
62	2.28	2.54	2.90	3.36	3.98	4.71	5.28	5.45	5.38	5.37	5.50	5.70	5.91	6.20	6.55	6.82	6.92
64	1.78	1.99	2.25	2.59	3.06	3.63	4.09	4.23	4.17	4.16	4.27	4.43	4.60	4.85	5.16	5.40	5.50
66	1.38	1.55	1.75	1.99	2.34	2.78	3.14	3.26	3.21	3.20	3.28	3.41	3.56	3.77	4.04	4.25	4.34
68	1.07	1.20	1.35	1.53	1.78	2.11	2.39	2.48	2.44	2.43	2.50	2.60	2.73	2.91	3.14	3.33	3.41
70	0.82	0.92	1.04	1.17	1.35	1.60	1.80	1.87	1.84	1.83	1.88	1.97	2.07	2.22	2.42	2.58	2.66
72	0.62	0.70	0.79	0.89	1.03	1.20	1.35	1.39	1.37	1.36	1.41	1.47	1.56	1.68	1.85	1.99	2.05
74	0.47	0.53	0.60	0.68	0.78	0.90	0.99	1.02	1.00	1.00	1.04	1.09	1.16	1.26	1.39	1.51	1.57
76	0.35	0.40	0.45	0.51	0.58	0.66	0.72	0.73	0.72	0.73	0.76	0.80	0.85	0.93	1.04	1.14	1.18
78	2.63	2.98	3.39	3.80	4.48	4.81	5.16	5.20	5.14	5.21	5.45	5.73	6.09	6.72	7.60	8.39	8.79
80	1.96	2.22	2.50	2.75	3.05	3.40	3.62	3.64	3.60	3.68	3.87	4.06	4.32	4.78	5.46	6.08	6.38

ZONAL MEAN NUMBER DENSITY (/M CU)

KN LAT =	-80	-70	-60	-50	-40	-30	-20	-10	0	10	20	30	40	50	60	70	80 DEG	
JULY																		
18	2.27	2.31	2.35	2.39	2.48	2.61	2.72	2.79	2.79	2.77	2.75	2.74	2.69	2.61	2.54	2.50	2.49	+24
20	1.63	1.67	1.71	1.75	1.81	1.88	1.95	1.98	1.97	1.95	1.94	1.94	1.93	1.90	1.88	1.86	1.85	
22	1.08	1.15	1.22	1.28	1.32	1.36	1.39	1.40	1.40	1.39	1.38	1.39	1.39	1.39	1.38	1.38	1.37	
24	0.69	0.77	0.86	0.93	0.96	0.98	0.99	1.00	1.00	1.00	1.00	1.01	1.01	1.02	1.02	1.02	1.02	
26	4.50	5.13	5.96	6.69	7.07	7.17	7.19	7.21	7.22	7.22	7.24	7.32	7.42	7.47	7.48	7.50	7.55	+23
28	2.98	3.45	4.15	4.81	5.19	5.27	5.24	5.23	5.25	5.27	5.30	5.36	5.44	5.49	5.51	5.54	5.60	
30	2.02	2.36	2.89	3.45	3.80	3.89	3.84	3.83	3.85	3.87	3.89	3.94	4.01	4.05	4.07	4.10	4.16	
32	1.41	1.65	2.03	2.47	2.78	2.87	2.83	2.82	2.83	2.85	2.87	2.91	2.96	3.00	3.01	3.05	3.10	
34	1.01	1.17	1.44	1.78	2.03	2.12	2.10	2.08	2.09	2.11	2.12	2.15	2.20	2.23	2.24	2.27	2.32	
36	0.73	0.84	1.04	1.28	1.48	1.56	1.56	1.55	1.56	1.57	1.58	1.60	1.63	1.66	1.68	1.70	1.74	
38	0.54	0.62	0.75	0.93	1.08	1.15	1.16	1.16	1.16	1.17	1.18	1.19	1.22	1.25	1.26	1.28	1.31	+22
40	4.00	4.56	5.54	6.81	7.94	8.54	8.68	8.68	8.70	8.75	8.82	8.97	9.20	9.42	9.59	9.75	9.92	
42	3.00	3.41	4.12	5.04	5.87	6.36	6.53	6.55	6.56	6.59	6.65	6.78	6.97	7.17	7.33	7.46	7.57	
44	2.26	2.57	3.10	3.76	4.38	4.78	4.94	4.98	4.98	5.00	5.05	5.16	5.32	5.49	5.64	5.74	5.81	
46	1.71	1.96	2.35	2.84	3.30	3.62	3.78	3.81	3.81	3.82	3.86	3.95	4.09	4.24	4.37	4.46	4.50	
48	1.30	1.50	1.80	2.17	2.52	2.78	2.91	2.94	2.94	2.94	2.97	3.05	3.16	3.30	3.41	3.48	3.51	
50	1.00	1.15	1.39	1.67	1.94	2.15	2.26	2.29	2.28	2.28	2.31	2.37	2.47	2.58	2.68	2.73	2.75	
52	0.78	0.89	1.08	1.30	1.51	1.68	1.77	1.79	1.78	1.78	1.80	1.85	1.93	2.03	2.11	2.16	2.17	
54	0.61	0.70	0.84	1.01	1.18	1.31	1.39	1.40	1.39	1.39	1.41	1.46	1.52	1.60	1.67	1.71	1.72	
56	0.48	0.55	0.65	0.79	0.92	1.03	1.09	1.10	1.09	1.09	1.11	1.15	1.20	1.26	1.32	1.36	1.37	
58	0.38	0.43	0.51	0.61	0.72	0.81	0.86	0.87	0.86	0.86	0.87	0.90	0.94	1.00	1.05	1.08	1.09	
60	2.98	3.37	3.99	4.75	5.57	6.30	6.73	6.82	6.73	6.71	6.83	7.07	7.43	7.86	8.30	8.60	8.72	+21
62	2.35	2.66	3.11	3.67	4.29	4.87	5.24	5.32	5.26	5.23	5.32	5.52	5.81	6.17	6.55	6.83	6.94	
64	1.85	2.08	2.42	2.82	3.28	3.74	4.05	4.13	4.08	4.05	4.12	4.28	4.51	4.82	5.16	5.40	5.51	
66	1.45	1.63	1.87	2.16	2.49	2.84	3.10	3.18	3.14	3.12	3.17	3.29	3.47	3.74	4.03	4.26	4.36	
68	1.12	1.26	1.44	1.64	1.88	2.15	2.35	2.42	2.40	2.38	2.41	2.50	2.65	2.87	3.13	3.34	3.43	
70	0.86	0.97	1.10	1.25	1.42	1.61	1.77	1.83	1.82	1.80	1.82	1.88	2.00	2.18	2.41	2.60	2.69	
72	0.66	0.74	0.84	0.94	1.06	1.20	1.32	1.36	1.36	1.35	1.36	1.40	1.49	1.65	1.84	2.00	2.08	
74	0.49	0.55	0.63	0.71	0.80	0.89	0.97	1.01	1.01	1.00	1.00	1.03	1.10	1.22	1.39	1.53	1.60	
76	0.37	0.41	0.47	0.53	0.59	0.66	0.71	0.73	0.73	0.73	0.73	0.75	0.80	0.90	1.03	1.14	1.20	
78	2.75	3.07	3.47	3.89	4.34	4.79	5.13	5.27	5.27	5.25	5.27	5.40	5.76	6.49	7.49	8.40	8.90	+20
80	2.03	2.28	2.56	2.82	3.10	3.41	3.64	3.72	3.71	3.71	3.76	3.86	4.10	4.61	5.34	6.02	6.41	

AUGUST

18	2.47	2.43	2.39	2.39	2.47	2.62	2.75	2.81	2.81	2.78	2.75	2.72	2.67	2.60	2.53	2.48	2.46	+24
20	1.75	1.75	1.74	1.75	1.80	1.90	1.97	2.00	1.99	1.97	1.95	1.94	1.93	1.90	1.87	1.84	1.83	
22	1.17	1.17	1.23	1.27	1.31	1.36	1.40	1.42	1.41	1.39	1.39	1.40	1.40	1.39	1.37	1.36	1.36	
24	0.69	0.76	0.86	0.92	0.96	0.99	1.00	1.01	1.00	1.00	1.00	1.01	1.02	1.01	1.01	1.01	1.00	
26	4.32	5.04	5.95	6.68	7.05	7.18	7.23	7.24	7.22	7.21	7.26	7.35	7.42	7.44	7.41	7.40	7.42	+23
28	2.83	3.40	4.17	4.84	5.19	5.27	5.26	5.25	5.25	5.26	5.30	5.38	5.44	5.46	5.45	5.46	5.48	
30	1.93	2.35	2.95	3.51	3.82	3.89	3.84	3.83	3.84	3.86	3.89	3.95	4.00	4.03	4.02	4.03	4.05	
32	1.37	1.67	2.11	2.54	2.81	2.87	2.84	2.82	2.82	2.84	2.87	2.91	2.95	2.97	2.98	2.98	3.00	
34	1.00	1.21	1.52	1.85	2.07	2.12	2.10	2.08	2.09	2.10	2.12	2.15	2.18	2.21	2.21	2.22	2.23	
36	0.75	0.89	1.12	1.36	1.52	1.57	1.56	1.54	1.55	1.56	1.57	1.59	1.62	1.64	1.65	1.65	1.66	
38	0.56	0.67	0.83	1.00	1.12	1.16	1.16	1.15	1.15	1.16	1.17	1.19	1.21	1.23	1.24	1.24	1.25	+22
40	4.24	5.03	6.22	7.45	8.31	8.66	8.69	8.63	8.62	8.66	8.76	8.91	9.08	9.24	9.33	9.38	9.40	
42	3.21	3.83	4.71	5.59	6.20	6.48	6.54	6.52	6.50	6.53	6.60	6.72	6.86	7.00	7.09	7.13	7.13	
44	2.44	2.93	3.60	4.23	4.66	4.88	4.96	4.96	4.94	4.95	5.01	5.11	5.22	5.34	5.43	5.46	5.45	
46	1.86	2.25	2.77	3.23	3.54	3.72	3.80	3.81	3.79	3.79	3.84	3.91	4.01	4.11	4.19	4.21	4.19	
48	1.43	1.74	2.14	2.49	2.71	2.85	2.93	2.95	2.93	2.93	2.96	3.02	3.10	3.18	3.25	3.27	3.25	
50	1.11	1.35	1.66	1.93	2.10	2.21	2.28	2.30	2.29	2.28	2.30	2.35	2.41	2.48	2.54	2.55	2.53	
52	0.87	1.06	1.30	1.50	1.63	1.73	1.79	1.81	1.80	1.78	1.79	1.83	1.88	1.94	1.99	2.00	1.98	
54	0.68	0.83	1.01	1.17	1.27	1.35	1.41	1.43	1.42	1.40	1.41	1.43	1.48	1.53	1.57	1.57	1.55	
56	0.54	0.65	0.79	0.91	0.99	1.06	1.11	1.13	1.12	1.10	1.10	1.12	1.16	1.20	1.23	1.24	1.22	
58	4.31	5.15	6.16	7.03	7.69	8.29	8.75	8.90	8.79	8.64	8.64	8.80	9.09	9.44	9.71	9.76	9.65	+21
60	3.43	4.05	4.79	5.42	5.94	6.44	6.85	6.98	6.89	6.78	6.75	6.87	7.10	7.39	7.63	7.69	7.61	
62	2.71	3.17	3.71	4.15	4.55	4.96	5.32	5.44	5.37	5.26	5.25	5.34	5.52	5.75	5.97	6.05	6.00	
64	2.12	2.47	2.85	3.16	3.46	3.79	4.10	4.21	4.15	4.07	4.06	4.13	4.26	4.46	4.65	4.75	4.73	
66	1.65	1.90	2.18	2.39	2.61	2.88	3.13	3.23	3.19	3.13	3.12	3.17	3.26	3.43	3.61	3.71	3.72	
68	1.27	1.46	1.65	1.80	1.96	2.17	2.37	2.46	2.44	2.39	2.39	2.41	2.48	2.62	2.78	2.89	2.91	
70	0.96	1.10	1.25	1.35	1.46	1.62	1.78	1.86	1.85	1.82	1.81	1.82	1.87	1.98	2.13	2.24	2.27	
72	0.73	0.83	0.93	1.01	1.09	1.21	1.33	1.39	1.39	1.38	1.37	1.37	1.40	1.49	1.62	1.72	1.75	
74	0.55	0.62	0.69	0.75	0.81	0.90	0.99	1.03	1.04	1.03	1.02	1.02	1.04	1.11	1.21	1.30	1.34	
76	0.41	0.46	0.51	0.56	0.61	0.67	0.73	0.76	0.77	0.76	0.76	0.75	0.76	0.82	0.90	0.97	1.01	
78	3.04	3.40	3.79	4.11	4.46	4.90	5.31	5.51	5.54	5.54	5.52	5.47	5.55	5.92	6.55	7.13	7.42	+20
80	2.20	2.51	2.81	3.01	3.23	3.53	3.80	3.90	3.90	3.91	3.94	3.93	3.98	4.23	4.67	5.10	5.31	

ZONAL MEAN NUMBER DENSITY (/M CU)

KN LAT =	-80	-70	-60	-50	-40	-30	-20	-10	0	10	20	30	40	50	60	70	80 DEG	
SEPTEMBER																		
18	2.34	2.25	2.21	2.31	2.50	2.66	2.75	2.80	2.81	2.79	2.75	2.70	2.63	2.54	2.45	2.39	2.38	+24
20	1.64	1.61	1.62	1.70	1.82	1.92	1.97	1.98	1.98	1.97	1.96	1.94	1.91	1.87	1.81	1.78	1.77	
22	1.06	1.10	1.16	1.25	1.33	1.38	1.40	1.40	1.40	1.39	1.39	1.39	1.38	1.36	1.33	1.31	1.30	
24	0.68	0.74	0.83	0.91	0.97	1.00	1.00	1.00	1.00	0.99	1.00	1.00	1.01	1.00	0.98	0.96	0.96	+23
26	4.44	5.09	5.95	6.71	7.13	7.24	7.23	7.20	7.17	7.17	7.22	7.29	7.33	7.28	7.18	7.09	7.06	
28	3.01	3.55	4.28	4.91	5.24	5.30	5.25	5.22	5.21	5.22	5.26	5.32	5.36	5.34	5.27	5.21	5.19	
30	2.11	2.52	3.09	3.60	3.86	3.89	3.84	3.82	3.82	3.83	3.85	3.90	3.93	3.92	3.87	3.83	3.82	
32	1.54	1.84	2.25	2.64	2.84	2.86	2.83	2.81	2.81	2.82	2.84	2.87	2.89	2.88	2.85	2.82	2.81	
34	1.15	1.36	1.66	1.94	2.09	2.11	2.09	2.07	2.08	2.09	2.10	2.11	2.13	2.12	2.10	2.08	2.06	
36	0.87	1.02	1.23	1.43	1.54	1.57	1.55	1.54	1.54	1.55	1.56	1.57	1.57	1.57	1.55	1.53	1.52	
38	0.67	0.77	0.92	1.06	1.14	1.16	1.16	1.15	1.15	1.16	1.17	1.17	1.17	1.17	1.15	1.13	1.12	
40	5.15	5.93	6.96	7.89	8.45	8.67	8.70	8.66	8.65	8.66	8.70	8.74	8.75	8.71	8.60	8.43	8.27	+22
42	3.98	4.56	5.30	5.93	6.32	6.51	6.58	6.57	6.54	6.55	6.57	6.59	6.59	6.56	6.46	6.31	6.15	
44	3.09	3.53	4.07	4.50	4.77	4.93	5.01	5.02	5.00	4.99	5.00	5.01	5.00	4.97	4.89	4.75	4.60	
46	2.40	2.74	3.14	3.44	3.63	3.77	3.85	3.87	3.85	3.84	3.84	3.84	3.83	3.80	3.73	3.61	3.47	
48	1.87	2.14	2.43	2.65	2.79	2.91	2.99	3.01	3.00	2.98	2.97	2.97	2.96	2.93	2.87	2.76	2.63	
50	1.47	1.67	1.89	2.05	2.16	2.26	2.33	2.36	2.35	2.33	2.32	2.31	2.30	2.28	2.22	2.12	2.01	
52	1.16	1.31	1.48	1.60	1.68	1.76	1.83	1.86	1.85	1.83	1.82	1.81	1.80	1.78	1.73	1.64	1.55	
54	0.92	1.03	1.15	1.24	1.31	1.38	1.44	1.47	1.46	1.44	1.43	1.42	1.41	1.40	1.35	1.28	1.20	
56	0.73	0.81	0.90	0.97	1.03	1.09	1.14	1.16	1.16	1.14	1.12	1.11	1.11	1.10	1.06	1.00	0.93	
58	5.81	6.35	6.97	7.50	7.98	8.49	8.95	9.16	9.11	8.95	8.80	8.72	8.68	8.57	8.27	7.77	7.26	+21
60	4.60	4.97	5.40	5.78	6.18	6.61	7.00	7.18	7.14	7.00	6.87	6.81	6.77	6.68	6.44	6.05	5.66	
62	3.62	3.87	4.16	4.44	4.75	5.11	5.44	5.59	5.55	5.44	5.34	5.29	5.25	5.18	4.99	4.70	4.41	
64	2.83	3.00	3.19	3.38	3.63	3.93	4.19	4.31	4.29	4.20	4.12	4.08	4.05	3.98	3.84	3.63	3.42	
66	2.19	2.30	2.43	2.57	2.75	2.99	3.21	3.30	3.28	3.22	3.16	3.13	3.09	3.04	2.94	2.79	2.65	
68	1.68	1.76	1.84	1.94	2.08	2.27	2.44	2.51	2.50	2.45	2.42	2.38	2.35	2.30	2.23	2.13	2.04	
70	1.28	1.33	1.39	1.46	1.57	1.71	1.84	1.89	1.89	1.86	1.84	1.80	1.76	1.73	1.68	1.62	1.56	
72	0.96	1.00	1.04	1.09	1.18	1.29	1.38	1.42	1.42	1.41	1.39	1.36	1.32	1.29	1.26	1.22	1.18	
74	0.72	0.75	0.78	0.82	0.88	0.96	1.03	1.05	1.06	1.05	1.04	1.01	0.98	0.95	0.94	0.92	0.89	
76	5.40	5.57	5.80	6.13	6.61	7.16	7.57	7.74	7.78	7.81	7.74	7.50	7.19	6.99	6.90	6.79	6.63	+20
78	3.99	4.13	4.31	4.55	4.89	5.27	5.52	5.60	5.62	5.67	5.65	5.48	5.23	5.09	5.04	4.97	4.85	
80	2.91	3.06	3.20	3.35	3.56	3.80	3.95	3.96	3.94	4.00	4.03	3.93	3.76	3.65	3.63	3.59	3.49	

OCTOBER

18	2.29	2.26	2.28	2.39	2.55	2.68	2.75	2.78	2.79	2.78	2.75	2.68	2.59	2.48	2.38	2.31	2.28	+24
20	1.64	1.64	1.68	1.76	1.85	1.92	1.95	1.96	1.97	1.97	1.96	1.93	1.88	1.82	1.75	1.71	1.69	
22	1.13	1.17	1.22	1.29	1.35	1.38	1.39	1.39	1.39	1.39	1.39	1.38	1.36	1.33	1.29	1.26	1.24	
24	7.67	8.21	8.90	9.51	9.86	9.96	9.93	9.89	9.88	9.90	9.93	9.94	9.87	9.70	9.46	9.25	9.12	+23
26	5.27	5.80	6.46	6.98	7.22	7.23	7.17	7.12	7.10	7.12	7.16	7.19	7.18	7.09	6.93	6.78	6.68	
28	3.68	4.14	4.70	5.12	5.29	5.28	5.22	5.17	5.15	5.17	5.20	5.24	5.24	5.18	5.07	4.96	4.87	
30	2.63	3.00	3.43	3.75	3.87	3.87	3.82	3.78	3.77	3.78	3.81	3.84	3.83	3.78	3.70	3.61	3.54	
32	1.92	2.20	2.52	2.75	2.84	2.84	2.82	2.79	2.77	2.79	2.81	2.82	2.80	2.76	2.70	2.62	2.55	
34	1.43	1.63	1.86	2.02	2.08	2.10	2.08	2.06	2.05	2.06	2.08	2.08	2.06	2.02	1.97	1.90	1.84	
36	1.09	1.22	1.38	1.49	1.54	1.55	1.55	1.54	1.53	1.54	1.55	1.54	1.51	1.48	1.43	1.38	1.32	
38	0.83	0.93	1.03	1.10	1.14	1.15	1.16	1.15	1.15	1.15	1.16	1.15	1.12	1.09	1.05	1.00	0.95	
40	6.46	7.13	7.81	8.25	8.48	8.64	8.71	8.68	8.65	8.68	8.69	8.56	8.33	8.05	7.71	7.26	6.82	+22
42	5.04	5.50	5.95	6.22	6.38	6.52	6.60	6.60	6.58	6.59	6.57	6.45	6.24	6.00	5.71	5.31	4.93	
44	3.96	4.28	4.57	4.74	4.85	4.96	5.05	5.06	5.04	5.04	5.01	4.89	4.71	4.51	4.26	3.92	3.60	
46	3.13	3.35	3.54	3.64	3.72	3.81	3.89	3.91	3.90	3.89	3.85	3.74	3.59	3.42	3.21	2.92	2.65	
48	2.47	2.63	2.76	2.83	2.88	2.96	3.02	3.05	3.04	3.02	2.98	2.88	2.76	2.62	2.44	2.19	1.97	
50	1.96	2.07	2.16	2.21	2.25	2.31	2.37	2.39	2.38	2.36	2.32	2.24	2.14	2.02	1.87	1.67	1.49	
52	1.56	1.64	1.70	1.73	1.76	1.81	1.86	1.88	1.88	1.86	1.82	1.75	1.67	1.57	1.44	1.28	1.13	
54	1.24	1.29	1.33	1.36	1.38	1.43	1.47	1.49	1.48	1.47	1.43	1.38	1.31	1.23	1.12	0.98	0.87	
56	0.98	1.02	1.05	1.07	1.09	1.12	1.16	1.17	1.17	1.16	1.13	1.08	1.03	0.96	0.87	0.76	0.68	
58	7.77	8.00	8.20	8.34	8.53	8.81	9.08	9.23	9.24	9.12	8.87	8.51	8.04	7.47	6.73	5.91	5.25	+21
60	6.12	6.26	6.39	6.50	6.65	6.88	7.10	7.23	7.24	7.15	6.95	6.65	6.27	5.80	5.21	4.58	4.09	
62	4.79	4.88	4.96	5.03	5.16	5.34	5.52	5.63	5.64	5.57	5.41	5.17	4.86	4.48	4.02	3.54	3.18	
64	3.73	3.78	3.82	3.88	3.97	4.12	4.26	4.35	4.36	4.30	4.18	3.99	3.74	3.43	3.08	2.73	2.46	
66	2.88	2.91	2.93	2.97	3.04	3.16	3.27	3.33	3.34	3.30	3.21	3.06	2.86	2.61	2.34	2.09	1.90	
68	2.22	2.23	2.24	2.26	2.32	2.41	2.49	2.53	2.53	2.51	2.44	2.33	2.16	1.97	1.77	1.59	1.46	
70	1.69	1.70	1.70	1.72	1.76	1.83	1.89	1.91	1.91	1.89	1.85	1.76	1.63	1.48	1.34	1.21	1.12	
72	1.28	1.29	1.29	1.30	1.33	1.39	1.42	1.43	1.42	1.41	1.39	1.32	1.22	1.10	1.00	0.91	0.85	
74	0.97	0.97	0.97	0.98	1.00	1.04	1.06	1.06	1.05	1.05	1.04	0.99	0.90	0.82	0.75	0.69	0.64	
76	7.28	7.33	7.31	7.33	7.52	7.78	7.87	7.74	7.64	7.68	7.66	7.29	6.65	6.03	5.55	5.14	4.81	+20
78	5.44	5.48	5.45	5.44	5.55	5.72	5.73	5.58	5.48	5.55	5.57	5.32	4.86	4.42	4.09	3.81	3.57	
80	4.03	4.06	4.03	3.99	4.02	4.10	4.07	3.93	3.86	3.92	3.97	3.82	3.50	3.20	2.98	2.78	2.60	

ZONAL MEAN NUMBER DENSITY (/CM CU)

KN LAT =	-80	-70	-60	-50	-40	-30	-20	-10	0	10	20	30	40	50	60	70	80 DEG	
NOVEMBER																		
18	2.16	2.25	2.38	2.54	2.69	2.81	2.85	2.85	2.83	2.83	2.79	2.70	2.57	2.45	2.38	2.33	2.29	+24
20	1.60	1.67	1.76	1.85	1.94	1.99	2.00	1.99	1.99	1.99	1.98	1.94	1.87	1.80	1.75	1.72	1.69	
22	1.17	1.22	1.29	1.35	1.39	1.41	1.41	1.40	1.40	1.40	1.40	1.38	1.35	1.31	1.28	1.26	1.24	
24	0.86	0.90	0.94	0.98	1.00	1.01	1.00	1.00	0.99	0.99	1.00	0.99	0.98	0.96	0.93	0.91	0.89	
26	6.31	6.57	6.89	7.14	7.25	7.24	7.18	7.12	7.09	7.10	7.12	7.13	7.08	6.95	6.76	6.54	6.41	+23
28	4.65	4.84	5.04	5.19	5.25	5.23	5.18	5.14	5.11	5.11	5.14	5.16	5.14	5.04	4.89	4.71	4.56	
30	3.45	3.58	3.71	3.79	3.81	3.80	3.77	3.74	3.71	3.72	3.74	3.75	3.73	3.65	3.52	3.36	3.22	
32	2.58	2.66	2.74	2.78	2.78	2.78	2.76	2.74	2.72	2.73	2.74	2.74	2.71	2.64	2.53	2.39	2.27	
34	1.94	1.99	2.04	2.05	2.05	2.04	2.04	2.03	2.01	2.02	2.02	2.01	1.98	1.91	1.82	1.70	1.60	
36	1.47	1.50	1.53	1.52	1.51	1.52	1.51	1.50	1.50	1.50	1.50	1.49	1.45	1.39	1.31	1.21	1.13	
38	1.12	1.14	1.15	1.14	1.13	1.13	1.13	1.13	1.13	1.13	1.12	1.10	1.06	1.01	0.94	0.87	0.80	
40	8.57	8.74	8.77	8.65	8.54	8.53	8.56	8.55	8.53	8.53	8.46	8.23	7.85	7.39	6.85	6.24	5.72	+22
42	6.61	6.73	6.73	6.61	6.51	6.49	6.51	6.51	6.50	6.50	6.42	6.19	5.85	5.46	5.01	4.53	4.13	
44	5.14	5.22	5.21	5.10	5.00	4.98	5.00	5.00	4.99	4.98	4.90	4.70	4.40	4.07	3.71	3.33	3.03	
46	4.02	4.08	4.06	3.97	3.89	3.86	3.87	3.86	3.86	3.85	3.78	3.60	3.34	3.06	2.77	2.48	2.25	
48	3.16	3.20	3.18	3.11	3.04	3.01	3.01	3.01	3.00	2.99	2.93	2.78	2.56	2.33	2.09	1.87	1.69	
50	2.50	2.53	2.51	2.45	2.39	2.37	2.36	2.35	2.35	2.34	2.28	2.16	1.98	1.79	1.60	1.42	1.29	
52	1.98	2.00	1.99	1.94	1.89	1.87	1.86	1.85	1.84	1.83	1.79	1.69	1.54	1.38	1.23	1.09	0.99	
54	1.58	1.59	1.58	1.54	1.50	1.48	1.46	1.45	1.45	1.44	1.41	1.32	1.20	1.07	0.95	0.85	0.77	
56	1.25	1.26	1.25	1.22	1.19	1.17	1.15	1.14	1.14	1.13	1.11	1.04	0.94	0.84	0.74	0.66	0.60	
58	1.00	1.00	0.99	0.96	0.94	0.92	0.91	0.90	0.89	0.89	0.87	0.81	0.73	0.65	0.58	0.51	0.47	
60	7.94	7.94	7.84	7.60	7.38	7.22	7.12	7.04	7.01	6.99	6.79	6.32	5.68	5.03	4.47	4.00	3.67	+21
62	6.29	6.28	6.16	5.96	5.77	5.64	5.55	5.49	5.47	5.45	5.29	4.90	4.38	3.88	3.45	3.10	2.85	
64	4.96	4.93	4.81	4.64	4.49	4.38	4.30	4.25	4.24	4.23	4.09	3.78	3.36	2.97	2.65	2.39	2.21	
66	3.88	3.84	3.73	3.59	3.47	3.38	3.31	3.27	3.27	3.26	3.15	2.89	2.56	2.26	2.03	1.83	1.69	
68	3.02	2.97	2.87	2.75	2.66	2.59	2.53	2.50	2.49	2.49	2.40	2.20	1.94	1.72	1.54	1.40	1.29	
70	2.33	2.28	2.20	2.10	2.02	1.97	1.93	1.89	1.88	1.88	1.81	1.66	1.46	1.29	1.17	1.06	0.98	
72	1.79	1.74	1.67	1.58	1.53	1.49	1.45	1.42	1.40	1.40	1.36	1.24	1.10	0.97	0.88	0.80	0.74	
74	1.36	1.32	1.25	1.19	1.14	1.12	1.08	1.05	1.03	1.04	1.01	0.93	0.82	0.73	0.66	0.60	0.56	
76	1.02	0.99	0.94	0.88	0.85	0.83	0.80	0.77	0.75	0.75	0.74	0.69	0.61	0.54	0.49	0.45	0.42	
78	7.64	7.40	6.94	6.48	6.19	6.03	5.80	5.52	5.38	5.41	5.36	5.01	4.47	4.02	3.68	3.36	3.08	+20
80	5.64	5.46	5.10	4.71	4.45	4.30	4.12	3.90	3.79	3.82	3.81	3.59	3.24	2.93	2.70	2.47	2.27	
DECEMBER																		
18	2.28	2.32	2.41	2.54	2.70	2.83	2.88	2.87	2.84	2.83	2.80	2.69	2.55	2.43	2.35	2.32	2.31	+24
20	1.70	1.72	1.77	1.85	1.93	1.99	2.01	2.00	1.99	2.00	1.98	1.93	1.85	1.78	1.73	1.70	1.69	
22	1.26	1.28	1.30	1.34	1.39	1.41	1.41	1.41	1.40	1.41	1.40	1.38	1.33	1.29	1.25	1.23	1.21	
24	0.93	0.94	0.96	0.98	1.00	1.01	1.00	1.00	1.00	1.00	1.00	0.98	0.96	0.94	0.91	0.88	0.85	
26	6.94	6.98	7.05	7.13	7.20	7.22	7.19	7.14	7.12	7.11	7.10	7.05	6.96	6.80	6.56	6.24	5.95	+23
28	5.17	5.18	5.19	5.21	5.22	5.22	5.19	5.15	5.12	5.11	5.10	5.09	5.05	4.95	4.73	4.42	4.14	
30	3.86	3.85	3.84	3.82	3.81	3.79	3.77	3.74	3.72	3.70	3.70	3.69	3.68	3.60	3.41	3.13	2.88	
32	2.90	2.88	2.85	2.82	2.80	2.78	2.76	2.74	2.72	2.71	2.70	2.70	2.68	2.62	2.45	2.22	2.01	
34	2.18	2.16	2.13	2.10	2.07	2.05	2.03	2.02	2.01	2.00	1.99	1.98	1.96	1.90	1.77	1.58	1.41	
36	1.65	1.63	1.60	1.57	1.54	1.53	1.51	1.50	1.49	1.49	1.48	1.47	1.44	1.39	1.27	1.13	1.00	
38	1.26	1.24	1.22	1.19	1.16	1.14	1.13	1.12	1.12	1.11	1.11	1.09	1.06	1.01	0.92	0.81	0.72	
40	9.61	9.50	9.29	9.03	8.82	8.66	8.55	8.48	8.44	8.41	8.34	8.18	7.89	7.41	6.69	5.85	5.18	+22
42	7.40	7.32	7.15	6.94	6.75	6.61	6.51	6.44	6.41	6.40	6.34	6.18	5.90	5.47	4.89	4.27	3.80	
44	5.74	5.68	5.54	5.37	5.21	5.08	4.99	4.93	4.90	4.90	4.85	4.71	4.45	4.07	3.61	3.15	2.81	
46	4.48	4.43	4.33	4.18	4.05	3.94	3.85	3.79	3.77	3.77	3.74	3.62	3.38	3.06	2.69	2.35	2.10	
48	3.52	3.48	3.40	3.28	3.16	3.07	2.99	2.94	2.92	2.92	2.90	2.80	2.60	2.32	2.02	1.77	1.59	
50	2.78	2.75	2.68	2.59	2.49	2.41	2.34	2.29	2.27	2.27	2.26	2.18	2.01	1.78	1.54	1.34	1.21	
52	2.21	2.18	2.13	2.05	1.96	1.89	1.83	1.79	1.77	1.77	1.77	1.71	1.56	1.37	1.18	1.03	0.93	
54	1.76	1.74	1.69	1.62	1.55	1.49	1.44	1.40	1.38	1.39	1.39	1.34	1.22	1.06	0.91	0.79	0.72	
56	1.40	1.39	1.35	1.29	1.23	1.18	1.14	1.10	1.08	1.09	1.09	1.05	0.95	0.82	0.70	0.61	0.56	
58	1.12	1.11	1.07	1.02	0.98	0.93	0.89	0.86	0.85	0.86	0.86	0.82	0.74	0.64	0.54	0.48	0.43	
60	9.00	8.85	8.53	8.11	7.71	7.36	7.04	6.78	6.68	6.72	6.70	6.37	5.70	4.91	4.22	3.69	3.37	+21
62	7.19	7.05	6.76	6.40	6.06	5.78	5.52	5.31	5.24	5.27	5.23	4.93	4.38	3.77	3.25	2.86	2.62	
64	5.73	5.59	5.33	5.02	4.74	4.51	4.30	4.14	4.09	4.12	4.06	3.79	3.34	2.88	2.50	2.22	2.03	
66	4.54	4.41	4.18	3.91	3.68	3.50	3.33	3.21	3.18	3.20	3.14	2.89	2.53	2.18	1.91	1.71	1.57	
68	3.57	3.46	3.26	3.03	2.84	2.69	2.56	2.47	2.45	2.47	2.41	2.20	1.91	1.65	1.45	1.31	1.21	
70	2.79	2.69	2.51	2.32	2.16	2.04	1.95	1.88	1.87	1.88	1.83	1.66	1.43	1.24	1.10	1.00	0.92	
72	2.16	2.07	1.92	1.76	1.63	1.54	1.46	1.41	1.41	1.42	1.38	1.24	1.07	0.93	0.83	0.76	0.70	
74	1.65	1.57	1.45	1.31	1.21	1.14	1.09	1.05	1.05	1.06	1.02	0.92	0.80	0.70	0.63	0.57	0.52	
76	1.24	1.18	1.08	0.97	0.89	0.84	0.80	0.77	0.76	0.77	0.75	0.68	0.59	0.52	0.47	0.43	0.39	
78	9.24	8.77	7.95	7.08	6.44	6.06	5.77	5.55	5.50	5.55	5.44	4.97	4.36	3.86	3.51	3.20	2.93	+20
80	6.75	6.39	5.76	5.08	4.61	4.33	4.12	3.95	3.88	3.92	3.85	3.56	3.15	2.82	2.58	2.37	2.18	

ZONAL MEAN PRESSURE SCALE HT (KM)

KM LAT = -80 -70 -60 -50 -40 -30 -20 -10 0 10 20 30 40 50 60 70 80 DEG

JANUARY

18	6.83	6.80	6.69	6.49	6.25	6.07	5.98	5.96	5.96	5.98	6.04	6.18	6.32	6.37	6.27	6.07	5.90
20	6.85	6.82	6.72	6.56	6.37	6.23	6.14	6.10	6.07	6.06	6.10	6.21	6.34	6.37	6.24	6.00	5.79
22	6.90	6.87	6.79	6.64	6.49	6.36	6.29	6.24	6.21	6.19	6.23	6.32	6.42	6.43	6.28	6.03	5.81
24	6.98	6.95	6.88	6.75	6.61	6.50	6.42	6.38	6.36	6.35	6.37	6.44	6.51	6.50	6.36	6.13	5.93
26	7.08	7.05	6.98	6.87	6.74	6.63	6.56	6.52	6.51	6.51	6.53	6.58	6.60	6.57	6.45	6.27	6.09
28	7.19	7.17	7.11	7.00	6.88	6.77	6.70	6.66	6.66	6.66	6.67	6.68	6.68	6.65	6.56	6.42	6.29
30	7.31	7.30	7.25	7.15	7.03	6.92	6.84	6.81	6.81	6.82	6.82	6.79	6.76	6.73	6.67	6.58	6.49
32	7.45	7.44	7.40	7.30	7.18	7.07	7.00	6.96	6.96	6.97	6.96	6.91	6.86	6.82	6.78	6.74	6.68
34	7.59	7.59	7.55	7.46	7.34	7.24	7.16	7.12	7.12	7.13	7.11	7.04	6.97	6.92	6.90	6.88	6.85
36	7.75	7.75	7.71	7.62	7.51	7.40	7.32	7.27	7.27	7.28	7.26	7.19	7.10	7.04	7.03	7.02	7.00
38	7.91	7.91	7.87	7.77	7.66	7.56	7.47	7.43	7.42	7.44	7.42	7.34	7.24	7.18	7.15	7.14	7.12
40	8.07	8.06	8.01	7.92	7.81	7.71	7.62	7.58	7.57	7.59	7.57	7.50	7.39	7.31	7.27	7.24	7.22
42	8.21	8.20	8.14	8.05	7.94	7.84	7.76	7.71	7.71	7.73	7.72	7.65	7.54	7.44	7.37	7.33	7.31
44	8.34	8.32	8.25	8.15	8.04	7.95	7.87	7.83	7.83	7.85	7.85	7.77	7.66	7.54	7.46	7.41	7.38
46	8.44	8.41	8.33	8.22	8.11	8.02	7.96	7.93	7.93	7.95	7.94	7.86	7.73	7.60	7.51	7.47	7.45
48	8.51	8.46	8.37	8.25	8.14	8.06	8.01	7.99	8.00	8.01	8.00	7.90	7.76	7.62	7.53	7.51	7.51
50	8.53	8.47	8.37	8.24	8.13	8.06	8.02	8.02	8.03	8.04	8.00	7.89	7.73	7.59	7.53	7.53	7.54
52	8.52	8.45	8.32	8.18	8.07	8.01	8.00	8.01	8.02	8.02	7.96	7.82	7.65	7.52	7.48	7.53	7.60
54	8.46	8.38	8.24	8.09	7.98	7.92	7.93	7.95	7.98	7.96	7.87	7.71	7.52	7.41	7.41	7.50	7.62
56	8.36	8.27	8.12	7.96	7.84	7.79	7.82	7.86	7.89	7.87	7.75	7.56	7.37	7.28	7.31	7.45	7.60
58	8.22	8.12	7.97	7.79	7.67	7.63	7.67	7.73	7.77	7.73	7.60	7.40	7.22	7.14	7.21	7.38	7.56
60	8.04	7.95	7.78	7.60	7.47	7.44	7.49	7.57	7.62	7.57	7.43	7.23	7.07	7.01	7.10	7.28	7.47
62	7.84	7.74	7.57	7.38	7.25	7.23	7.30	7.39	7.43	7.39	7.25	7.08	6.93	6.90	6.99	7.17	7.35
64	7.61	7.51	7.34	7.15	7.03	7.01	7.09	7.18	7.23	7.19	7.08	6.93	6.82	6.80	6.90	7.06	7.21
66	7.35	7.26	7.10	6.91	6.80	6.80	6.88	6.97	7.01	6.98	6.90	6.80	6.73	6.73	6.82	6.95	7.06
68	7.07	6.99	6.84	6.67	6.58	6.59	6.67	6.75	6.78	6.77	6.73	6.68	6.66	6.68	6.75	6.84	6.92
70	6.76	6.69	6.56	6.43	6.37	6.40	6.48	6.54	6.56	6.56	6.56	6.57	6.59	6.64	6.70	6.76	6.80
72	6.43	6.38	6.28	6.20	6.18	6.23	6.30	6.34	6.34	6.35	6.39	6.45	6.52	6.59	6.66	6.70	6.71
74	6.08	6.05	6.00	5.97	6.00	6.09	6.15	6.16	6.15	6.16	6.23	6.32	6.43	6.53	6.62	6.66	6.66
76	5.73	5.71	5.70	5.74	5.84	5.97	6.04	6.02	5.99	6.00	6.08	6.20	6.33	6.47	6.59	6.65	6.65
78	5.39	5.38	5.41	5.52	5.64	5.87	5.96	5.94	5.90	5.91	5.99	6.11	6.25	6.42	6.57	6.65	6.64
80	5.06	5.06	5.13	5.30	5.55	5.80	5.93	5.94	5.91	5.92	5.98	6.10	6.26	6.44	6.58	6.62	6.58

FEBRUARY

18	6.74	6.71	6.61	6.46	6.28	6.11	6.00	5.94	5.92	5.94	6.01	6.15	6.31	6.41	6.39	6.28	6.17
20	6.74	6.70	6.62	6.50	6.35	6.22	6.12	6.05	6.01	6.00	6.05	6.17	6.32	6.41	6.37	6.21	6.05
22	6.77	6.74	6.68	6.57	6.45	6.34	6.26	6.20	6.16	6.15	6.18	6.27	6.38	6.44	6.39	6.25	6.09
24	6.83	6.81	6.76	6.66	6.56	6.47	6.41	6.36	6.33	6.32	6.35	6.40	6.45	6.47	6.43	6.33	6.21
26	6.90	6.90	6.86	6.77	6.68	6.61	6.56	6.52	6.50	6.51	6.53	6.53	6.53	6.51	6.48	6.42	6.36
28	6.99	7.01	6.97	6.89	6.81	6.76	6.72	6.68	6.67	6.69	6.70	6.67	6.61	6.56	6.54	6.52	6.49
30	7.11	7.13	7.09	7.02	6.95	6.91	6.87	6.84	6.84	6.86	6.86	6.80	6.71	6.63	6.61	6.61	6.60
32	7.23	7.25	7.23	7.16	7.10	7.06	7.03	7.01	7.00	7.03	7.03	6.94	6.82	6.73	6.69	6.69	6.68
34	7.37	7.39	7.37	7.31	7.26	7.22	7.20	7.17	7.18	7.20	7.19	7.10	6.96	6.84	6.79	6.77	6.75
36	7.52	7.54	7.52	7.47	7.42	7.38	7.36	7.35	7.35	7.37	7.35	7.26	7.11	6.98	6.90	6.85	6.81
38	7.67	7.68	7.67	7.63	7.58	7.54	7.52	7.52	7.54	7.55	7.52	7.42	7.28	7.13	7.02	6.93	6.88
40	7.82	7.83	7.82	7.78	7.73	7.69	7.67	7.69	7.71	7.72	7.69	7.59	7.45	7.29	7.14	7.03	6.96
42	7.95	7.95	7.95	7.91	7.86	7.81	7.81	7.84	7.88	7.89	7.84	7.74	7.60	7.43	7.26	7.13	7.05
44	8.07	8.06	8.05	8.02	7.96	7.91	7.92	7.97	8.02	8.02	7.97	7.87	7.72	7.54	7.37	7.24	7.18
46	8.16	8.15	8.13	8.09	8.03	7.98	7.99	8.05	8.12	8.12	8.06	7.95	7.80	7.62	7.46	7.35	7.32
48	8.21	8.20	8.17	8.12	8.06	8.01	8.02	8.10	8.16	8.17	8.09	7.97	7.82	7.65	7.52	7.46	7.47
50	8.24	8.21	8.17	8.11	8.04	7.99	8.01	8.09	8.16	8.16	8.08	7.94	7.78	7.63	7.55	7.56	7.62
52	8.23	8.18	8.12	8.04	7.97	7.94	7.96	8.03	8.09	8.09	8.00	7.86	7.69	7.57	7.54	7.63	7.76
54	8.18	8.12	8.03	7.93	7.86	7.84	7.87	7.94	7.98	7.97	7.88	7.73	7.56	7.46	7.50	7.66	7.86
56	8.10	8.02	7.90	7.78	7.71	7.71	7.75	7.80	7.83	7.82	7.73	7.57	7.41	7.34	7.43	7.66	7.91
58	7.98	7.89	7.74	7.60	7.54	7.56	7.61	7.65	7.66	7.64	7.55	7.40	7.25	7.21	7.34	7.61	7.89
60	7.84	7.73	7.56	7.41	7.35	7.38	7.45	7.48	7.48	7.44	7.36	7.22	7.10	7.09	7.24	7.53	7.82
62	7.66	7.54	7.36	7.20	7.15	7.20	7.27	7.30	7.28	7.25	7.17	7.06	6.96	6.97	7.14	7.42	7.68
64	7.45	7.33	7.15	7.00	6.95	7.01	7.09	7.12	7.09	7.05	7.00	6.92	6.85	6.88	7.04	7.28	7.50
66	7.22	7.10	6.93	6.79	6.75	6.82	6.90	6.93	6.90	6.87	6.84	6.79	6.76	6.80	6.94	7.14	7.31
68	6.95	6.85	6.70	6.58	6.56	6.64	6.72	6.74	6.72	6.69	6.69	6.68	6.68	6.74	6.86	7.00	7.11
70	6.66	6.59	6.47	6.39	6.39	6.46	6.53	6.54	6.52	6.52	6.54	6.57	6.61	6.68	6.79	6.88	6.94
72	6.36	6.31	6.23	6.19	6.22	6.29	6.35	6.34	6.33	6.35	6.40	6.46	6.53	6.62	6.72	6.78	6.80
74	6.05	6.02	5.99	6.00	6.07	6.14	6.17	6.15	6.14	6.19	6.26	6.34	6.43	6.54	6.66	6.71	6.78
76	5.75	5.74	5.75	5.82	5.92	6.01	6.02	5.98	5.98	6.04	6.13	6.22	6.32	6.46	6.60	6.66	6.63
78	5.49	5.48	5.52	5.64	5.80	5.91	5.92	5.87	5.87	5.94	6.03	6.11	6.22	6.38	6.55	6.62	6.58
80	5.28	5.26	5.32	5.48	5.69	5.85	5.89	5.88	5.89	5.94	6.00	6.07	6.19	6.37	6.53	6.56	6.49

ZONAL MEAN PRESSURE SCALE HT (KM)

KM LAT = -80 -70 -60 -50 -40 -30 -20 -10 0 10 20 30 40 50 60 70 80 DEG

MARCH

18	6.58	6.58	6.54	6.44	6.30	6.16	6.04	5.97	5.94	5.98	6.07	6.19	6.31	6.41	6.45	6.46	6.46
20	6.54	6.54	6.52	6.43	6.34	6.23	6.14	6.08	6.05	6.07	6.13	6.23	6.33	6.40	6.42	6.41	6.39
22	6.52	6.55	6.54	6.49	6.41	6.34	6.29	6.24	6.21	6.22	6.26	6.32	6.37	6.40	6.41	6.42	6.43
24	6.54	6.57	6.58	6.54	6.50	6.47	6.44	6.41	6.38	6.39	6.42	6.44	6.43	6.42	6.42	6.46	6.50
26	6.56	6.61	6.63	6.62	6.60	6.59	6.59	6.57	6.55	6.56	6.58	6.56	6.51	6.46	6.45	6.49	6.55
28	6.61	6.66	6.70	6.70	6.70	6.72	6.73	6.73	6.72	6.73	6.73	6.69	6.61	6.52	6.50	6.54	6.60
30	6.67	6.73	6.78	6.80	6.82	6.85	6.88	6.88	6.88	6.89	6.88	6.83	6.72	6.62	6.57	6.59	6.63
32	6.75	6.82	6.88	6.93	6.96	6.99	7.02	7.04	7.05	7.05	7.03	6.97	6.87	6.75	6.68	6.66	6.68
34	6.85	6.92	7.00	7.07	7.11	7.14	7.18	7.21	7.22	7.22	7.19	7.13	7.03	6.91	6.81	6.76	6.73
36	6.97	7.05	7.15	7.22	7.27	7.30	7.34	7.38	7.41	7.40	7.36	7.29	7.21	7.09	6.97	6.88	6.82
38	7.11	7.19	7.30	7.39	7.43	7.46	7.50	7.56	7.60	7.58	7.53	7.46	7.39	7.29	7.15	7.02	6.93
40	7.26	7.34	7.46	7.55	7.60	7.61	7.66	7.74	7.79	7.76	7.69	7.63	7.57	7.48	7.33	7.18	7.07
42	7.40	7.49	7.61	7.71	7.75	7.76	7.81	7.90	7.95	7.93	7.85	7.78	7.73	7.64	7.50	7.34	7.23
44	7.54	7.62	7.74	7.84	7.87	7.87	7.92	8.02	8.09	8.06	7.97	7.90	7.85	7.78	7.65	7.50	7.40
46	7.65	7.73	7.83	7.92	7.95	7.95	8.00	8.10	8.17	8.14	8.05	7.97	7.93	7.86	7.75	7.63	7.55
48	7.74	7.79	7.88	7.96	7.99	7.99	8.03	8.13	8.20	8.17	8.08	8.00	7.95	7.88	7.79	7.71	7.66
50	7.78	7.81	7.88	7.95	7.97	7.97	8.01	8.10	8.16	8.14	8.05	7.97	7.91	7.85	7.79	7.74	7.73
52	7.79	7.79	7.82	7.87	7.90	7.91	7.95	8.02	8.07	8.05	7.97	7.89	7.82	7.77	7.73	7.72	7.75
54	7.76	7.73	7.72	7.75	7.78	7.81	7.85	7.90	7.93	7.91	7.84	7.77	7.70	7.64	7.62	7.65	7.70
56	7.69	7.63	7.59	7.59	7.63	7.67	7.71	7.75	7.76	7.74	7.69	7.62	7.55	7.50	7.49	7.53	7.60
58	7.60	7.51	7.43	7.41	7.45	7.52	7.57	7.58	7.57	7.55	7.52	7.46	7.39	7.34	7.34	7.39	7.46
60	7.48	7.37	7.27	7.22	7.27	7.35	7.41	7.41	7.38	7.36	7.35	7.30	7.24	7.20	7.20	7.25	7.30
62	7.34	7.23	7.10	7.03	7.08	7.18	7.26	7.24	7.20	7.18	7.18	7.15	7.10	7.06	7.07	7.10	7.13
64	7.18	7.08	6.94	6.85	6.90	7.02	7.10	7.08	7.02	7.00	7.02	7.02	6.97	6.94	6.95	6.97	6.97
66	7.02	6.93	6.78	6.69	6.72	6.85	6.94	6.91	6.85	6.84	6.88	6.89	6.86	6.84	6.86	6.86	6.82
68	6.85	6.78	6.64	6.54	6.57	6.69	6.78	6.74	6.68	6.68	6.74	6.77	6.76	6.76	6.78	6.76	6.70
70	6.67	6.62	6.50	6.40	6.42	6.53	6.60	6.56	6.51	6.52	6.60	6.65	6.66	6.68	6.70	6.68	6.60
72	6.49	6.46	6.37	6.28	6.28	6.36	6.41	6.37	6.33	6.36	6.45	6.51	6.55	6.59	6.63	6.60	6.51
74	6.31	6.29	6.23	6.16	6.16	6.20	6.22	6.17	6.15	6.20	6.30	6.37	6.42	6.49	6.55	6.52	6.42
76	6.15	6.14	6.10	6.05	6.04	6.05	6.04	6.00	6.00	6.06	6.15	6.22	6.29	6.38	6.45	6.43	6.34
78	6.02	6.01	5.99	5.96	5.95	5.94	5.91	5.89	5.91	5.97	6.04	6.09	6.16	6.26	6.35	6.35	6.26
80	5.98	5.96	5.93	5.91	5.90	5.91	5.92	5.93	5.97	6.02	6.03	6.03	6.07	6.17	6.28	6.29	6.21

APRIL

18	6.26	6.39	6.47	6.43	6.32	6.20	6.09	6.00	5.96	5.99	6.07	6.19	6.32	6.43	6.53	6.60	6.63
20	6.13	6.30	6.42	6.43	6.35	6.25	6.17	6.11	6.08	6.11	6.18	6.27	6.35	6.43	6.49	6.55	6.58
22	6.06	6.24	6.39	6.43	6.41	6.36	6.31	6.26	6.24	6.27	6.33	6.38	6.41	6.44	6.49	6.54	6.58
24	6.04	6.20	6.36	6.44	6.47	6.48	6.47	6.43	6.41	6.44	6.48	6.50	6.48	6.47	6.50	6.55	6.59
26	6.06	6.19	6.34	6.45	6.54	6.60	6.62	6.60	6.59	6.61	6.63	6.62	6.57	6.54	6.54	6.57	6.59
28	6.10	6.21	6.35	6.48	6.61	6.71	6.76	6.76	6.76	6.77	6.77	6.74	6.68	6.63	6.61	6.61	6.61
30	6.18	6.26	6.38	6.54	6.69	6.81	6.88	6.92	6.93	6.92	6.91	6.87	6.82	6.76	6.71	6.67	6.64
32	6.29	6.34	6.46	6.62	6.79	6.92	7.01	7.07	7.10	7.08	7.05	7.02	6.98	6.92	6.84	6.76	6.70
34	6.42	6.46	6.56	6.73	6.90	7.04	7.15	7.23	7.27	7.25	7.20	7.17	7.16	7.11	7.00	6.88	6.79
36	6.57	6.60	6.70	6.87	7.05	7.18	7.29	7.40	7.45	7.42	7.36	7.34	7.35	7.31	7.19	7.04	6.93
38	6.75	6.77	6.87	7.04	7.20	7.33	7.45	7.56	7.62	7.59	7.53	7.51	7.54	7.51	7.38	7.22	7.09
40	6.93	6.94	7.04	7.21	7.37	7.49	7.60	7.72	7.79	7.76	7.69	7.68	7.72	7.70	7.58	7.41	7.29
42	7.12	7.13	7.22	7.38	7.53	7.64	7.75	7.87	7.94	7.90	7.84	7.83	7.88	7.87	7.76	7.60	7.48
44	7.29	7.30	7.38	7.53	7.67	7.78	7.88	7.99	8.05	8.02	7.95	7.95	8.00	8.00	7.91	7.77	7.67
46	7.45	7.44	7.51	7.65	7.78	7.88	7.97	8.07	8.12	8.09	8.03	8.02	8.07	8.08	8.01	7.90	7.82
48	7.59	7.55	7.60	7.72	7.84	7.94	8.02	8.09	8.13	8.10	8.05	8.05	8.09	8.10	8.05	7.97	7.91
50	7.68	7.62	7.63	7.73	7.85	7.94	8.01	8.07	8.10	8.07	8.02	8.02	8.05	8.07	8.04	7.98	7.94
52	7.73	7.64	7.62	7.69	7.80	7.89	7.95	7.99	8.00	7.98	7.94	7.94	7.97	7.99	7.97	7.93	7.91
54	7.74	7.62	7.56	7.60	7.70	7.79	7.84	7.87	7.87	7.84	7.82	7.83	7.85	7.87	7.85	7.83	7.82
56	7.71	7.56	7.47	7.48	7.57	7.66	7.70	7.71	7.70	7.68	7.67	7.68	7.71	7.72	7.71	7.69	7.68
58	7.64	7.48	7.35	7.34	7.41	7.50	7.54	7.53	7.51	7.49	7.51	7.53	7.55	7.56	7.55	7.54	7.53
60	7.55	7.38	7.24	7.19	7.25	7.33	7.36	7.34	7.30	7.30	7.34	7.38	7.39	7.39	7.39	7.38	7.37
62	7.44	7.28	7.12	7.05	7.08	7.16	7.19	7.15	7.10	7.12	7.18	7.23	7.23	7.23	7.23	7.23	7.22
64	7.32	7.18	7.01	6.91	6.92	7.00	7.02	6.96	6.90	6.94	7.03	7.08	7.08	7.07	7.09	7.10	7.08
66	7.19	7.08	6.92	6.79	6.78	6.84	6.85	6.77	6.71	6.76	6.88	6.94	6.93	6.92	6.94	6.98	6.96
68	7.07	6.99	6.83	6.68	6.65	6.69	6.69	6.60	6.54	6.60	6.73	6.80	6.79	6.78	6.83	6.86	6.84
70	6.96	6.90	6.74	6.58	6.52	6.54	6.52	6.43	6.37	6.43	6.57	6.64	6.64	6.64	6.70	6.74	6.72
72	6.86	6.81	6.65	6.48	6.40	6.39	6.35	6.26	6.21	6.28	6.40	6.47	6.48	6.50	6.56	6.60	6.58
74	6.77	6.72	6.56	6.38	6.27	6.23	6.19	6.11	6.08	6.13	6.23	6.30	6.32	6.35	6.41	6.43	6.40
76	6.71	6.64	6.48	6.30	6.16	6.09	6.04	6.00	5.98	6.01	6.07	6.12	6.15	6.19	6.23	6.24	6.20
78	6.69	6.59	6.42	6.24	6.08	5.99	5.95	5.94	5.95	5.94	5.97	5.98	6.00	6.03	6.05	6.00	6.00
80	6.72	6.62	6.45	6.24	6.08	5.99	5.99	6.02	6.05	6.05	6.00	5.93	5.88	5.88	5.89	5.88	5.84

ZONAL MEAN PRESSURE SCALE HT (KM)

KM LAT = -80 -70 -60 -50 -40 -30 -20 -10 0 10 20 30 40 50 60 70 80 DEG

MAY

18	5.87	6.08	6.30	6.40	6.35	6.22	6.09	6.01	5.99	6.00	6.06	6.17	6.32	6.45	6.56	6.63	6.68
20	5.63	5.91	6.21	6.38	6.38	6.28	6.18	6.13	6.12	6.14	6.20	6.29	6.39	6.48	6.54	6.60	6.64
22	5.56	5.82	6.13	6.35	6.42	6.38	6.32	6.28	6.28	6.31	6.36	6.42	6.47	6.52	6.55	6.60	6.64
24	5.60	5.80	6.07	6.31	6.45	6.49	6.46	6.44	6.45	6.48	6.51	6.54	6.56	6.58	6.60	6.63	6.68
26	5.70	5.83	6.04	6.28	6.48	6.58	6.61	6.61	6.62	6.64	6.65	6.66	6.66	6.66	6.67	6.70	6.74
28	5.84	5.90	6.05	6.27	6.51	6.67	6.75	6.77	6.78	6.79	6.79	6.78	6.77	6.77	6.77	6.79	6.82
30	6.01	6.01	6.09	6.30	6.55	6.76	6.88	6.93	6.94	6.94	6.92	6.91	6.90	6.90	6.90	6.91	6.92
32	6.19	6.14	6.18	6.36	6.61	6.85	7.01	7.08	7.10	7.08	7.06	7.04	7.05	7.06	7.06	7.05	7.05
34	6.39	6.30	6.30	6.45	6.71	6.96	7.14	7.23	7.25	7.23	7.20	7.19	7.22	7.24	7.23	7.22	7.20
36	6.60	6.49	6.46	6.59	6.83	7.09	7.28	7.38	7.40	7.39	7.35	7.36	7.39	7.43	7.43	7.40	7.37
38	6.80	6.68	6.64	6.75	6.97	7.23	7.43	7.53	7.55	7.51	7.51	7.53	7.58	7.62	7.62	7.59	7.55
40	7.00	6.89	6.84	6.92	7.13	7.38	7.57	7.67	7.69	7.67	7.66	7.70	7.76	7.80	7.81	7.78	7.73
42	7.19	7.09	7.04	7.11	7.29	7.52	7.71	7.79	7.81	7.80	7.80	7.85	7.91	7.97	7.98	7.95	7.91
44	7.37	7.27	7.22	7.28	7.44	7.65	7.82	7.90	7.91	7.90	7.92	7.97	8.04	8.09	8.11	8.10	8.07
46	7.52	7.44	7.39	7.43	7.56	7.75	7.91	7.97	7.97	7.97	7.99	8.05	8.12	8.18	8.21	8.21	8.19
48	7.64	7.57	7.52	7.53	7.64	7.81	7.96	8.01	8.00	7.99	8.02	8.08	8.15	8.20	8.25	8.27	8.27
50	7.72	7.67	7.61	7.59	7.67	7.82	7.96	8.01	7.99	7.98	8.00	8.06	8.12	8.18	8.23	8.28	8.30
52	7.76	7.72	7.65	7.60	7.65	7.78	7.91	7.96	7.93	7.91	7.94	7.99	8.05	8.10	8.17	8.23	8.28
54	7.76	7.73	7.65	7.57	7.58	7.69	7.81	7.86	7.83	7.80	7.83	7.88	7.93	7.98	8.06	8.14	8.20
56	7.72	7.70	7.61	7.51	7.48	7.57	7.68	7.71	7.68	7.66	7.69	7.73	7.77	7.83	7.91	8.01	8.08
58	7.64	7.64	7.55	7.42	7.37	7.43	7.51	7.54	7.51	7.50	7.53	7.57	7.60	7.65	7.74	7.85	7.92
60	7.54	7.55	7.47	7.33	7.25	7.27	7.33	7.33	7.30	7.31	7.36	7.40	7.42	7.46	7.56	7.67	7.75
62	7.42	7.45	7.38	7.23	7.13	7.11	7.13	7.11	7.09	7.12	7.18	7.22	7.23	7.27	7.37	7.48	7.55
64	7.30	7.34	7.28	7.13	7.01	6.96	6.93	6.88	6.86	6.92	7.01	7.05	7.04	7.07	7.17	7.28	7.35
66	7.18	7.23	7.18	7.04	6.90	6.81	6.73	6.65	6.64	6.73	6.83	6.87	6.85	6.88	6.98	7.09	7.14
68	7.07	7.12	7.08	6.94	6.79	6.66	6.53	6.43	6.43	6.54	6.66	6.69	6.66	6.68	6.78	6.88	6.92
70	6.98	7.02	6.97	6.83	6.67	6.51	6.35	6.24	6.24	6.36	6.47	6.50	6.46	6.48	6.58	6.67	6.69
72	6.92	6.93	6.86	6.71	6.54	6.35	6.18	6.06	6.07	6.18	6.29	6.30	6.26	6.28	6.37	6.44	6.44
74	6.88	6.85	6.75	6.58	6.39	6.20	6.03	5.93	5.94	6.04	6.11	6.09	6.06	6.08	6.15	6.19	6.18
76	6.87	6.79	6.65	6.46	6.25	6.06	5.91	5.85	5.87	5.93	5.95	5.91	5.86	5.87	5.90	5.92	5.89
78	6.87	6.75	6.58	6.37	6.16	5.97	5.86	5.83	5.86	5.89	5.85	5.76	5.69	5.66	5.65	5.62	5.58
80	6.87	6.75	6.59	6.40	6.19	6.00	5.91	5.92	5.97	5.97	5.87	5.71	5.57	5.47	5.38	5.31	5.26

JUNE

18	5.56	5.80	6.10	6.34	6.39	6.28	6.14	6.05	6.03	6.03	6.07	6.16	6.31	6.48	6.62	6.72	6.77
20	5.24	5.55	5.96	6.30	6.42	6.34	6.23	6.17	6.17	6.20	6.25	6.32	6.43	6.54	6.64	6.71	6.77
22	5.17	5.46	5.86	6.24	6.44	6.43	6.35	6.31	6.33	6.37	6.41	6.46	6.53	6.60	6.67	6.74	6.80
24	5.25	5.47	5.82	6.19	6.45	6.52	6.48	6.46	6.48	6.52	6.55	6.58	6.63	6.68	6.73	6.79	6.84
26	5.43	5.56	5.82	6.15	6.43	6.58	6.61	6.61	6.63	6.66	6.68	6.70	6.73	6.77	6.81	6.87	6.91
28	5.65	5.71	5.87	6.13	6.42	6.63	6.73	6.76	6.77	6.78	6.80	6.81	6.83	6.87	6.92	6.97	7.01
30	5.91	5.90	5.97	6.16	6.43	6.69	6.85	6.90	6.90	6.90	6.91	6.93	6.95	7.00	7.06	7.11	7.12
32	6.18	6.12	6.12	6.22	6.46	6.76	6.97	7.05	7.04	7.02	7.03	7.05	7.08	7.14	7.22	7.26	7.26
34	6.45	6.36	6.29	6.33	6.54	6.84	7.10	7.19	7.17	7.15	7.16	7.19	7.23	7.30	7.39	7.43	7.41
36	6.71	6.60	6.49	6.48	6.65	6.96	7.23	7.33	7.30	7.28	7.30	7.34	7.39	7.47	7.57	7.61	7.58
38	6.95	6.84	6.70	6.66	6.80	7.10	7.38	7.47	7.44	7.41	7.44	7.49	7.55	7.65	7.75	7.79	7.76
40	7.17	7.07	6.93	6.86	6.98	7.26	7.52	7.61	7.57	7.55	7.59	7.65	7.71	7.81	7.92	7.97	7.94
42	7.36	7.27	7.14	7.07	7.17	7.42	7.65	7.73	7.69	7.67	7.72	7.79	7.86	7.96	8.07	8.13	8.10
44	7.53	7.46	7.34	7.27	7.35	7.57	7.77	7.83	7.79	7.78	7.84	7.91	7.98	8.08	8.19	8.26	8.25
46	7.67	7.61	7.51	7.44	7.51	7.70	7.86	7.90	7.87	7.87	7.92	7.99	8.06	8.16	8.28	8.35	8.36
48	7.78	7.74	7.64	7.57	7.62	7.78	7.92	7.95	7.91	7.91	7.97	8.04	8.11	8.20	8.32	8.41	8.44
50	7.86	7.83	7.74	7.65	7.68	7.80	7.92	7.95	7.92	7.92	7.97	8.04	8.10	8.19	8.32	8.42	8.47
52	7.91	7.88	7.79	7.68	7.68	7.78	7.88	7.91	7.88	7.87	7.92	7.98	8.04	8.14	8.27	8.39	8.45
54	7.91	7.90	7.80	7.67	7.62	7.70	7.79	7.82	7.79	7.79	7.83	7.88	7.94	8.04	8.18	8.31	8.39
56	7.87	7.87	7.77	7.62	7.54	7.58	7.66	7.68	7.66	7.65	7.69	7.74	7.80	7.90	8.05	8.20	8.28
58	7.79	7.81	7.71	7.54	7.43	7.44	7.49	7.51	7.49	7.49	7.52	7.56	7.62	7.73	7.89	8.04	8.13
60	7.68	7.71	7.62	7.45	7.31	7.28	7.31	7.31	7.30	7.30	7.33	7.37	7.43	7.54	7.70	7.86	7.95
62	7.54	7.58	7.52	7.35	7.19	7.12	7.10	7.09	7.08	7.09	7.12	7.16	7.21	7.33	7.49	7.65	7.74
64	7.39	7.43	7.39	7.25	7.08	6.96	6.89	6.86	6.86	6.88	6.91	6.94	6.99	7.10	7.26	7.42	7.51
66	7.23	7.27	7.25	7.14	6.97	6.81	6.68	6.62	6.63	6.67	6.70	6.72	6.76	6.86	7.02	7.16	7.25
68	7.08	7.11	7.11	7.02	6.85	6.65	6.48	6.40	6.41	6.47	6.51	6.51	6.53	6.62	6.76	6.89	6.97
70	6.95	6.97	6.96	6.88	6.71	6.48	6.29	6.19	6.21	6.28	6.32	6.30	6.30	6.36	6.49	6.61	6.67
72	6.85	6.84	6.81	6.73	6.55	6.31	6.10	6.01	6.04	6.11	6.15	6.11	6.08	6.11	6.21	6.30	6.36
74	6.77	6.74	6.67	6.55	6.36	6.14	5.95	5.86	5.90	5.97	5.99	5.93	5.86	5.85	5.91	5.99	6.03
76	6.73	6.67	6.55	6.39	6.19	5.98	5.82	5.76	5.80	5.87	5.87	5.77	5.66	5.60	5.62	5.66	5.68
78	6.70	6.61	6.47	6.27	6.07	5.88	5.76	5.73	5.78	5.82	5.79	5.65	5.48	5.37	5.32	5.32	5.33
80	6.65	6.55	6.43	6.30	6.12	5.93	5.81	5.79	5.85	5.86	5.77	5.58	5.35	5.16	5.03	4.98	4.98

ZONAL MEAN PRESSURE SCALE HT (KM)

KM LAT = -80 -70 -60 -50 -40 -30 -20 -10 0 10 20 30 40 50 60 70 80 DEG

JULY

18	5.25	5.53	5.93	6.27	6.39	6.29	6.14	6.06	6.05	6.06	6.09	6.17	6.31	6.48	6.63	6.73	6.79
20	4.92	5.26	5.76	6.22	6.41	6.34	6.21	6.15	6.18	6.22	6.26	6.32	6.42	6.54	6.64	6.72	6.78
22	4.96	5.25	5.71	6.18	6.45	6.45	6.34	6.29	6.32	6.38	6.41	6.46	6.53	6.61	6.68	6.75	6.82
24	5.20	5.39	5.73	6.16	6.48	6.55	6.48	6.44	6.47	6.51	6.54	6.57	6.63	6.69	6.74	6.81	6.87
26	5.53	5.61	5.83	6.17	6.49	6.63	6.62	6.59	6.60	6.63	6.65	6.67	6.72	6.78	6.83	6.89	6.94
28	5.89	5.88	5.98	6.22	6.50	6.68	6.73	6.73	6.72	6.74	6.75	6.77	6.82	6.88	6.94	6.99	7.03
30	6.23	6.16	6.17	6.30	6.52	6.73	6.84	6.85	6.84	6.84	6.85	6.88	6.92	6.99	7.07	7.12	7.13
32	6.54	6.45	6.38	6.42	6.58	6.79	6.94	6.98	6.96	6.95	6.96	6.99	7.04	7.13	7.22	7.26	7.25
34	6.79	6.71	6.61	6.57	6.67	6.87	7.05	7.11	7.08	7.06	7.08	7.11	7.17	7.27	7.37	7.42	7.39
36	7.00	6.96	6.84	6.75	6.79	6.98	7.17	7.24	7.21	7.19	7.21	7.25	7.32	7.42	7.54	7.58	7.55
38	7.18	7.17	7.07	6.95	6.96	7.12	7.31	7.38	7.35	7.32	7.35	7.39	7.46	7.58	7.70	7.75	7.71
40	7.34	7.36	7.27	7.15	7.14	7.29	7.46	7.53	7.49	7.47	7.49	7.54	7.61	7.73	7.86	7.91	7.88
42	7.49	7.52	7.45	7.34	7.33	7.46	7.61	7.67	7.63	7.60	7.63	7.68	7.75	7.87	8.00	8.06	8.04
44	7.64	7.66	7.60	7.51	7.51	7.62	7.75	7.79	7.75	7.73	7.75	7.80	7.87	7.98	8.11	8.18	8.18
46	7.79	7.79	7.72	7.64	7.65	7.75	7.86	7.89	7.85	7.82	7.84	7.89	7.96	8.07	8.19	8.28	8.30
48	7.92	7.88	7.80	7.72	7.73	7.83	7.93	7.94	7.91	7.88	7.90	7.94	8.01	8.11	8.24	8.34	8.38
50	8.03	7.96	7.84	7.75	7.75	7.85	7.94	7.96	7.92	7.90	7.92	7.95	8.01	8.11	8.24	8.36	8.42
52	8.09	8.00	7.85	7.72	7.71	7.80	7.89	7.92	7.89	7.87	7.88	7.91	7.96	8.06	8.20	8.34	8.42
54	8.10	8.00	7.82	7.66	7.61	7.69	7.79	7.83	7.81	7.79	7.80	7.81	7.86	7.96	8.12	8.28	8.37
56	8.05	7.95	7.76	7.56	7.48	7.54	7.64	7.70	7.69	7.67	7.67	7.67	7.71	7.83	8.01	8.18	8.27
58	7.95	7.86	7.67	7.44	7.33	7.36	7.46	7.53	7.54	7.52	7.51	7.50	7.54	7.66	7.85	8.04	8.14
60	7.80	7.73	7.55	7.32	7.18	7.18	7.26	7.33	7.36	7.34	7.32	7.30	7.33	7.46	7.67	7.86	7.97
62	7.61	7.57	7.41	7.19	7.03	7.00	7.06	7.13	7.16	7.15	7.12	7.09	7.11	7.25	7.46	7.66	7.77
64	7.41	7.38	7.26	7.07	6.91	6.84	6.86	6.91	6.95	6.95	6.91	6.87	6.89	7.02	7.23	7.43	7.54
66	7.22	7.19	7.10	6.95	6.79	6.70	6.67	6.70	6.74	6.75	6.71	6.66	6.67	6.78	6.97	7.16	7.28
68	7.03	7.01	6.94	6.83	6.69	6.56	6.50	6.50	6.53	6.55	6.52	6.46	6.45	6.54	6.70	6.88	7.00
70	6.87	6.85	6.80	6.71	6.57	6.43	6.33	6.30	6.33	6.36	6.34	6.28	6.25	6.30	6.42	6.57	6.68
72	6.74	6.71	6.66	6.58	6.44	6.29	6.17	6.12	6.14	6.18	6.17	6.11	6.05	6.05	6.12	6.24	6.34
74	6.62	6.61	6.55	6.44	6.30	6.14	6.02	5.96	5.97	6.02	6.03	5.97	5.87	5.81	5.82	5.90	5.98
76	6.54	6.53	6.46	6.32	6.15	6.00	5.89	5.83	5.83	5.89	5.92	5.85	5.71	5.57	5.52	5.56	5.62
78	6.47	6.47	6.40	6.23	6.04	5.90	5.80	5.75	5.75	5.81	5.84	5.75	5.56	5.35	5.23	5.22	5.27
80	6.43	6.40	6.34	6.23	6.07	5.91	5.79	5.75	5.78	5.82	5.81	5.68	5.43	5.14	4.95	4.90	4.95

AUGUST

18	5.00	5.41	5.93	6.32	6.42	6.29	6.13	6.04	6.03	6.06	6.12	6.21	6.34	6.47	6.59	6.68	6.72
20	4.64	5.13	5.79	6.30	6.45	6.34	6.18	6.12	6.13	6.18	6.25	6.33	6.42	6.51	6.59	6.66	6.71
22	4.79	5.21	5.80	6.31	6.51	6.45	6.32	6.26	6.28	6.34	6.38	6.44	6.50	6.57	6.63	6.68	6.72
24	5.17	5.47	5.91	6.34	6.56	6.56	6.47	6.42	6.44	6.48	6.51	6.54	6.59	6.65	6.69	6.72	6.75
26	5.67	5.82	6.09	6.39	6.60	6.65	6.61	6.57	6.59	6.61	6.62	6.64	6.68	6.73	6.77	6.79	6.81
28	6.18	6.20	6.30	6.47	6.64	6.72	6.73	6.71	6.71	6.72	6.73	6.74	6.77	6.82	6.86	6.88	6.88
30	6.62	6.56	6.54	6.58	6.68	6.78	6.84	6.84	6.83	6.83	6.83	6.84	6.87	6.92	6.98	6.99	6.98
32	6.96	6.88	6.77	6.71	6.75	6.85	6.95	6.97	6.95	6.94	6.94	6.95	6.98	7.04	7.10	7.12	7.09
34	7.19	7.14	7.00	6.86	6.84	6.94	7.07	7.11	7.09	7.06	7.06	7.07	7.10	7.17	7.24	7.26	7.22
36	7.35	7.35	7.22	7.03	6.96	7.05	7.20	7.26	7.23	7.20	7.20	7.21	7.24	7.31	7.39	7.41	7.37
38	7.46	7.51	7.40	7.20	7.10	7.19	7.35	7.42	7.39	7.35	7.34	7.36	7.39	7.46	7.54	7.57	7.52
40	7.57	7.64	7.56	7.36	7.26	7.34	7.51	7.59	7.56	7.51	7.49	7.50	7.54	7.61	7.69	7.71	7.67
42	7.70	7.76	7.68	7.51	7.42	7.50	7.67	7.75	7.72	7.66	7.64	7.64	7.68	7.75	7.82	7.85	7.81
44	7.84	7.86	7.77	7.61	7.55	7.65	7.81	7.89	7.86	7.80	7.76	7.76	7.79	7.86	7.93	7.96	7.93
46	7.98	7.94	7.82	7.68	7.65	7.76	7.92	8.00	7.97	7.90	7.86	7.84	7.87	7.94	8.01	8.05	8.03
48	8.11	8.00	7.83	7.70	7.70	7.82	7.98	8.05	8.02	7.96	7.91	7.89	7.91	7.98	8.05	8.10	8.10
50	8.20	8.02	7.81	7.67	7.68	7.82	7.97	8.05	8.02	7.96	7.91	7.89	7.90	7.97	8.05	8.11	8.13
52	8.23	8.00	7.75	7.60	7.61	7.75	7.91	7.98	7.96	7.91	7.87	7.84	7.85	7.91	8.01	8.09	8.13
54	8.18	7.94	7.67	7.50	7.50	7.64	7.79	7.86	7.85	7.82	7.79	7.75	7.75	7.81	7.92	8.04	8.10
56	8.06	7.83	7.56	7.37	7.36	7.48	7.63	7.70	7.71	7.69	7.67	7.63	7.61	7.67	7.81	7.95	8.04
58	7.88	7.68	7.43	7.24	7.20	7.31	7.44	7.52	7.54	7.54	7.53	7.48	7.45	7.51	7.66	7.83	7.94
60	7.67	7.51	7.28	7.10	7.05	7.13	7.25	7.32	7.36	7.38	7.37	7.32	7.28	7.34	7.50	7.69	7.82
62	7.45	7.33	7.14	6.98	6.92	6.98	7.06	7.13	7.18	7.22	7.21	7.15	7.10	7.15	7.32	7.52	7.66
64	7.25	7.15	7.00	6.87	6.81	6.84	6.89	6.94	7.00	7.05	7.05	6.98	6.91	6.96	7.12	7.32	7.47
66	7.07	6.98	6.86	6.77	6.72	6.71	6.73	6.76	6.82	6.88	6.88	6.81	6.73	6.76	6.91	7.10	7.25
68	6.91	6.84	6.75	6.68	6.64	6.61	6.58	6.59	6.64	6.71	6.71	6.64	6.56	6.57	6.69	6.85	6.99
70	6.78	6.72	6.65	6.60	6.56	6.50	6.44	6.42	6.46	6.52	6.54	6.47	6.39	6.37	6.45	6.58	6.70
72	6.66	6.62	6.58	6.53	6.47	6.39	6.30	6.25	6.26	6.32	6.36	6.31	6.22	6.16	6.19	6.29	6.39
74	6.54	6.55	6.52	6.45	6.36	6.26	6.16	6.08	6.07	6.12	6.18	6.15	6.05	5.95	5.93	5.99	6.07
76	6.43	6.49	6.48	6.37	6.23	6.12	6.02	5.93	5.89	5.94	6.02	6.01	5.89	5.75	5.68	5.70	5.75
78	6.35	6.45	6.43	6.29	6.13	6.00	5.91	5.82	5.78	5.83	5.91	5.90	5.75	5.56	5.44	5.43	5.48
80	6.41	6.41	6.36	6.25	6.10	5.98	5.88	5.83	5.82	5.86	5.90	5.85	5.66	5.42	5.25	5.21	5.27

ZONAL MEAN PRESSURE SCALE HT (KM)

KM LAT = -80 -70 -60 -50 -40 -30 -20 -10 0 10 20 30 40 50 60 70 80 DEG

SEPTEMBER

18	5.17	5.67	6.22	6.49	6.43	6.28	6.12	6.04	6.01	6.03	6.11	6.22	6.34	6.46	6.55	6.60	6.60
20	5.01	5.56	6.18	6.50	6.46	6.30	6.19	6.14	6.13	6.15	6.21	6.29	6.38	6.46	6.53	6.56	6.55
22	5.24	5.70	6.22	6.51	6.52	6.40	6.32	6.29	6.29	6.32	6.35	6.39	6.45	6.50	6.55	6.56	6.55
24	5.66	5.97	6.32	6.53	6.57	6.51	6.46	6.45	6.46	6.48	6.49	6.50	6.52	6.56	6.58	6.58	6.55
26	6.18	6.31	6.46	6.57	6.62	6.62	6.60	6.60	6.61	6.63	6.62	6.61	6.61	6.62	6.63	6.61	6.57
28	6.69	6.66	6.63	6.63	6.66	6.71	6.73	6.75	6.75	6.75	6.74	6.71	6.69	6.69	6.69	6.66	6.60
30	7.13	6.98	6.81	6.71	6.72	6.79	6.86	6.89	6.88	6.87	6.85	6.82	6.79	6.78	6.77	6.72	6.64
32	7.47	7.25	7.00	6.82	6.80	6.89	6.99	7.03	7.02	7.00	6.97	6.94	6.90	6.89	6.87	6.80	6.70
34	7.69	7.47	7.18	6.95	6.90	7.00	7.13	7.19	7.16	7.13	7.10	7.07	7.03	7.01	6.98	6.90	6.78
36	7.83	7.64	7.35	7.10	7.03	7.13	7.28	7.35	7.32	7.28	7.25	7.21	7.18	7.15	7.11	7.01	6.89
38	7.92	7.77	7.50	7.25	7.17	7.28	7.44	7.52	7.49	7.44	7.40	7.37	7.33	7.31	7.26	7.15	7.01
40	8.00	7.87	7.63	7.40	7.33	7.44	7.60	7.69	7.67	7.61	7.56	7.52	7.49	7.46	7.41	7.29	7.15
42	8.07	7.94	7.73	7.54	7.49	7.59	7.75	7.84	7.83	7.77	7.71	7.67	7.64	7.61	7.55	7.43	7.29
44	8.14	7.99	7.79	7.64	7.62	7.73	7.88	7.97	7.97	7.91	7.84	7.79	7.76	7.74	7.67	7.55	7.43
46	8.21	8.01	7.82	7.70	7.72	7.83	7.97	8.06	8.06	8.00	7.93	7.88	7.86	7.83	7.76	7.66	7.55
48	8.25	8.02	7.81	7.72	7.76	7.88	8.01	8.09	8.09	8.04	7.97	7.92	7.90	7.87	7.81	7.73	7.65
50	8.26	7.99	7.74	7.69	7.75	7.88	7.99	8.06	8.07	8.02	7.96	7.92	7.89	7.86	7.82	7.76	7.72
52	8.22	7.93	7.69	7.62	7.69	7.82	7.92	7.98	7.98	7.95	7.90	7.86	7.83	7.80	7.77	7.75	7.75
54	8.13	7.84	7.60	7.52	7.59	7.71	7.80	7.84	7.85	7.83	7.80	7.77	7.73	7.70	7.69	7.70	7.74
56	7.98	7.72	7.49	7.40	7.46	7.56	7.65	7.68	7.68	7.68	7.67	7.64	7.59	7.55	7.56	7.62	7.69
58	7.80	7.57	7.37	7.28	7.32	7.41	7.47	7.49	7.49	7.51	7.52	7.49	7.42	7.39	7.42	7.50	7.60
60	7.59	7.42	7.24	7.16	7.18	7.25	7.29	7.29	7.30	7.34	7.36	7.32	7.25	7.21	7.25	7.37	7.48
62	7.38	7.26	7.12	7.04	7.05	7.09	7.11	7.10	7.12	7.17	7.21	7.16	7.07	7.03	7.09	7.22	7.34
64	7.19	7.10	7.00	6.94	6.94	6.95	6.94	6.92	6.94	7.02	7.06	7.00	6.90	6.86	6.93	7.06	7.18
66	7.01	6.96	6.89	6.85	6.84	6.83	6.78	6.75	6.78	6.86	6.91	6.84	6.73	6.69	6.77	6.90	7.01
68	6.85	6.83	6.80	6.77	6.75	6.71	6.63	6.58	6.61	6.70	6.75	6.69	6.58	6.54	6.62	6.73	6.82
70	6.72	6.72	6.71	6.69	6.65	6.58	6.48	6.41	6.44	6.53	6.59	6.53	6.43	6.40	6.47	6.57	6.62
72	6.59	6.62	6.63	6.59	6.54	6.45	6.34	6.25	6.26	6.34	6.41	6.37	6.29	6.27	6.32	6.39	6.43
74	6.47	6.54	6.55	6.49	6.40	6.30	6.19	6.09	6.07	6.15	6.22	6.21	6.16	6.14	6.18	6.22	6.23
76	6.35	6.45	6.46	6.37	6.25	6.15	6.05	5.95	5.91	5.97	6.05	6.07	6.03	6.01	6.04	6.07	6.05
78	6.25	6.37	6.37	6.25	6.11	6.02	5.94	5.86	5.82	5.86	5.93	5.96	5.93	5.92	5.93	5.94	5.92
80	6.23	6.28	6.26	6.15	6.04	5.97	5.93	5.90	5.89	5.92	5.94	5.93	5.90	5.87	5.87	5.87	5.86

OCTOBER

18	5.76	6.12	6.45	6.52	6.39	6.21	6.09	6.03	6.00	6.02	6.09	6.20	6.31	6.42	6.48	6.49	6.45
20	5.66	6.05	6.42	6.53	6.43	6.29	6.20	6.15	6.13	6.13	6.18	6.25	6.33	6.41	6.45	6.43	6.37
22	5.81	6.14	6.44	6.54	6.48	6.40	6.34	6.31	6.29	6.29	6.32	6.35	6.39	6.42	6.44	6.39	6.32
24	6.11	6.33	6.51	6.56	6.53	6.51	6.49	6.48	6.46	6.47	6.48	6.47	6.46	6.45	6.43	6.37	6.28
26	6.47	6.57	6.61	6.60	6.59	6.61	6.63	6.63	6.63	6.63	6.63	6.58	6.53	6.48	6.44	6.35	6.24
28	6.86	6.83	6.74	6.66	6.65	6.71	6.77	6.79	6.78	6.78	6.76	6.69	6.60	6.53	6.45	6.34	6.21
30	7.23	7.08	6.89	6.76	6.74	6.81	6.90	6.93	6.94	6.93	6.89	6.80	6.69	6.59	6.49	6.35	6.20
32	7.56	7.33	7.06	6.88	6.85	6.94	7.04	7.08	7.09	7.07	7.07	7.01	6.91	6.79	6.68	6.56	6.39
34	7.83	7.55	7.24	7.03	6.99	7.07	7.18	7.24	7.25	7.22	7.15	7.03	6.91	6.80	6.66	6.46	6.27
36	8.03	7.74	7.42	7.21	7.16	7.23	7.34	7.40	7.41	7.37	7.29	7.17	7.06	6.94	6.78	6.57	6.37
38	8.19	7.90	7.59	7.39	7.34	7.40	7.50	7.57	7.57	7.53	7.44	7.33	7.22	7.09	6.92	6.71	6.51
40	8.29	8.02	7.74	7.57	7.52	7.58	7.66	7.73	7.73	7.68	7.59	7.49	7.38	7.26	7.08	6.87	6.68
42	8.36	8.11	7.87	7.73	7.70	7.74	7.81	7.87	7.88	7.83	7.74	7.64	7.55	7.42	7.25	7.04	6.88
44	8.38	8.16	7.96	7.85	7.84	7.87	7.93	7.98	7.99	7.94	7.86	7.78	7.69	7.57	7.40	7.22	7.09
46	8.38	8.18	8.01	7.94	7.93	7.97	8.01	8.06	8.07	8.02	7.95	7.88	7.80	7.68	7.52	7.38	7.29
48	8.34	8.16	8.01	7.96	7.98	8.01	8.04	8.08	8.09	8.06	8.00	7.94	7.86	7.74	7.61	7.51	7.46
50	8.27	8.10	7.97	7.94	7.96	7.99	8.02	8.04	8.06	8.04	7.99	7.94	7.87	7.75	7.64	7.59	7.60
52	8.17	8.01	7.89	7.87	7.89	7.92	7.94	7.96	7.97	7.94	7.93	7.89	7.82	7.71	7.63	7.63	7.68
54	8.04	7.90	7.79	7.76	7.78	7.81	7.82	7.83	7.84	7.84	7.83	7.79	7.72	7.62	7.57	7.61	7.71
56	7.89	7.76	7.66	7.63	7.65	7.67	7.67	7.67	7.67	7.68	7.69	7.66	7.58	7.49	7.47	7.55	7.69
58	7.73	7.62	7.53	7.49	7.50	7.51	7.51	7.48	7.48	7.50	7.52	7.50	7.42	7.34	7.35	7.47	7.62
60	7.56	7.47	7.39	7.34	7.35	7.36	7.34	7.29	7.28	7.31	7.35	7.33	7.25	7.19	7.22	7.36	7.52
62	7.38	7.33	7.26	7.21	7.20	7.21	7.17	7.10	7.07	7.12	7.17	7.15	7.07	7.03	7.09	7.24	7.40
64	7.22	7.19	7.13	7.08	7.07	7.07	7.01	6.92	6.88	6.93	7.00	6.99	6.91	6.88	6.97	7.13	7.28
66	7.06	7.05	7.00	6.95	6.94	6.93	6.85	6.74	6.69	6.75	6.83	6.83	6.76	6.75	6.85	7.02	7.15
68	6.90	6.92	6.88	6.83	6.81	6.78	6.69	6.56	6.51	6.58	6.67	6.68	6.62	6.63	6.75	6.91	7.03
70	6.75	6.78	6.75	6.70	6.67	6.63	6.52	6.40	6.35	6.42	6.52	6.53	6.49	6.52	6.66	6.81	6.91
72	6.60	6.63	6.62	6.56	6.51	6.45	6.35	6.23	6.20	6.26	6.36	6.38	6.37	6.42	6.57	6.71	6.79
74	6.43	6.47	6.46	6.40	6.33	6.26	6.17	6.09	6.06	6.12	6.20	6.24	6.26	6.33	6.48	6.61	6.67
76	6.24	6.30	6.29	6.23	6.14	6.07	6.02	5.97	5.97	6.01	6.06	6.10	6.15	6.25	6.40	6.52	6.58
78	6.04	6.10	6.11	6.06	5.98	5.93	5.91	5.92	5.94	5.96	5.98	6.01	6.08	6.19	6.34	6.47	6.54
80	5.83	5.90	5.94	5.92	5.89	5.89	5.94	6.01	6.05	6.04	6.01	6.01	6.07	6.19	6.35	6.50	6.61

ZONAL MEAN PRESSURE SCALE HT (KM)

KM LAT = -80 -70 -60 -50 -40 -30 -20 -10 0 10 20 30 40 50 60 70 80 DEG

NOVEMBER

18	6.66	6.64	6.56	6.40	6.20	6.04	5.95	5.92	5.93	5.95	6.01	6.12	6.26	6.34	6.33	6.27	6.22
20	6.66	6.63	6.55	6.41	6.25	6.13	6.07	6.06	6.05	6.05	6.08	6.16	6.26	6.30	6.26	6.17	6.08
22	6.73	6.69	6.59	6.46	6.33	6.25	6.22	6.22	6.21	6.20	6.21	6.25	6.29	6.29	6.22	6.09	5.98
24	6.85	6.80	6.68	6.53	6.42	6.38	6.38	6.39	6.38	6.37	6.37	6.36	6.34	6.29	6.19	6.04	5.90
26	7.00	6.93	6.79	6.63	6.54	6.53	6.55	6.56	6.56	6.55	6.53	6.48	6.39	6.30	6.18	6.02	5.87
28	7.16	7.08	6.93	6.77	6.68	6.68	6.72	6.73	6.74	6.73	6.69	6.59	6.46	6.33	6.20	6.03	5.87
30	7.33	7.24	7.09	6.93	6.85	6.85	6.88	6.91	6.92	6.91	6.85	6.72	6.55	6.39	6.24	6.07	5.92
32	7.50	7.41	7.27	7.12	7.04	7.03	7.06	7.08	7.09	7.09	7.01	6.85	6.65	6.47	6.31	6.15	6.02
34	7.66	7.58	7.45	7.32	7.24	7.22	7.23	7.25	7.27	7.26	7.17	6.99	6.78	6.59	6.43	6.28	6.14
36	7.83	7.75	7.64	7.53	7.45	7.41	7.41	7.42	7.43	7.42	7.33	7.15	6.93	6.73	6.57	6.44	6.34
38	7.98	7.91	7.82	7.73	7.65	7.60	7.58	7.58	7.59	7.57	7.48	7.31	7.10	6.90	6.74	6.63	6.56
40	8.12	8.05	7.98	7.91	7.84	7.78	7.74	7.73	7.73	7.71	7.63	7.47	7.28	7.08	6.94	6.84	6.80
42	8.24	8.18	8.11	8.06	8.00	7.94	7.88	7.85	7.85	7.83	7.76	7.63	7.44	7.26	7.13	7.07	7.05
44	8.33	8.27	8.22	8.17	8.12	8.06	7.99	7.95	7.94	7.92	7.87	7.75	7.59	7.43	7.32	7.28	7.29
46	8.39	8.33	8.28	8.23	8.19	8.13	8.06	8.01	7.99	7.99	7.95	7.85	7.70	7.56	7.48	7.47	7.50
48	8.42	8.36	8.29	8.25	8.21	8.15	8.08	8.03	8.01	8.01	7.98	7.89	7.76	7.65	7.60	7.61	7.66
50	8.41	8.33	8.26	8.21	8.17	8.12	8.05	8.00	7.99	7.99	7.97	7.89	7.77	7.68	7.66	7.70	7.76
52	8.36	8.27	8.19	8.13	8.09	8.04	7.98	7.93	7.92	7.93	7.91	7.83	7.73	7.67	7.67	7.73	7.80
54	8.27	8.17	8.07	8.01	7.97	7.92	7.87	7.83	7.82	7.83	7.81	7.73	7.64	7.60	7.63	7.71	7.78
56	8.14	8.04	7.93	7.86	7.82	7.78	7.73	7.69	7.69	7.70	7.68	7.60	7.52	7.50	7.55	7.63	7.70
58	7.98	7.87	7.76	7.68	7.64	7.61	7.57	7.53	7.53	7.54	7.52	7.45	7.38	7.38	7.44	7.53	7.58
60	7.80	7.69	7.58	7.50	7.46	7.44	7.40	7.35	7.34	7.36	7.35	7.29	7.24	7.25	7.32	7.41	7.45
62	7.60	7.50	7.38	7.30	7.27	7.26	7.22	7.17	7.14	7.16	7.16	7.13	7.09	7.12	7.21	7.28	7.31
64	7.39	7.30	7.19	7.11	7.08	7.08	7.04	6.98	6.94	6.95	6.98	6.97	6.96	7.00	7.10	7.16	7.17
66	7.17	7.10	6.99	6.91	6.89	6.90	6.87	6.78	6.73	6.75	6.80	6.82	6.84	6.90	7.00	7.06	7.05
68	6.94	6.89	6.80	6.72	6.70	6.72	6.68	6.59	6.53	6.55	6.63	6.68	6.72	6.80	6.91	6.97	6.95
70	6.71	6.68	6.60	6.52	6.51	6.53	6.50	6.41	6.35	6.37	6.46	6.54	6.61	6.71	6.83	6.88	6.86
72	6.47	6.46	6.40	6.33	6.31	6.33	6.31	6.24	6.18	6.21	6.30	6.40	6.50	6.62	6.75	6.80	6.78
74	6.22	6.23	6.20	6.14	6.11	6.13	6.13	6.09	6.05	6.07	6.16	6.27	6.39	6.53	6.66	6.73	6.72
76	5.94	5.98	5.97	5.94	5.93	5.95	5.98	5.98	5.97	5.99	6.05	6.15	6.28	6.44	6.58	6.66	6.67
78	5.64	5.69	5.73	5.74	5.76	5.81	5.88	5.94	5.97	5.97	6.00	6.07	6.20	6.37	6.53	6.63	6.66
80	5.31	5.37	5.46	5.54	5.64	5.76	5.90	6.03	6.09	6.07	6.05	6.09	6.21	6.39	6.55	6.67	6.73

DECEMBER

18	6.83	6.77	6.63	6.42	6.17	5.98	5.90	5.89	5.91	5.94	5.98	6.10	6.24	6.32	6.26	6.10	5.94
20	6.87	6.79	6.66	6.47	6.27	6.13	6.06	6.05	6.05	6.04	6.05	6.13	6.24	6.29	6.19	5.98	5.77
22	6.92	6.85	6.71	6.54	6.38	6.27	6.22	6.20	6.19	6.17	6.17	6.22	6.29	6.30	6.17	5.92	5.68
24	7.00	6.93	6.80	6.64	6.50	6.41	6.37	6.36	6.34	6.32	6.32	6.34	6.37	6.33	6.17	5.91	5.67
26	7.10	7.04	6.91	6.77	6.64	6.57	6.53	6.52	6.51	6.49	6.48	6.47	6.45	6.37	6.18	5.93	5.71
28	7.22	7.16	7.05	6.92	6.80	6.73	6.70	6.68	6.68	6.67	6.66	6.61	6.53	6.40	6.21	5.99	5.80
30	7.35	7.30	7.21	7.09	6.98	6.91	6.87	6.85	6.85	6.85	6.83	6.76	6.62	6.45	6.25	6.07	5.94
32	7.49	7.46	7.38	7.27	7.17	7.10	7.05	7.02	7.02	7.03	7.01	6.91	6.72	6.51	6.32	6.19	6.11
34	7.65	7.62	7.55	7.46	7.36	7.28	7.22	7.19	7.19	7.21	7.19	7.07	6.85	6.60	6.42	6.33	6.31
36	7.80	7.79	7.73	7.65	7.55	7.47	7.40	7.35	7.35	7.37	7.36	7.23	6.99	6.72	6.55	6.49	6.52
38	7.96	7.95	7.91	7.83	7.73	7.64	7.56	7.51	7.49	7.52	7.52	7.39	7.14	6.87	6.70	6.67	6.73
40	8.11	8.10	8.06	7.99	7.90	7.80	7.71	7.64	7.63	7.65	7.66	7.55	7.30	7.03	6.87	6.86	6.95
42	8.25	8.24	8.20	8.12	8.03	7.94	7.84	7.76	7.74	7.77	7.79	7.69	7.46	7.20	7.05	7.06	7.15
44	8.38	8.36	8.30	8.22	8.13	8.05	7.95	7.86	7.83	7.86	7.88	7.80	7.59	7.35	7.22	7.24	7.33
46	8.47	8.44	8.37	8.29	8.20	8.11	8.02	7.93	7.90	7.93	7.95	7.87	7.68	7.48	7.38	7.40	7.48
48	8.53	8.49	8.41	8.31	8.22	8.14	8.05	7.97	7.94	7.97	7.98	7.89	7.72	7.56	7.50	7.53	7.60
50	8.55	8.49	8.39	8.29	8.20	8.13	8.05	7.96	7.96	7.98	7.97	7.87	7.71	7.59	7.57	7.63	7.69
52	8.53	8.46	8.34	8.22	8.14	8.08	8.01	7.95	7.94	7.95	7.92	7.80	7.65	7.57	7.60	7.68	7.73
54	8.47	8.38	8.25	8.12	8.04	7.98	7.93	7.89	7.89	7.90	7.84	7.69	7.54	7.51	7.58	7.68	7.73
56	8.36	8.26	8.12	7.98	7.90	7.85	7.81	7.79	7.80	7.81	7.72	7.55	7.41	7.41	7.52	7.65	7.70
58	8.21	8.10	7.95	7.81	7.73	7.69	7.66	7.65	7.68	7.68	7.58	7.40	7.27	7.29	7.44	7.58	7.63
60	8.02	7.91	7.76	7.61	7.53	7.50	7.48	7.49	7.52	7.52	7.42	7.24	7.12	7.17	7.34	7.49	7.53
62	7.80	7.70	7.54	7.40	7.31	7.29	7.28	7.30	7.33	7.34	7.25	7.09	6.99	7.06	7.24	7.38	7.42
64	7.55	7.46	7.31	7.17	7.08	7.07	7.07	7.09	7.12	7.13	7.04	6.94	6.88	6.96	7.14	7.27	7.29
66	7.29	7.20	7.06	6.93	6.85	6.84	6.86	6.87	6.89	6.90	6.86	6.79	6.78	6.88	7.04	7.15	7.16
68	7.00	6.93	6.81	6.68	6.61	6.61	6.64	6.66	6.66	6.67	6.66	6.65	6.69	6.80	6.95	7.04	7.03
70	6.70	6.65	6.54	6.43	6.38	6.40	6.44	6.45	6.44	6.44	6.46	6.51	6.60	6.73	6.87	6.94	6.93
72	6.39	6.35	6.27	6.19	6.16	6.20	6.25	6.26	6.24	6.23	6.28	6.37	6.50	6.65	6.78	6.84	6.84
74	6.07	6.05	5.99	5.95	5.96	6.02	6.08	6.10	6.07	6.04	6.11	6.23	6.39	6.56	6.69	6.76	6.79
76	5.73	5.73	5.71	5.72	5.77	5.87	5.96	5.98	5.95	5.93	5.98	6.11	6.29	6.46	6.60	6.70	6.76
78	5.39	5.40	5.43	5.49	5.61	5.75	5.87	5.93	5.91	5.88	5.91	6.03	6.21	6.39	6.54	6.66	6.74
80	5.03	5.05	5.13	5.28	5.47	5.67	5.85	5.96	5.98	5.95	5.96	6.05	6.23	6.41	6.56	6.66	6.72

ZONAL MEAN GEOSTROPHIC W-E WIND (M/S)

KM LAT = -80 -70 -60 -50 -40 -30 -20 -10 0 10 20 30 40 50 60 70 80 DEG

JANUARY

18	0	2	4	9	8	3	-3	-5	-	3	15	21	21	19	16	13	8
20	0	1	3	4	3	-2	-7	-8	-	1	10	16	18	19	20	18	11
22	-1	0	0	0	-2	-6	-10	-12	-	1	6	11	16	21	25	23	14
24	-1	-1	-2	-4	-6	-10	-13	-16	-	1	3	8	14	23	30	29	18
26	-1	-2	-4	-7	-10	-13	-16	-19	-	0	1	6	14	25	34	34	2
28	-1	-3	-6	-10	-13	-17	-19	-22	-	-1	0	5	14	27	38	38	4
30	-1	-4	-8	-13	-17	-20	-23	-24	-	-2	0	5	15	28	40	42	27
32	-1	-4	-10	-15	-20	-24	-26	-26	-	-3	1	7	16	29	42	44	29
34	-1	-5	-11	-18	-24	-28	-29	-29	-	-4	3	10	18	30	43	46	30
36	-1	-5	-13	-21	-27	-31	-33	-34	-	-4	6	13	20	32	44	47	31
38	-1	-6	-14	-23	-31	-35	-37	-38	-	-4	8	16	23	33	45	48	32
40	-1	-6	-16	-26	-34	-39	-41	-37	-	-5	11	20	26	35	46	49	33
42	-1	-6	-17	-29	-37	-42	-45	-40	-	-6	13	23	29	37	48	50	34
44	-1	-7	-19	-31	-40	-46	-48	-42	-	-7	15	27	32	39	49	51	34
46	-1	-8	-21	-33	-42	-48	-51	-44	-	-9	17	30	36	42	51	52	35
48	-1	-9	-23	-36	-45	-51	-53	-46	-	-10	19	34	39	44	52	53	35
50	-2	-10	-24	-38	-47	-52	-54	-46	-	-10	22	38	43	46	53	53	35
52	-2	-12	-26	-40	-48	-53	-55	-45	-	-9	25	42	46	48	53	52	34
54	-3	-13	-29	-42	-50	-53	-54	-43	-	-6	30	47	49	49	51	50	33
56	-4	-15	-31	-44	-51	-53	-52	-39	-	-1	36	52	52	49	49	48	31
58	-4	-16	-33	-46	-52	-52	-48	-34	-	6	43	58	55	48	46	44	29
60	-5	-18	-36	-48	-52	-50	-44	-27	-	14	50	63	57	47	43	40	26
62	-6	-20	-38	-50	-53	-48	-39	-20	-	22	57	68	59	46	39	36	24
64	-7	-21	-40	-53	-53	-45	-33	-12	-	30	63	72	60	44	36	32	21
66	-7	-23	-43	-54	-53	-42	-27	-4	-	36	68	74	61	43	33	28	19
68	-8	-24	-44	-56	-52	-39	-22	2	-	39	69	75	61	41	31	26	17
70	-8	-25	-46	-57	-52	-36	-17	7	-	39	69	74	60	40	29	24	16
72	-8	-26	-46	-57	-50	-32	-13	10	-	37	65	71	57	38	27	23	16
74	-8	-25	-46	-55	-47	-28	-10	10	-	32	60	67	54	36	26	23	16
76	-8	-25	-44	-52	-43	-24	-8	7	-	26	53	61	50	33	24	22	16
78	-8	-23	-41	-47	-37	-19	-6	2	-	20	46	55	45	29	22	22	16
80	-8	-22	-36	-40	-28	-12	-4	-3	-	15	41	50	40	25	19	22	17

FEBRUARY

18	3	7	11	12	7	0	-5	-1	-	3	16	22	21	19	17	14	9
20	3	6	9	8	3	-5	-10	-6	-	0	11	15	17	18	19	18	11
22	2	5	7	5	-1	-10	-15	-13	-	-2	6	11	14	18	22	21	13
24	2	4	5	3	-4	-13	-19	-19	-	-3	4	8	12	18	24	25	16
26	2	4	4	0	-7	-15	-22	-23	-	-5	2	7	11	18	26	27	18
28	3	4	2	-2	-9	-18	-25	-27	-	-7	2	8	13	19	27	28	19
30	3	4	1	-4	-11	-19	-27	-30	-	-10	3	11	15	20	27	29	20
32	4	4	0	-6	-12	-21	-30	-33	-	-12	5	15	18	22	27	29	20
34	4	4	-1	-7	-14	-22	-32	-35	-	-15	7	19	22	24	28	30	20
36	5	4	-2	-9	-15	-23	-34	-37	-	-16	10	24	26	26	30	31	21
38	5	4	-3	-10	-16	-25	-35	-38	-	-17	13	29	31	30	32	32	22
40	6	4	-3	-11	-18	-26	-36	-38	-	-17	16	34	36	33	35	34	23
42	6	4	-4	-12	-19	-27	-36	-35	-	-16	20	38	40	38	38	36	24
44	6	4	-4	-13	-21	-28	-36	-31	-	-15	23	42	45	42	41	39	25
46	6	4	-4	-15	-23	-29	-34	-26	-	-12	27	46	49	46	45	41	26
48	6	4	-5	-16	-24	-30	-32	-19	-	-9	31	51	53	50	47	42	26
50	6	4	-6	-17	-26	-31	-30	-12	-	-6	36	55	57	53	49	42	26
52	5	3	-7	-18	-27	-31	-27	-5	-	-2	40	59	60	54	49	41	25
54	5	2	-8	-20	-28	-30	-25	1	-	2	45	63	63	55	47	39	23
56	4	1	-10	-21	-28	-29	-22	5	-	6	50	67	65	54	44	35	21
58	3	-1	-12	-23	-28	-27	-19	8	-	10	54	71	66	53	40	30	17
60	2	-3	-15	-24	-28	-25	-16	10	-	15	59	74	67	50	35	24	14
62	1	-6	-18	-26	-27	-22	-13	10	-	19	62	77	68	48	30	19	10
64	-1	-8	-21	-28	-26	-19	-10	10	-	23	64	79	68	45	25	14	7
66	-2	-11	-23	-29	-25	-15	-7	9	-	26	65	79	67	42	21	9	4
68	-3	-13	-26	-30	-23	-12	-3	8	-	28	65	79	66	40	18	6	2
70	-4	-15	-28	-31	-21	-8	-1	7	-	27	63	77	65	38	15	4	2
72	-4	-16	-28	-30	-19	-5	1	5	-	24	59	74	62	35	13	3	1
74	-5	-16	-28	-29	-17	-2	2	2	-	17	54	70	58	32	11	3	2
76	-5	-16	-27	-27	-13	0	1	-1	-	8	48	66	54	28	9	3	2
78	-5	-15	-24	-23	-9	2	-1	-5	-	-2	42	62	50	24	6	2	3
80	-5	-14	-21	-17	-3	5	-2	-8	-	-11	38	58	45	19	3	3	4

ZONAL MEAN GEOSTROPHIC W-E WIND (M/S)

KM LAT = -80 -70 -60 -50 -40 -30 -20 -10 0 10 20 30 40 50 60 70 80 DEG

MARCH

18	7	13	16	15	10	2	-3	-3	-	10	15	15	14	13	15	15	10
20	7	12	15	13	6	-2	-8	-8	-	4	9	11	11	12	14	15	10
22	7	13	14	11	3	-5	-12	-13	-	1	5	8	9	11	14	15	10
24	8	13	13	9	2	-7	-14	-18	-	-2	3	7	9	11	14	15	10
26	9	14	13	9	1	-8	-16	-21	-	-4	2	7	10	12	14	14	9
28	10	15	14	8	1	-7	-16	-24	-	-6	2	9	12	13	13	12	8
30	11	16	14	9	2	-7	-16	-25	-	-7	3	12	16	15	13	12	7
32	12	18	15	9	2	-6	-16	-25	-	-8	5	16	19	17	14	11	7
34	13	19	17	11	3	-5	-14	-24	-	-7	7	19	23	20	16	12	7
36	14	21	19	12	4	-4	-13	-21	-	-5	10	22	26	23	18	13	7
38	16	23	21	14	5	-3	-11	-17	-	-2	13	25	29	27	21	15	8
40	17	26	24	15	6	-2	-8	-12	-	2	16	27	32	30	25	18	9
42	18	28	26	17	7	-1	-5	-5	-	8	20	29	34	33	28	20	11
44	20	30	29	19	7	0	-1	3	-	14	24	31	36	36	31	23	12
46	21	33	31	20	7	0	2	12	-	21	28	33	37	38	34	26	14
48	22	34	33	21	7	1	6	21	-	27	32	35	38	40	37	27	15
50	22	35	35	22	7	1	9	29	-	33	36	37	39	41	38	28	15
52	22	36	36	23	7	1	12	35	-	38	40	39	40	42	38	28	15
54	22	35	36	23	8	2	14	40	-	42	43	40	41	42	38	27	14
56	21	34	35	23	8	3	16	43	-	45	45	42	42	42	37	26	13
58	20	32	34	23	9	5	17	43	-	46	47	43	42	42	36	25	12
60	18	30	32	23	11	7	18	41	-	47	47	44	43	41	35	23	11
62	16	27	29	22	13	10	19	37	-	47	47	45	44	41	33	22	10
64	15	24	26	21	15	13	20	31	-	45	46	45	44	41	32	21	10
66	13	21	23	20	17	17	21	25	-	42	44	45	45	40	32	21	10
68	12	19	19	18	19	21	22	17	-	38	40	45	45	39	31	21	11
70	11	16	16	17	21	25	22	9	-	32	36	43	44	38	30	22	12
72	11	15	13	15	23	28	22	2	-	24	31	41	43	37	30	23	13
74	11	13	11	14	24	30	21	-4	-	15	26	38	41	35	29	24	15
76	10	12	9	13	24	30	18	-8	-	5	20	35	38	32	28	25	16
78	10	12	8	12	23	29	16	-10	-	-5	15	32	35	29	27	26	18
80	10	11	8	11	23	28	15	-10	-	-11	13	31	32	26	25	27	19

APRIL

18	7	14	19	20	16	9	3	-1	-	13	12	12	10	6	2	-1	-1
20	10	17	20	18	12	5	-2	-7	-	7	7	8	7	4	1	-2	-2
22	12	21	22	18	10	2	-5	-13	-	1	3	5	5	3	-1	-2	-2
24	15	24	24	18	10	1	-8	-17	-	-4	0	5	5	2	-2	-3	-2
26	18	28	27	20	12	2	-9	-21	-	-8	-1	6	6	2	-3	-4	-3
28	20	31	30	23	14	4	-8	-23	-	-10	-1	8	8	3	-3	-5	-3
30	21	33	33	27	18	8	-7	-23	-	-11	0	9	10	4	-2	-4	-3
32	22	35	37	31	23	11	-3	-20	-	-9	2	11	11	5	-1	-3	-2
34	23	38	41	36	27	16	1	-15	-	-5	4	12	13	7	1	-1	-1
36	24	40	44	41	32	20	6	-8	-	-1	6	12	13	9	4	1	0
38	25	42	49	46	37	24	12	1	-	5	8	12	14	11	7	4	1
40	25	44	53	51	41	29	18	10	-	11	11	12	13	13	10	6	3
42	26	46	57	56	45	32	24	20	-	18	13	11	13	15	14	9	4
44	26	48	60	60	49	36	29	29	-	24	15	10	12	16	16	12	6
46	26	49	64	64	53	39	34	37	-	29	17	9	11	17	19	14	7
48	26	50	66	68	56	42	38	44	-	34	19	9	10	17	20	15	8
50	25	50	68	71	58	44	41	49	-	38	20	8	9	18	21	16	8
52	24	49	69	72	61	46	44	52	-	42	21	7	8	18	22	17	8
54	23	48	68	74	62	48	45	53	-	44	21	6	8	17	22	17	8
56	21	45	67	74	64	49	45	52	-	45	21	5	7	17	22	17	8
58	18	42	65	74	65	50	45	50	-	45	20	5	6	17	22	17	8
60	16	39	62	73	65	51	44	45	-	43	18	4	6	16	21	17	8
62	13	35	59	71	66	52	43	39	-	38	15	3	6	16	21	17	8
64	11	32	55	69	66	53	41	32	-	31	11	2	6	16	20	16	8
66	10	28	51	66	66	54	38	23	-	22	6	1	6	15	19	16	8
68	9	25	47	63	66	54	35	12	-	10	1	0	7	14	18	16	9
70	8	23	43	60	65	54	31	2	-	-2	-6	0	7	13	17	15	9
72	8	21	39	56	63	53	26	-9	-	-15	-12	-1	7	12	15	15	10
74	7	18	34	51	60	51	22	-18	-	-26	-17	-2	7	11	13	14	10
76	7	16	30	47	57	48	18	-23	-	-34	-21	-4	6	9	12	14	10
78	6	13	26	42	53	45	15	-25	-	-37	-22	-5	5	8	11	14	11
80	5	11	22	37	49	43	15	-23	-	-37	-21	-4	4	7	11	15	11

ZONAL MEAN GEOSTROPHIC W-E WIND (M/S)

KM LAT =	-80	-70	-60	-50	-40	-30	-20	-10	0	10	20	30	40	50	60	70	80 DEG
MAY																	
18	14	21	22	20	18	16	10	1	-	3	5	8	7	3	0	-1	0
20	17	27	27	21	16	11	5	-3	-	-2	1	4	3	0	-2	-2	-1
22	21	33	33	24	15	8	2	-6	-	-6	-3	1	1	-1	-3	-3	-1
24	25	40	39	28	16	7	0	-7	-	-11	-6	-1	0	-1	-3	-3	-2
26	28	44	45	33	19	8	-1	-8	-	-14	-7	-1	0	-2	-4	-4	-3
28	30	48	50	39	25	11	0	-7	-	-15	-7	-1	0	-2	-4	-5	-3
30	31	50	54	46	31	16	3	-5	-	-15	-7	-1	1	-2	-5	-5	-3
32	31	51	58	52	39	23	8	-2	-	-13	-6	-1	0	-2	-5	-6	-4
34	31	52	61	58	47	31	14	3	-	-11	-5	-1	0	-2	-5	-5	-4
36	30	52	63	64	56	39	21	8	-	-7	-4	-2	-1	-2	-4	-5	-3
38	28	51	66	70	64	48	29	13	-	-5	-4	-3	-2	-3	-4	-4	-3
40	27	51	68	76	72	57	37	18	-	-3	-4	-4	-4	-4	-4	-4	-2
42	26	51	71	81	80	65	44	23	-	-1	-5	-6	-5	-4	-4	-3	-2
44	25	50	72	86	87	73	51	27	-	-1	-7	-8	-7	-5	-4	-3	-2
46	24	50	74	90	93	80	56	29	-	-2	-9	-10	-8	-6	-4	-2	-1
48	24	50	75	93	98	86	61	31	-	-2	-11	-12	-10	-7	-4	-3	-1
50	23	49	75	94	101	91	66	32	-	-3	-13	-14	-11	-8	-5	-3	-1
52	23	48	74	95	104	96	70	32	-	-3	-15	-15	-12	-9	-6	-4	-2
54	23	47	73	94	105	99	73	31	-	-3	-16	-17	-13	-10	-7	-5	-2
56	23	46	70	92	105	101	75	30	-	-3	-18	-18	-14	-11	-9	-6	-3
58	23	45	67	89	103	102	77	29	-	-3	-19	-19	-15	-12	-10	-7	-3
60	23	44	64	85	101	103	77	26	-	-5	-21	-19	-15	-13	-12	-8	-4
62	23	43	61	81	99	101	76	23	-	-10	-23	-20	-15	-15	-14	-10	-5
64	24	42	58	77	95	99	73	19	-	-16	-26	-19	-15	-16	-15	-11	-5
66	24	42	55	72	91	95	67	13	-	-26	-29	-19	-15	-17	-17	-13	-6
68	25	41	52	68	86	89	60	7	-	-38	-32	-18	-14	-18	-19	-14	-6
70	26	41	49	63	81	82	51	0	-	-51	-35	-17	-13	-19	-21	-14	-6
72	26	40	46	59	74	73	41	-6	-	-64	-38	-15	-12	-20	-22	-15	-5
74	26	39	43	53	67	64	32	-12	-	-75	-39	-13	-11	-20	-23	-15	-5
76	25	37	39	48	60	56	24	-15	-	-82	-39	-11	-10	-21	-24	-14	-4
78	24	34	35	42	53	48	18	-16	-	-84	-36	-8	-8	-20	-23	-13	-3
80	23	31	31	37	47	43	15	-12	-	-82	-30	-3	-6	-18	-21	-11	-2
JUNE																	
18	17	27	27	23	20	19	15	3	-	2	-2	1	3	2	0	-1	-1
20	21	34	35	27	19	14	9	-1	-	-1	-5	-4	-2	-1	-2	-3	-2
22	26	42	44	34	21	11	4	-2	-	-5	-8	-7	-4	-3	-4	-4	-3
24	30	50	53	42	24	9	1	-3	-	-10	-10	-9	-6	-5	-5	-5	-4
26	34	56	61	50	30	11	0	-2	-	-13	-12	-10	-7	-6	-6	-4	-4
28	36	61	68	58	37	15	1	-1	-	-16	-12	-11	-8	-7	-7	-7	-5
30	38	64	73	65	45	22	5	0	-	-17	-13	-11	-9	-8	-8	-8	-5
32	39	67	77	71	53	31	12	2	-	-18	-14	-12	-11	-10	-10	-9	-5
34	39	68	79	76	62	42	20	3	-	-18	-15	-13	-12	-12	-11	-9	-5
36	40	68	80	80	71	54	30	5	-	-18	-17	-15	-14	-14	-13	-9	-5
38	40	68	81	83	79	66	40	6	-	-18	-19	-16	-16	-17	-15	-10	-4
40	40	67	81	87	88	78	50	6	-	-19	-22	-19	-18	-20	-17	-10	-3
42	40	67	81	89	96	89	59	6	-	-21	-26	-21	-20	-22	-19	-10	-3
44	40	67	81	92	103	100	66	5	-	-23	-29	-23	-23	-25	-21	-10	-2
46	40	66	80	94	109	108	73	4	-	-26	-32	-26	-25	-27	-23	-11	-2
48	41	66	80	95	113	115	78	2	-	-29	-36	-28	-27	-30	-25	-12	-2
50	41	66	79	95	117	120	81	0	-	-32	-39	-29	-28	-32	-27	-13	-2
52	41	65	77	95	118	124	84	-1	-	-35	-41	-31	-30	-34	-29	-14	-2
54	41	64	75	93	118	126	86	-3	-	-36	-43	-32	-31	-36	-31	-15	-3
56	41	63	72	89	117	127	87	-4	-	-37	-45	-33	-32	-37	-33	-17	-3
58	41	62	69	85	115	127	88	-4	-	-38	-46	-34	-33	-39	-35	-18	-4
60	41	61	65	81	111	125	87	-5	-	-38	-46	-35	-34	-41	-37	-20	-5
62	42	60	62	76	107	122	85	-6	-	-39	-47	-35	-35	-43	-39	-21	-6
64	42	59	59	71	102	117	81	-7	-	-41	-47	-35	-36	-45	-41	-23	-6
66	42	58	56	67	96	110	75	-9	-	-43	-46	-35	-37	-46	-43	-24	-7
68	41	57	54	62	89	101	67	-12	-	-47	-46	-34	-37	-47	-44	-25	-8
70	41	56	52	58	82	91	57	-15	-	-52	-45	-32	-37	-48	-45	-26	-8
72	40	55	50	54	74	80	47	-18	-	-58	-44	-30	-36	-48	-46	-27	-8
74	40	53	48	50	65	69	37	-20	-	-64	-42	-27	-34	-48	-46	-27	-8
76	39	52	44	44	57	59	29	-21	-	-69	-39	-22	-31	-46	-45	-26	-8
78	38	49	40	39	50	51	23	-21	-	-72	-34	-15	-26	-43	-43	-25	-8
80	36	46	37	34	44	45	19	-18	-	-72	-27	-7	-19	-38	-39	-23	-7

ZONAL MEAN GEOSTROPHIC W-E WIND (M/S)

KM LAT = -80 -70 -60 -50 -40 -30 -20 -10 0 10 20 30 40 50 60 70 80 DEG

JULY

18	16	28	34	32	26	20	15	6	-	6	-4	-5	-1	2	2	-1	-2
20	21	37	44	39	26	14	8	4	-	3	-7	-9	-6	-1	-1	-2	-3
22	26	47	56	49	29	10	3	4	-	-2	-9	-12	-8	-3	-2	-4	-4
24	31	56	68	59	33	8	-2	4	-	-6	-11	-14	-11	-5	-3	-5	-5
26	35	64	77	69	40	8	-5	3	-	-10	-12	-16	-12	-6	-5	-6	-6
28	37	68	85	78	47	11	-6	2	-	-12	-13	-17	-14	-8	-6	-7	-6
30	38	72	90	85	54	16	-5	1	-	14	-14	-18	-16	-10	-7	-8	-7
32	38	73	94	90	61	23	-1	0	-	-14	-16	-20	-18	-12	-9	-9	-7
34	39	74	96	93	67	31	5	0	-	-15	-17	-21	-20	-14	-10	-9	-6
36	39	75	97	96	72	39	11	0	-	-15	-19	-23	-22	-17	-12	-9	-6
38	40	76	97	97	77	47	19	1	-	-15	-21	-26	-25	-20	-14	-9	-5
40	42	77	98	98	81	55	26	1	-	-15	-24	-28	-28	-23	-16	-9	-4
42	43	78	98	99	85	62	32	1	-	-15	-26	-30	-31	-26	-19	-10	-3
44	45	80	98	99	89	68	37	0	-	-15	-28	-33	-33	-29	-21	-10	-3
46	46	81	97	100	92	73	42	-2	-	-15	-30	-35	-36	-32	-23	-11	-3
48	47	81	97	100	95	78	45	-4	-	-15	-32	-37	-38	-35	-25	-12	-3
50	47	80	95	99	96	81	48	-5	-	-15	-33	-38	-40	-37	-27	-13	-3
52	47	79	93	98	97	84	50	-7	-	-15	-34	-39	-41	-39	-29	-15	-4
54	46	76	89	95	97	86	53	-7	-	-14	-34	-39	-42	-42	-32	-16	-5
56	45	73	85	91	95	88	55	-6	-	-13	-34	-39	-43	-44	-34	-18	-5
58	43	70	80	86	93	89	58	-4	-	-12	-33	-38	-44	-46	-37	-20	-6
60	42	67	75	80	89	89	61	0	-	-10	-31	-37	-45	-48	-40	-22	-7
62	41	64	69	74	85	88	63	5	-	-8	-29	-36	-45	-51	-43	-24	-8
64	40	61	64	69	81	86	64	10	-	-5	-25	-34	-46	-53	-45	-26	-9
66	39	58	60	64	76	83	64	14	-	-3	-22	-32	-46	-55	-48	-28	-10
68	38	56	56	59	71	78	62	17	-	-1	-18	-30	-46	-56	-50	-30	-11
70	37	54	54	55	66	73	57	19	-	-1	-15	-27	-45	-57	-51	-31	-11
72	36	52	51	52	61	66	52	18	-	-3	-12	-24	-43	-56	-51	-32	-12
74	35	50	49	48	55	59	45	16	-	-6	-10	-21	-40	-54	-50	-32	-13
76	34	47	46	43	49	52	39	12	-	-12	-9	-16	-35	-50	-48	-32	-13
78	34	48	43	38	43	46	33	9	-	-18	-8	-11	-28	-44	-45	-31	-14
80	34	47	40	34	38	41	29	7	-	-24	-6	-3	-19	-36	-40	-30	-14

AUGUST

18	14	25	29	28	26	22	16	1	-	7	-3	-4	0	4	4	2	0
20	22	38	43	36	25	16	9	-2	-	1	-8	-7	-3	1	2	1	0
22	31	53	58	45	25	10	3	-4	-	-5	-11	-10	-5	-1	0	0	-1
24	40	67	72	54	27	7	-2	-5	-	-10	-14	-12	-7	-2	0	-1	-1
26	48	78	83	63	31	5	-6	-6	-	-13	-15	-14	-9	-3	-1	-2	-2
28	53	86	91	69	34	5	-8	-7	-	-15	-15	-15	-10	-4	-2	-2	-2
30	56	91	96	73	38	7	-8	-8	-	-15	-16	-16	-11	-6	-3	-2	-2
32	58	94	98	75	41	11	-5	-9	-	-15	-16	-16	-13	-7	-4	-2	-1
34	59	96	99	76	43	16	-1	-9	-	-14	-17	-17	-14	-9	-5	-2	0
36	61	97	98	75	45	21	4	-9	-	-13	-18	-18	-16	-11	-6	-1	0
38	62	98	97	73	46	26	10	-8	-	-11	-19	-19	-17	-13	-7	-1	1
40	65	100	96	70	47	32	17	-7	-	-9	-19	-20	-19	-15	-8	-1	2
42	67	102	94	68	48	38	24	-6	-	-5	-19	-21	-21	-17	-10	0	3
44	70	103	93	66	49	43	31	-4	-	-1	-19	-22	-22	-19	-11	0	4
46	71	103	91	64	50	49	38	-2	-	4	-18	-22	-24	-21	-12	0	4
48	72	102	88	62	52	54	44	-1	-	10	-17	-23	-25	-23	-13	0	5
50	71	99	84	60	54	59	49	1	-	15	-15	-23	-26	-24	-14	-1	5
52	69	95	80	58	55	64	54	2	-	20	-13	-22	-26	-26	-16	-2	4
54	66	90	75	56	57	68	59	4	-	23	-12	-21	-27	-27	-17	-3	4
56	62	84	69	53	58	71	63	6	-	25	-10	-20	-27	-29	-20	-5	3
58	59	79	64	50	58	75	67	9	-	26	-8	-18	-26	-30	-22	-7	2
60	55	73	58	46	58	77	70	13	-	24	-7	-16	-26	-32	-25	-9	1
62	52	68	53	43	57	78	72	18	-	22	-5	-13	-25	-33	-28	-12	0
64	50	64	49	39	56	79	74	22	-	19	-3	-10	-24	-35	-31	-15	-2
66	47	60	45	37	55	79	74	27	-	15	0	-7	-23	-36	-34	-17	-3
68	45	57	42	35	53	77	72	30	-	10	2	-4	-21	-37	-36	-20	-5
70	43	55	40	34	51	74	69	31	-	5	3	0	-19	-37	-38	-22	-6
72	42	53	39	32	49	70	64	29	-	-1	4	3	-16	-36	-38	-23	-7
74	41	52	37	30	46	65	58	25	-	-8	4	6	-13	-34	-38	-24	-8
76	41	51	36	27	42	59	51	17	-	-17	1	8	-8	-30	-36	-24	-9
78	42	52	34	23	37	54	44	8	-	-25	-2	11	-3	-26	-34	-24	-10
80	44	52	31	19	32	50	39	1	-	-34	-4	15	4	-19	-30	-24	-11

ZONAL MEAN GEOSTROPHIC W-E WIND (M/S)

KN LAT = -80 -70 -60 -50 -40 -30 -20 -10 0 10 20 30 40 50 60 70 80 DEG

SEPTEMBER

18	9	23	36	40	31	16	5	-1	-	5	1	1	6	10	9	5	1
20	19	37	47	43	27	10	0	-5	-	0	-4	-3	3	8	8	5	1
22	29	52	59	46	24	5	-4	-7	-	-4	-8	-6	1	6	7	5	2
24	38	64	68	49	22	2	-6	-8	-	-7	-9	-7	-1	5	7	5	2
26	45	73	74	52	22	0	-8	-7	-	-8	-9	-7	-1	4	7	5	2
28	50	79	77	54	23	1	-8	-6	-	-8	-8	-6	-1	4	7	6	3
30	52	80	78	54	25	3	-6	-6	-	-7	-7	-5	-1	4	8	7	4
32	52	79	76	53	26	7	-3	-6	-	-6	-6	-4	0	5	8	9	6
34	51	77	73	51	28	11	2	-5	-	-3	-5	-3	0	5	9	11	8
36	49	74	69	48	29	17	7	-5	-	0	-3	-2	1	5	11	13	10
38	48	71	64	45	31	23	13	-4	-	3	-2	0	2	6	12	16	12
40	48	69	60	43	32	28	20	-2	-	8	0	1	3	7	14	19	14
42	47	66	57	40	34	34	27	0	-	13	2	2	4	8	16	22	16
44	46	64	54	38	35	39	34	3	-	19	5	3	4	9	18	25	18
46	44	61	51	37	37	44	40	7	-	26	8	5	5	10	20	27	20
48	42	57	48	37	39	49	45	11	-	32	10	6	5	10	22	29	22
50	39	53	45	36	42	53	49	14	-	37	13	7	6	11	23	30	23
52	35	48	41	36	44	56	53	17	-	41	15	7	6	12	23	31	23
54	31	42	38	36	46	59	55	18	-	43	16	8	7	12	23	30	23
56	27	37	34	35	48	61	57	19	-	44	17	9	8	12	22	29	22
58	23	32	31	34	49	63	57	19	-	42	17	11	9	12	21	27	20
60	20	28	28	33	50	64	57	19	-	38	17	12	10	12	19	25	19
62	18	24	25	32	50	64	56	18	-	33	17	15	12	12	17	22	17
64	16	22	22	31	50	64	54	17	-	26	17	17	14	11	14	19	15
66	15	20	20	30	49	62	51	16	-	17	17	20	16	10	12	16	13
68	14	18	19	29	48	59	47	14	-	8	17	23	18	10	9	14	12
70	13	18	19	28	46	56	41	11	-	-1	16	27	20	9	7	11	11
72	13	18	18	27	44	51	34	7	-	-11	15	29	22	8	5	10	10
74	14	18	17	25	41	46	27	0	-	-21	13	31	23	8	3	9	10
76	15	19	16	22	37	41	20	-8	-	-30	10	31	24	7	2	8	10
78	17	20	15	18	33	37	14	-16	-	-39	7	31	24	7	1	8	10
80	19	21	13	15	29	34	11	-22	-	-45	4	31	25	7	1	8	10

OCTOBER

18	11	22	28	27	19	9	1	-2	-	-3	3	9	13	15	14	10	5
20	17	30	33	26	14	3	-4	-7	-	-7	-1	5	10	13	13	10	6
22	24	39	39	26	11	0	-7	-10	-	-9	-4	3	8	12	13	11	7
24	30	47	43	26	9	-2	-9	-13	-	-11	-5	2	8	11	13	13	8
26	35	52	45	26	9	-2	-9	-15	-	-12	-4	4	9	12	15	15	10
28	38	54	45	25	9	0	-7	-16	-	-12	-3	7	11	13	16	17	12
30	38	53	43	24	11	3	-5	-16	-	-12	0	10	14	15	19	20	14
32	38	51	40	22	12	7	-1	-14	-	-9	4	15	17	18	22	24	17
34	36	47	36	20	13	11	3	-12	-	-5	9	19	21	21	25	28	20
36	33	43	31	18	14	15	7	-9	-	0	14	24	24	24	29	33	23
38	31	38	27	15	15	18	12	-6	-	6	19	28	28	28	34	38	26
40	28	34	23	13	16	22	16	-3	-	13	24	32	31	31	39	43	30
42	25	30	19	12	17	25	20	1	-	20	29	36	34	35	44	48	33
44	22	26	16	10	17	27	23	4	-	27	34	39	37	39	48	52	36
46	20	23	14	10	18	28	26	7	-	33	38	42	40	43	52	56	38
48	17	20	12	9	19	30	28	9	-	38	41	44	43	46	55	59	40
50	15	17	10	9	19	30	29	12	-	41	43	46	45	48	57	60	40
52	12	14	9	8	20	31	30	13	-	43	45	48	47	50	59	60	40
54	10	11	8	9	20	31	30	14	-	43	45	49	49	52	59	59	39
56	8	9	6	9	20	31	30	14	-	42	45	49	50	53	58	56	37
58	6	7	5	9	21	31	28	13	-	39	44	50	51	53	56	53	35
60	5	5	3	8	21	30	26	10	-	34	42	51	52	52	53	50	32
62	4	4	2	8	21	29	23	5	-	28	40	51	53	51	50	46	30
64	4	2	1	7	20	28	19	-2	-	21	37	52	54	50	47	42	27
66	4	2	0	6	20	26	14	-11	-	11	34	53	55	48	43	39	25
68	4	1	-1	5	19	24	8	-21	-	1	31	53	55	46	39	35	23
70	4	1	-2	4	19	22	1	-31	-	-10	27	53	55	43	35	32	22
72	5	1	-3	3	17	18	-6	-41	-	-21	22	53	54	40	31	29	20
74	5	2	-4	1	15	15	-12	-49	-	-30	18	51	52	37	28	27	20
76	6	2	-5	-1	12	12	-16	-53	-	-38	15	49	50	34	24	24	19
78	7	3	-5	-3	10	10	-17	-53	-	-42	13	47	47	30	21	22	18
80	8	4	-6	-4	8	10	-15	-49	-	-42	13	45	44	26	18	20	17

ZONAL MEAN GEOSTROPHIC W-E WIND (M/S)

KM LAT = -80 -70 -60 -50 -40 -30 -20 -10 0 10 20 30 40 50 60 70 80 DEG

NOVEMBER

18	12	19	20	17	12	5	-5	-14	-	-3	7	16	18	16	14	12	7
20	12	18	17	12	7	0	-7	-14	-	-6	3	11	15	15	15	13	8
22	12	17	15	9	3	-3	-9	-15	-	-6	1	8	13	16	17	15	9
24	11	16	12	6	0	-4	-9	-16	-	-6	0	8	13	17	19	18	11
26	11	14	9	2	-1	-4	-9	-17	-	-5	1	10	15	19	22	22	14
28	11	12	6	-1	-3	-3	-7	-17	-	-4	4	13	19	22	26	25	16
30	10	10	2	-4	-4	-2	-6	-16	-	-2	9	19	23	26	29	29	19
32	10	9	-1	-7	-5	-1	-5	-15	-	1	15	25	29	30	33	33	21
34	9	7	-4	-10	-6	-1	-4	-13	-	4	21	33	35	35	37	37	24
36	8	5	-6	-12	-8	-1	-3	-11	-	9	29	41	42	40	41	40	26
38	8	4	-8	-14	-9	-2	-3	-10	-	14	36	48	48	45	45	43	28
40	7	3	-10	-16	-11	-4	-4	-10	-	18	42	56	55	50	49	46	30
42	6	1	-11	-18	-13	-5	-6	-11	-	22	48	63	61	55	53	49	31
44	6	1	-12	-19	-14	-8	-8	-13	-	25	53	68	67	60	56	51	32
46	5	0	-13	-20	-16	-10	-11	-16	-	27	57	73	72	63	58	52	33
48	4	-1	-14	-21	-17	-12	-14	-19	-	27	60	78	76	66	60	52	33
50	4	-3	-15	-21	-18	-14	-17	-22	-	28	62	81	79	68	60	52	33
52	3	-4	-16	-22	-19	-15	-19	-24	-	27	63	83	81	69	60	51	32
54	2	-5	-17	-22	-19	-17	-21	-26	-	27	65	85	82	68	58	50	31
56	0	-7	-18	-23	-20	-18	-23	-28	-	26	66	86	82	67	57	48	30
58	-1	-9	-19	-23	-20	-19	-25	-29	-	25	67	87	82	66	54	46	29
60	-2	-11	-21	-24	-20	-19	-27	-31	-	24	67	88	81	64	52	44	28
62	-3	-12	-22	-24	-20	-20	-28	-34	-	22	67	88	80	61	49	42	27
64	-4	-14	-23	-25	-19	-20	-30	-38	-	19	65	87	78	59	47	41	27
66	-5	-15	-25	-25	-19	-19	-33	-44	-	14	62	85	76	56	44	40	26
68	-5	-16	-26	-26	-18	-19	-36	-52	-	8	58	82	74	53	42	39	27
70	-6	-17	-27	-26	-17	-18	-38	-60	-	2	52	79	71	50	39	38	27
72	-5	-17	-28	-26	-16	-17	-40	-67	-	-6	45	74	67	46	37	37	27
74	-5	-17	-29	-27	-16	-16	-41	-73	-	-12	39	68	62	42	34	37	28
76	-4	-16	-29	-27	-15	-15	-40	-75	-	-18	33	62	57	38	32	36	28
78	-3	-15	-27	-26	-14	-12	-37	-73	-	-20	29	57	52	34	29	34	27
80	-2	-12	-25	-24	-12	-8	-30	-65	-	-19	28	54	47	29	26	33	27

DECEMBER

18	2	5	8	12	12	6	-5	-15	-	0	11	19	20	19	17	15	9
20	1	3	5	6	6	1	-7	-14	-	-1	8	14	17	18	20	19	12
22	0	1	1	2	1	-3	-9	-15	-	0	6	11	15	19	24	24	15
24	0	-1	-2	-2	-3	-5	-10	-16	-	2	5	9	14	21	29	30	19
26	-1	-3	-5	-6	-6	-7	-12	-18	-	4	5	9	14	24	35	36	23
28	-2	-5	-8	-9	-9	-9	-13	-20	-	5	7	10	17	28	40	42	27
30	-2	-6	-10	-12	-11	-12	-15	-21	-	6	9	13	21	32	44	46	30
32	-3	-8	-13	-15	-14	-14	-17	-23	-	6	12	18	26	37	49	50	32
34	-3	-9	-15	-17	-17	-16	-19	-25	-	5	15	24	33	43	53	53	34
36	-3	-9	-16	-20	-19	-19	-22	-27	-	4	18	31	41	49	57	54	35
38	-3	-10	-18	-22	-22	-22	-26	-31	-	2	21	39	49	56	60	56	35
40	-4	-11	-19	-24	-25	-26	-30	-35	-	-1	24	46	57	63	63	56	35
42	-4	-11	-21	-26	-27	-29	-35	-41	-	-4	26	52	66	69	67	57	34
44	-4	-12	-22	-28	-30	-32	-39	-47	-	-8	27	58	73	75	69	57	33
46	-4	-13	-24	-30	-32	-35	-44	-53	-	-12	28	63	80	80	72	57	32
48	-4	-14	-25	-32	-34	-38	-48	-59	-	-15	29	67	85	84	73	57	32
50	-5	-15	-27	-34	-35	-40	-52	-64	-	-18	31	71	89	86	74	56	31
52	-5	-16	-29	-35	-37	-42	-55	-68	-	-19	33	75	91	87	73	55	31
54	-6	-17	-30	-37	-38	-43	-57	-70	-	-18	37	79	93	86	72	54	30
56	-7	-19	-32	-38	-38	-43	-58	-70	-	-17	42	83	93	84	69	52	30
58	-8	-21	-34	-40	-39	-43	-58	-69	-	-14	48	87	93	80	65	50	29
60	-8	-22	-36	-41	-39	-43	-58	-66	-	-10	54	91	93	76	61	48	29
62	-9	-24	-38	-42	-39	-42	-56	-62	-	-6	60	94	92	72	56	46	28
64	-10	-25	-40	-44	-39	-41	-54	-58	-	-3	64	97	90	68	52	44	28
66	-10	-26	-41	-45	-39	-40	-51	-54	-	-1	67	98	88	64	48	42	28
68	-11	-27	-43	-45	-39	-38	-49	-51	-	-1	67	96	85	60	45	40	28
70	-11	-28	-44	-46	-38	-35	-46	-49	-	-1	64	93	82	56	42	39	28
72	-11	-28	-44	-46	-36	-33	-43	-48	-	-3	60	88	77	52	39	38	28
74	-11	-28	-44	-45	-34	-29	-40	-48	-	-5	54	81	71	47	37	37	27
76	-10	-27	-42	-43	-32	-25	-36	-49	-	-6	47	74	65	43	34	36	27
78	-9	-25	-40	-40	-27	-19	-31	-48	-	-6	42	66	58	38	31	34	26
80	-9	-23	-36	-35	-21	-12	-23	-44	-	-4	39	61	53	34	28	32	25

TEMPERATURE - (ZONAL MEAN TEMPERATURE) (K)

APRIL

18	2	2	1	0	0	0	0	1	1	0	0	0	0	1	1	0	-1	0	0	0	0	0	-1	-1	0	0	0	
20	2	2	0	0	0	0	0	2	2	0	-1	0	0	1	1	-1	-1	-1	0	0	0	0	-1	-1	-1	0	0	
24	2	1	0	-1	-1	0	0	1	1	-1	-2	-1	0	0	0	-2	-2	-1	0	0	0	-1	-1	-2	-1	0	0	
28	0	0	-1	-2	-1	0	0	0	-1	-2	-3	-1	0	0	-1	-2	-3	-3	-1	0	0	-1	-2	-3	-2	-1	0	0
32	-1	-2	-3	-2	0	0	0	-1	-3	-4	-3	-2	0	0	-1	-3	-4	-3	-1	0	0	-1	-2	-2	-2	-1	0	0
36	-2	-3	-3	-3	-1	-1	0	-3	-4	-4	-3	-1	0	0	-2	-3	-3	-2	-1	0	0	-1	-2	-2	-1	0	0	0
40	-2	-3	-3	-2	-1	0	0	-2	-4	-3	-2	-1	0	0	-2	-3	-2	-1	-1	0	0	-1	-1	-1	0	0	0	0
44	-2	-2	-2	-1	-1	0	0	-2	-3	-2	-1	0	0	0	-2	-2	-2	-1	0	0	0	-1	-1	0	0	0	0	0
48	-1	-2	-2	-2	-1	0	0	-2	-3	-2	-1	0	0	0	-2	-2	-1	-1	0	0	0	-1	-1	0	0	0	0	0
52	-2	-3	-3	-2	-1	0	0	-2	-3	-2	-1	0	0	0	-2	-2	-1	0	0	0	0	-1	-1	0	1	0	0	0
56	-2	-3	-3	-2	-1	0	0	-2	-2	-2	-1	0	0	0	-1	-1	0	1	1	1	0	0	0	1	1	1	1	0
60	-2	-2	-2	-1	0	0	0	-2	-1	-1	0	1	1	0	-1	0	0	1	2	1	0	1	1	2	2	1	1	0
64	-2	-1	-1	0	0	1	0	-1	0	0	1	1	1	0	0	1	1	2	2	1	0	1	1	2	2	1	0	0
68	-1	-1	0	0	1	1	1	0	1	1	1	1	1	0	1	1	1	2	2	1	0	2	1	1	2	1	0	0
72	-1	0	0	1	1	1	1	0	1	1	1	1	1	0	1	2	1	1	1	1	0	2	2	1	1	1	0	0
76	0	1	1	1	1	0	1	1	2	1	1	1	1	1	2	2	1	1	1	0	0	2	2	1	1	0	0	0
80	0	1	1	1	1	0	1	1	2	1	1	1	0	1	2	2	1	1	1	0	0	2	2	0	0	0	0	-1

18	2	3	3	1	1	0	0	2	2	1	1	0	0	0	1	0	0	-1	-1	0	0	0	-1	-2	-2	-1	0	0	
20	2	3	3	2	1	0	0	2	2	1	1	0	0	0	1	0	-1	-1	-1	-1	0	0	-2	-3	-2	-2	0	0	
24	2	3	3	2	0	0	0	1	1	1	0	-1	-1	0	0	-1	-2	-2	-1	-1	0	-1	-3	-4	-3	-2	0	1	
28	0	1	2	1	0	-1	-1	-1	-1	0	-1	-1	-1	-1	-2	-3	-3	-3	-2	-1	0	-2	-3	-4	-3	-1	0	1	
32	-1	-1	-1	-1	-1	-1	-1	-2	-3	-2	-2	-2	-2	-1	-2	-3	-3	-3	-2	-1	0	-2	-2	-2	-2	0	1	1	
36	-2	-3	-3	-2	-2	-2	-1	-2	-3	-3	-3	-2	-2	-1	-2	-3	-3	-2	-1	0	0	-2	-1	0	0	1	1	1	
40	-1	-3	-4	-3	-2	-2	-1	-2	-3	-3	-3	-2	-1	-1	-2	-2	-2	-1	0	0	0	-1	-1	1	1	2	1	0	
44	-1	-2	-3	-3	-2	-1	-1	-2	-2	-3	-2	-1	-1	-1	-1	-2	-1	-1	0	0	0	-1	0	0	1	1	1	0	
48	-1	-2	-3	-3	-2	-1	-1	-2	-2	-3	-2	-1	-1	-1	-2	-2	-1	-1	0	-1	0	-1	0	1	1	0	0	0	
52	-1	-3	-3	-2	-1	-1	0	-2	-3	-3	-1	-1	-1	0	-2	-2	-2	0	0	0	0	-1	-1	0	1	1	0	0	
56	-1	-3	-3	-2	-1	0	0	-2	-3	-2	-1	0	1	0	-2	-2	-1	0	1	1	0	-1	-1	1	2	1	1	0	
60	-1	-2	-2	-1	0	1	1	-1	-2	-1	0	1	2	1	-1	-1	0	1	2	2	1	-1	0	1	2	2	1	0	
64	0	-1	-1	0	0	2	1	0	-1	0	1	1	2	1	0	0	0	1	2	2	1	0	0	1	2	1	1	0	
68	0	0	0	0	1	1	1	0	0	1	1	1	2	1	1	1	1	1	1	1	1	1	1	1	2	1	0	0	
72	0	0	1	1	1	1	1	1	1	1	2	1	1	1	0	1	2	2	1	1	0	0	1	2	1	1	1	0	0
76	1	1	2	2	1	1	1	2	2	3	2	1	0	0	2	2	2	1	1	1	-1	2	2	1	1	0	0	-1	0
80	1	2	2	2	1	0	0	2	3	3	2	1	0	0	2	3	3	1	1	-1	-1	2	2	1	0	0	0	0	0

18	1	2	1	1	0	0	0	1	2	1	0	0	-1	0	1	1	0	0	-1	0	0	0	0	-1	-1	0	0	1	
20	2	2	2	1	0	0	0	2	2	1	0	0	-1	0	1	1	0	0	-1	-1	0	0	0	0	-1	-1	0	0	1
24	1	2	1	0	0	0	0	1	1	0	0	-1	-1	0	1	0	0	-1	-1	-1	0	0	-1	0	-2	-1	-1	0	1
28	-1	0	-1	-1	-1	-1	0	-1	-1	-1	-1	-1	0	0	-1	-2	-1	-1	-1	0	0	-1	-2	-2	-1	-1	0	0	
32	-1	-2	-2	-2	-1	0	0	-1	-2	-2	-2	-1	0	0	-1	-2	-2	-1	-1	0	0	-1	-1	-1	-1	-1	0	0	
36	-1	-2	-3	-2	-1	0	0	-1	-2	-3	-2	0	0	0	-1	-2	-2	-1	0	0	0	0	-1	-1	0	0	0	0	
40	-1	-2	-3	-2	-1	0	0	-1	-2	-2	-1	1	1	0	-1	-2	-2	-1	1	0	0	-1	-1	0	0	0	0	-1	
44	-1	-2	-3	-2	-1	0	0	-2	-2	-3	-1	1	1	0	-1	-2	-2	0	1	1	0	-1	-1	0	1	1	0	0	
48	-2	-3	-3	-2	-1	0	0	-2	-3	-3	-1	1	1	0	-1	-2	-2	0	2	1	0	0	-1	0	1	2	1	0	
52	-2	-4	-4	-2	-1	1	1	-2	-3	-3	-1	1	1	1	-1	-2	-1	0	2	1	0	1	0	1	1	2	1	0	
56	-2	-3	-3	-2	0	2	2	-2	-3	-2	-1	1	3	2	0	-1	0	1	2	2	1	1	1	1	2	2	0	-1	
60	-2	-3	-2	-1	1	4	3	-1	-2	-1	0	2	3	2	0	-1	0	1	2	2	0	1	1	2	1	1	-1	-1	
64	-1	-2	-1	0	2	4	3	0	-1	0	1	2	3	2	1	0	1	1	1	1	0	1	1	2	1	0	-1	-1	
68	0	-1	0	0	2	3	2	0	0	1	1	2	2	1	1	1	1	1	1	0	0	1	1	1	1	0	-1	-1	
72	1	1	1	1	2	2	1	1	1	1	1	1	0	1	2	2	1	0	-1	0	1	1	1	0	-1	-1	0	0	
76	1	2	1	1	1	1	-1	2	2	2	1	1	0	-1	1	2	2	1	0	-1	0	0	1	0	-1	-1	0	0	
80	2	2	2	1	1	0	-1	2	3	2	1	0	-1	-1	1	3	2	1	-1	-2	0	0	1	1	0	-1	-1	0	

10	3	4	3	3	2	1	0	3	3	2	1	1	0	0	2	2	1	-1	-1	-1	0	1	1	-1	-2	-2	-1	0
20	3	4	3	2	2	1	0	3	3	1	0	0	0	0	2	2	0	-1	-1	-1	0	0	0	-1	-2	-2	-1	0
24	1	1	0	0	0	0	0	0	0	-2	-3	-2	-1	0	-1	-2	-3	-3	-1	0	-1	-3	-3	-3	-2	-1	0	
28	-2	-3	-5	-5	-3	-2	-1	-3	-4	-6	-7	-5	-2	-1	-3	-5	-5	-5	-4	-2	0	-2	-4	-4	-3	-2	0	
32	-2	-5	-8	-9	-7	-4	-2	-3	-6	-8	-9	-7	-4	-1	-3	-5	-6	-6	-4	-2	0	-2	-4	-3	-2	0	1	
36	-2	-5	-8	-10	-9	-5	-2	-3	-5	-7	-8	-7	-4	-1	-3	-4	-5	-4	-3	-1	0	-2	-3	-2	0	1	1	
40	-1	-4	-6	-7	-6	-4	-1	-2	-4	-5	-5	-4	-2	-1	-2	-3	-4	-2	0	0	0	-2	-2	-1	1	2	2	
44	-1	-3	-4	-4	-3	-2	-1	-1	-3	-4	-2	-1	-1	0	-2	-3	-3	-1	1	1	0	-2	-2	-1	1	2	2	
48	-1	-2	-4	-3	-2	-1	0	-1	-3	-4	-2	0	0	0	-2	-3	-3	-1	1	1	1	-2	-1	-1	1	2	1	
52	-1	-2	-4	-4	-2	0	0	-1	-3	-4	-3	-1	0	0	-2	-2	-3	-1	1	1	1	-1	-1	1	2	2	1	
56	-2	-3	-3	-3	0	0	0	-3	-3	-3	-2	0	1	1	-2	-2	-1	0	1	1	1	-1	0	2	3	3	2	
60	-2	-3	-2	-1	1	2	1	-3	-2	-2	-1	1	2	1	-2	-1	0	1	2	2	1	-1	1	2	4	3	2	
64	-2	-2	-1	0	1	2	1	-2	-2	-1	0	1	2	1	-2	0	1	1	2	1	1	0	1	2	3	2	1	
68	-2	-1	0	0	1	1	1	-2	-1	0	0	1	1	0	-1	1	1	1	1	1	0	0	2	2	2	2	0	
72	-1	-1	0	0	1	1	0	-1	0	1	0	0	1	0	0	1	2	1	0	0	0	1	2	2	1	1	0	
76	0	0	1	0	0	0	0	0	1	1	0	0	0	0	0	2	2	0	0	0	0	1	2	1	0	0	0	
80	0	1	1	0	-1	0	0	0	1	2	0	-1	-1	-1	1	2	2	0	-1	-1	0	1	1	1	-1	-1	0	

S HEMISPHERE

TEMPERATURE - (ZONAL MEAN TEMPERATURE) (K)

LONGITUDE 40 W LONGITUDE 30 W LONGITUDE 0 DEG LONGITUDE 30 E
KN LAT= -80 -70 -60 -50 -40 -30 -20 -80 -70 -60 -50 -40 -30 -20 -80 -70 -60 -50 -40 -30 -20 -80 -70 -60 -50 -40 -30 -20DEG

APRIL

18	-1	-1	-1	-1	0	0	0	-1	-2	-1	-1	0	0	0	0	-1	-2	-1	0	0	0	0	-1	-1	0	1	0	0	0	
20	-1	-2	-2	-1	0	0	0	-1	-2	-1	-1	0	0	0	0	-2	-2	-1	0	0	0	0	-1	-1	0	1	0	0	0	
24	-1	-2	-2	-1	0	0	0	-2	-2	-1	0	0	0	0	0	-1	-1	0	1	1	0	0	-1	0	1	2	1	0	0	
28	-1	-1	-2	-1	0	0	0	-1	-1	0	1	1	0	0	0	0	1	2	2	1	0	0	0	1	3	3	1	0	0	
32	0	0	0	0	1	1	0	1	1	2	2	2	1	0	0	1	3	3	3	2	1	0	0	1	3	4	3	2	0	0
36	0	1	4	1	1	1	0	1	3	3	3	2	1	0	0	2	4	4	3	2	1	0	0	2	4	4	3	1	0	0
40	0	1	1	2	1	1	0	1	3	3	3	2	1	0	0	2	3	3	3	2	1	0	0	2	3	3	2	1	0	0
44	0	0	1	1	1	0	0	1	1	2	2	1	0	0	0	1	2	2	2	1	0	0	0	2	2	2	1	0	0	0
48	-1	0	1	1	0	0	0	0	1	2	1	0	0	0	0	1	2	2	1	0	0	0	0	2	2	2	1	0	0	0
52	0	1	1	1	0	1	0	0	2	2	1	0	0	0	0	1	3	3	1	0	0	0	0	2	3	3	1	0	0	-1
56	1	1	2	2	1	1	1	1	3	3	2	0	0	0	0	1	3	3	2	0	0	0	0	1	3	2	1	0	0	-1
60	1	2	3	2	1	0	1	1	3	3	2	0	0	1	1	3	3	2	0	0	0	0	0	1	2	2	1	0	0	-1
64	2	2	2	2	1	0	0	1	2	3	2	0	0	0	0	1	2	2	1	0	0	0	0	0	1	1	0	0	0	0
68	2	2	2	1	1	0	0	1	2	2	1	0	0	0	0	1	2	1	1	0	0	0	0	0	1	0	0	0	0	0
72	2	1	1	1	0	0	0	1	1	1	0	0	0	0	0	0	1	1	0	0	0	0	0	-1	0	0	0	-1	0	0
76	2	1	1	0	0	0	-1	1	1	1	0	0	0	-1	0	0	0	0	0	0	0	0	0	-1	-1	-1	-1	0	0	0
80	2	1	0	0	0	0	-1	1	0	0	0	0	0	-1	0	0	0	0	0	0	0	-1	-1	-1	-1	0	0	0	0	0

MAY

18	-1	-2	-3	-3	-1	0	0	-1	-3	-3	-2	-1	0	0	0	-2	-3	-2	-1	0	0	0	-2	-2	-1	0	0	0	0
20	-1	-3	-4	-3	-1	0	1	-2	-3	-4	-2	-1	0	0	0	-2	-3	-2	-1	0	0	0	-2	-2	-1	0	1	0	0
24	-1	-4	-5	-3	-1	1	1	-1	-3	-4	-2	0	1	1	1	-1	-2	-2	-1	0	1	0	-1	-1	0	1	1	0	0
28	-1	-2	-4	-2	0	1	1	0	-1	-2	-1	1	1	1	1	0	0	0	0	1	1	1	1	1	1	1	1	0	0
32	-1	0	-1	0	1	2	1	0	2	1	1	2	2	1	1	1	3	2	1	1	1	1	2	2	2	1	1	0	0
36	0	1	2	2	2	2	1	1	3	4	3	2	2	1	1	2	4	4	2	1	1	1	2	3	3	1	0	0	0
40	0	1	3	3	2	1	1	1	3	4	3	2	1	1	1	1	3	4	2	1	0	1	2	3	3	1	0	0	0
44	0	1	2	2	2	1	1	1	2	3	2	1	1	1	1	1	3	3	2	1	0	0	1	2	3	1	0	0	0
48	0	1	2	2	1	1	0	0	2	3	2	1	1	0	0	1	2	3	2	1	0	0	1	2	3	2	0	0	0
52	-1	0	2	2	1	1	0	0	2	3	3	1	0	0	0	1	3	3	2	0	-1	-1	2	2	2	1	0	-1	-1
56	-1	1	2	3	1	0	0	0	2	3	3	1	-1	-1	-1	1	2	3	2	0	-1	-1	2	2	2	1	0	-1	-1
60	0	1	3	3	1	-1	0	0	2	3	3	0	-1	-1	-1	1	2	3	2	0	-2	-1	1	2	1	0	-1	-1	-1
64	0	1	2	2	1	-1	-1	0	1	3	2	0	-2	-1	-1	1	1	2	1	-1	-2	-1	1	1	0	-1	-1	-1	-1
68	0	1	2	1	0	-1	-1	0	1	2	1	-1	-1	-1	-1	0	0	1	0	-1	-1	-1	0	0	0	-1	-1	-1	-1
72	1	1	1	1	0	0	-1	0	0	0	0	-1	-1	-1	-1	0	0	0	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	0
76	1	1	0	0	0	0	-1	1	0	0	-1	-1	0	0	0	0	-1	-1	-1	-1	0	0	-1	-2	-2	-2	-1	-1	0
80	1	1	0	-1	-1	0	0	0	0	-1	-1	-1	0	0	0	-1	-1	-2	-2	-1	0	0	-2	-2	-2	-2	-1	0	0

JUNE

18	0	-1	-2	-1	0	1	1	0	-2	-2	-2	-1	0	1	-1	-2	-2	-2	-1	0	0	-1	-1	-1	-1	-1	-1	0
20	0	-1	-2	-1	0	1	1	-1	-2	-3	-2	-1	1	1	-1	-2	-2	-2	-1	0	0	-1	-1	-1	-1	-1	-1	0
24	-1	-2	-2	-1	0	1	1	0	-2	-2	-1	0	1	1	0	-1	-1	-1	0	1	0	0	0	0	0	0	0	0
28	-1	-1	-1	-1	0	1	1	0	0	0	0	1	1	1	1	1	1	1	1	1	1	1	2	2	1	1	1	0
32	0	0	0	0	0	0	0	0	1	2	2	2	1	1	1	2	3	3	3	2	1	1	2	3	3	3	2	1
36	0	1	1	1	1	0	0	1	2	3	3	2	1	0	1	3	4	4	4	2	1	1	2	3	3	3	2	1
40	0	1	1	2	1	0	-1	1	2	3	3	2	0	0	1	2	4	4	3	1	0	1	2	3	2	2	1	1
44	0	1	1	2	1	0	0	1	2	3	2	1	0	0	1	3	3	2	1	0	0	1	2	3	1	1	0	0
48	1	1	2	2	1	0	0	1	3	3	2	0	-1	-1	1	3	4	2	0	-1	0	1	3	3	1	0	0	0
52	2	2	2	2	1	-1	-1	2	3	4	2	0	-1	-1	1	3	4	2	-1	-1	-1	1	3	3	1	-1	-1	0
56	2	2	2	2	1	-2	-2	2	3	3	2	0	-3	-2	1	3	3	2	-1	-2	-2	1	2	2	1	-1	-1	-1
60	2	2	2	2	0	-2	-2	1	3	2	2	-1	-3	-3	1	2	2	1	-1	-3	-2	0	2	1	0	-2	-2	-1
64	1	2	2	1	0	-2	-2	1	2	2	1	0	-3	-3	1	1	1	1	-1	-2	-2	0	1	0	0	-2	-2	-2
68	1	1	1	1	0	-2	-1	1	1	1	1	0	-2	-2	0	1	1	0	0	-1	-2	0	0	0	0	-1	-1	-1
72	0	1	1	0	-1	-1	0	0	0	0	0	0	-1	0	0	0	0	0	0	0	0	0	-1	-1	0	0	-1	-1
76	0	0	0	0	-1	0	1	0	-1	0	0	0	0	1	0	-1	0	0	1	0	0	0	-1	-1	0	0	0	0
80	-1	0	0	0	-1	0	1	0	-1	-1	0	1	1	1	0	-1	-1	0	1	1	1	-1	-2	-1	0	1	0	0

JULY

18	0	-1	-2	-3	-2	0	0	-1	-2	-3	-3	-2	0	0	-1	-3	-4	-4	-2	-1	0	-2	-3	-4	-2	-2	-1	-1	
20	-1	-2	-3	-3	-2	0	1	-1	-3	-4	-4	-2	0	1	-2	-3	-5	-4	-2	-1	0	-2	-3	-3	-2	0	-1	-1	
24	-2	-3	-4	-3	-1	0	1	-1	-2	-3	-3	-1	0	1	0	0	-2	-3	-1	0	0	1	2	1	0	0	0	0	
28	-1	-2	-2	-1	0	1	1	1	0	0	0	1	1	1	2	3	3	1	1	1	1	2	5	6	4	2	1	0	
32	-1	-1	0	1	2	2	1	1	2	3	4	3	2	1	2	4	6	6	4	2	1	3	6	8	7	5	2	1	
36	-1	0	1	3	4	2	1	1	2	4	6	5	3	1	2	4	7	8	5	3	1	3	6	8	6	4	3	1	
40	-1	0	1	3	4	2	1	0	2	4	5	4	2	1	1	3	6	7	5	3	1	2	4	7	7	5	3	1	
44	-1	0	1	2	2	1	0	0	2	4	4	3	1	0	1	3	5	5	3	1	0	1	3	5	5	3	2	1	
48	-1	0	2	2	2	1	0	0	2	4	4	2	1	0	1	3	4	4	3	1	0	1	3	4	3	2	1	0	
52	0	1	3	4	3	2	1	1	2	4	4	3	1	0	1	2	3	3	2	0	-1	-1	2	2	2	1	0	-1	0
56	0	1	4	4	3	2	0	1	2	3	3	2	1	0	2	2	2	1	0	-1	-1	2	2	0	-1	-2	-2	-1	
60	1	2	3	4	3	1	0	2	2	2	2	1	0	-1	2	1	0	-1	-2	-2	-2	2	1	-1	-3	-4	-3	-1	
64	1	2	3	3	2	0	0	2	1	1	1	0	-1	-1	2	0	-1	-2	-3	-2	-2	1	0	-2	-4	-4	-3	-2	
68	1	2	2	2	1	0	0	1	1	0	0	-1	-1	-1	1	0	-2	-3	-3	-2	-1	1	-1	-2	-3	-3	-2	-1	
72	1	1	1	0	0	0	0	1	0	-1	-1	-1	-1	0	1	-1	-2	-2	-2	-1	-1	0	-1	-2	-2	-2	-1	-1	
76	1	1	-1	-1	0	0	0	1	-1	-2	-2	-1	-1	0	0	-2	-3	-2	-1	-1	0	0	-2	-2	-1	0	0	0	
80	1	0	-1	-2	-1	0	1	0	-1	-3	-3	-1	0	1	0	-2	-3	-2	-1	0	0	-1	-2	-1	0	0	0	0	

S HEMISPHERE

TEMPERATURE - (ZONAL MEAN TEMPERATURE) (K)

KN LAT= LONGITUDE 60 E LONGITUDE 90 E LONGITUDE 120 E LONGITUDE 150 E
-80 -70 -60 -50 -40 -30 -20 -80 -70 -60 -50 -40 -30 -20 -80 -70 -60 -50 -40 -30 -20 -80 -70 -60 -50 -40 -30 -20

APRIL

1.	-1	0	1	1	0	0	0	0	0	1	1	1	1	0	0	0	0	1	1	1	1	0	0	0	0
20	-1	0	1	1	0	0	0	0	0	1	1	1	1	0	0	0	0	2	1	1	0	0	0	0	0
24	0	1	2	2	1	0	0	0	0	1	1	2	1	0	0	0	0	2	2	1	0	0	0	0	0
28	1	2	3	3	1	0	0	0	0	1	2	3	2	0	0	0	0	1	1	1	1	0	0	0	0
32	1	3	3	2	1	0	0	0	0	1	2	2	1	0	0	0	0	0	0	0	-1	0	0	0	0
36	2	3	3	2	0	0	0	0	0	1	1	1	0	0	0	0	0	0	0	-1	-1	-1	-1	0	0
40	2	2	1	1	0	0	0	0	0	1	1	0	-1	-1	-1	0	0	0	0	-1	-1	-1	-1	0	0
44	2	2	1	0	0	0	0	0	0	1	1	0	0	0	0	0	0	0	0	-1	-1	-1	-1	0	0
48	2	1	1	1	0	0	0	0	0	2	1	1	0	0	0	0	0	1	0	-1	0	0	0	0	0
52	2	2	2	1	0	0	-1	-1	-1	2	1	0	0	0	0	0	0	1	-1	-2	-1	-1	0	0	0
56	2	1	1	0	0	-1	-1	-1	-1	1	0	-1	-1	-1	-1	-1	0	0	-2	-3	-2	-1	0	0	0
60	1	0	0	-1	-1	-1	-1	-1	-1	0	-2	-2	-2	-1	-1	-1	0	0	-3	-3	-3	-2	-1	0	0
64	0	0	-1	-1	-1	-1	-1	-1	-1	0	-2	-3	-3	-2	-1	-1	0	-1	-3	-3	-3	-2	-1	0	0
68	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-2	-2	-2	-2	-1	0	0	-1	-3	-2	-2	-1	-1	0	0
72	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-2	-2	-2	-2	-1	0	0	-2	-2	-2	-2	-1	0	0	0
76	-2	-2	-1	-1	-1	0	0	0	0	-2	-2	-2	-1	-1	0	0	0	-2	-2	-1	-1	0	0	0	0
80	-2	-2	-1	-1	-1	0	0	0	0	-2	-2	-1	-1	-1	0	0	0	-2	-2	-1	0	0	0	0	0

MAY

18	-1	0	1	1	1	0	0	0	0	0	1	2	1	1	0	0	0	1	2	3	2	1	0	0	0	0
20	-1	0	1	1	1	0	0	0	0	0	1	2	2	1	0	0	0	1	3	3	2	1	0	0	0	0
24	-1	0	1	2	1	0	0	0	0	0	2	3	2	1	0	-1	-1	2	3	4	3	1	0	-1	0	-1
28	1	1	2	2	1	0	0	0	0	1	2	3	2	1	0	0	0	1	2	3	3	1	0	-1	0	-1
32	2	2	1	1	0	0	0	0	0	2	1	1	1	0	0	0	0	1	1	1	2	0	0	-1	0	-1
36	2	2	1	0	0	0	0	0	0	2	0	0	0	0	0	0	0	1	-1	-1	0	0	0	-1	0	-1
40	2	2	1	0	0	0	0	0	0	1	0	-1	-1	0	0	0	0	0	-1	-2	-1	0	0	0	0	0
44	1	2	1	1	0	0	0	0	0	1	0	0	0	0	1	0	0	0	-1	-2	-1	0	0	0	0	0
48	2	2	1	1	0	1	0	0	0	1	1	0	0	0	1	0	0	1	-1	-2	-1	-1	0	0	0	0
52	2	2	1	0	0	0	0	0	0	2	1	0	-1	0	1	0	0	1	0	-2	-2	-1	0	0	0	0
56	2	2	0	-1	-1	0	0	0	0	1	1	-1	-2	-1	0	0	0	1	0	-2	-3	-1	0	0	0	0
60	1	1	-1	-1	-1	-1	0	0	0	1	0	-2	-2	-1	0	0	0	0	-1	-2	-3	-1	0	0	0	0
64	1	0	-1	-2	-1	-1	0	0	0	0	0	-2	-2	-1	0	0	0	0	-1	-2	-2	-1	0	0	0	0
68	0	-1	-2	-2	-1	-1	0	0	0	-1	-1	-2	-2	-1	0	0	0	-1	-1	-2	-1	0	0	0	0	0
72	-1	-2	-2	-2	-1	-1	0	0	0	-1	-2	-2	-1	0	0	0	0	-1	-1	-1	-1	0	0	0	0	0
76	-2	-2	-2	-1	-1	-1	0	0	0	-2	-2	-2	-1	0	0	0	0	-1	-1	-1	0	0	0	0	0	0
80	-2	-3	-2	-1	-1	0	0	0	0	-2	-2	-2	0	0	0	0	0	-2	-1	-1	1	1	0	0	0	0

JUNE

18	-1	-1	0	0	0	0	-1	-1	-1	-1	0	1	2	1	0	-1	0	1	2	2	2	1	0	0	0	0
20	-2	-1	1	1	0	-1	-1	-1	-1	-1	0	2	2	1	0	-1	0	0	1	2	2	2	1	0	0	0
24	0	0	2	1	0	0	-1	-1	-1	0	1	2	2	1	0	-1	0	0	1	2	2	1	0	-1	0	0
28	1	2	2	2	1	0	0	0	0	1	1	1	1	0	-1	-1	0	0	0	1	1	0	0	-1	-1	-1
32	1	2	2	2	1	0	0	0	0	1	1	0	0	-1	-1	-1	0	0	0	-1	-2	-2	-2	-1	-1	-1
36	1	1	1	1	1	0	0	0	0	1	0	-1	-2	-2	-1	-1	0	0	-1	-2	-3	-3	-2	-1	0	0
40	1	1	1	0	0	0	0	0	0	1	0	-1	-2	-2	-1	0	0	0	-1	-2	-3	-3	-2	0	0	0
44	1	2	1	0	0	0	0	0	0	1	0	0	-1	-1	-1	0	0	0	-1	-2	-2	-2	-1	0	0	0
48	1	2	1	0	0	0	0	0	0	1	0	0	-1	-1	0	0	0	0	-1	-2	-2	-1	0	0	0	0
52	1	2	1	0	0	0	0	0	0	0	0	-1	-1	0	0	0	0	0	-1	-3	-2	-1	0	0	0	0
56	0	1	0	0	-1	-1	0	0	0	0	0	-1	-1	-1	0	0	0	-1	-2	-3	-2	-1	0	0	0	0
60	0	1	0	-1	-2	-1	0	0	0	0	-1	-2	-2	-1	0	0	0	-1	-2	-2	-2	0	1	2	0	0
64	0	0	-1	-1	-2	-1	-1	-1	-1	-1	-1	-2	-2	-1	0	0	0	-1	-2	-2	-2	0	1	2	0	0
68	-1	-1	-1	-1	-2	-1	-1	-1	-1	-1	-1	-2	-2	-1	0	0	0	-1	-2	-2	-1	0	1	2	0	0
72	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-2	-2	-1	-1	0	0	0	-1	-1	-2	-1	0	1	1	0	0
76	-1	-2	-1	-1	-1	0	0	0	0	-1	-2	-2	-1	-1	0	0	0	-1	-1	-1	-1	-1	0	0	0	0
80	-1	-2	-2	-1	0	0	0	0	0	-1	-2	-2	-1	-1	0	0	0	-1	-1	-1	-1	-1	0	0	0	0

JULY

18	-2	-3	-1	0	0	-1	-1	-1	-1	-2	-1	2	3	2	0	-1	0	1	4	4	3	1	0	0	0	0
20	3	-2	0	1	0	-1	-1	-1	-1	-2	-1	3	4	2	0	-1	0	1	5	5	4	1	0	0	0	0
24	1	3	4	3	1	0	-1	-1	-1	1	3	6	6	3	1	0	0	1	2	5	6	4	1	0	0	0
28	3	6	7	6	3	1	0	0	0	2	4	6	7	4	1	0	0	1	1	3	5	3	1	0	0	0
32	3	6	8	8	5	2	1	0	0	2	4	5	6	4	1	0	0	1	1	0	1	0	-1	-1	0	0
36	3	6	7	7	5	3	1	0	0	2	3	3	3	2	1	0	0	1	0	-2	-3	-2	-2	-1	0	0
40	2	4	5	4	3	2	1	0	0	2	3	2	0	0	0	0	0	1	0	-3	-5	-4	-2	-1	0	0
44	2	3	3	2	1	1	0	0	0	1	1	0	-1	-2	-1	0	0	1	0	-2	-4	-4	-2	-1	0	0
48	2	2	2	1	0	0	0	0	0	1	1	0	-1	-2	-1	0	0	1	0	-1	-3	-4	-2	-1	0	0
52	2	2	1	0	-1	-1	0	0	0	2	1	0	-1	-2	-2	0	0	1	0	-1	-1	-2	-1	-1	0	0
56	2	1	0	-1	-3	-2	-1	-1	-1	1	1	0	-1	-2	-2	0	0	1	0	0	0	-1	-1	0	0	0
60	2	1	-1	-3	-4	-2	-1	-1	-1	1	1	0	-1	-2	-1	0	0	0	0	0	0	0	0	1	1	1
64	1	0	-1	-3	-3	-2	-1	-1	-1	1	0	0	0	-1	-1	0	0	0	0	1	1	1	1	1	1	1
68	0	0	-1	-2	-2	-1	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	1	1	1	1	1
72	0	0	0	0	-1	0	0	0	0	0	0	1	1	1	0	0	0	0	1	2	1	1	1	1	1	1
76	-1	-1	0	1	1	0	0	0	0	-1	0	1	2	2	1	0	0	-1	0	1	2	1	1	0	0	0
80	-1	-1	0	2	2	1	0	0	0	-1	0	1	2	2	1	0	0	-1	0	1	2	1	1	0	0	0

S HEMISPHERE

TEMPERATURE - (ZONAL MEAN TEMPERATURE) (K)

KN LAT= LONGITUDE 180 DEG LONGITUDE 150 W LONGITUDE 120 W LONGITUDE 90 W
-80 -70 -60 -50 -40 -30 -20 -80 -70 -60 -50 -40 -30 -20 -80 -70 -60 -50 -40 -30 -20 -80 -70 -60 -50 -40 -30 -20

AUGUST

18	3	7	7	5	3	1	0	3	5	3	0	0	0	0	2	2	-2	-4	-3	-1	0	1	-1	-5	-6	-4	-1	0
20	5	9	9	6	3	1	0	4	5	3	0	-1	0	0	2	0	-4	-6	-4	-2	0	-1	-4	-7	-7	-4	-2	0
24	2	5	6	5	2	1	0	-1	0	-1	-2	-2	-1	0	-3	-5	-8	-8	-5	-2	0	-4	-7	-9	-8	-4	-2	0
28	0	-1	-1	1	0	0	0	-2	-5	-6	-5	-4	-2	0	-3	-6	-8	-8	-5	-2	0	-3	5	-6	-6	-3	-1	0
32	-1	-4	-6	-5	-3	-2	-1	-3	-6	-8	-7	-5	-3	-1	-3	-6	-6	-6	-4	-2	0	-2	-3	-2	-1	-1	0	1
36	-2	-5	-9	-8	-5	-3	-1	-3	-6	-8	-7	-5	-3	-1	-3	-5	-4	-2	-2	-1	0	-	-2	1	3	2	2	1
40	-2	-5	-9	-9	-6	-3	-1	-3	-5	-6	-5	-4	-2	-1	-3	-4	-2	1	1	1	0	-1	-1	2	-	4	3	1
44	-3	-4	-6	-6	-4	-2	-1	-3	-4	-4	-2	-1	0	0	-2	-3	0	2	3	2	1	-1	0	3	5	4	3	1
48	-3	-4	-5	-3	-1	-1	0	-2	-3	-2	0	1	1	0	-1	-1	1	3	3	2	1	1	1	4	5	4	3	1
52	-2	-3	-4	-1	0	0	0	-1	-1	-1	1	2	1	1	1	1	3	5	4	2	1	2	4	6	6	4	2	1
56	-1	-2	-3	-1	1	1	1	1	0	0	2	2	1	1	3	4	5	5	4	2	0	4	6	8	7	4	2	0
60	1	-1	-1	0	1	2	2	3	2	2	2	1	1	1	4	6	6	5	3	1	0	4	7	8	7	4	1	-1
64	2	0	0	0	0	1	1	3	3	3	2	1	1	1	4	7	6	5	3	1	0	5	8	7	6	4	0	-1
68	2	1	1	0	0	1	1	4	4	4	2	1	1	1	4	6	6	4	3	1	0	4	7	5	5	3	1	0
72	2	2	2	0	0	0	0	3	4	4	2	1	1	1	4	6	5	3	2	2	1	3	5	4	3	2	1	0
76	2	2	2	0	0	-1	0	3	4	3	2	1	1	1	3	5	4	3	3	2	1	2	4	2	2	2	2	1
80	2	3	2	0	0	-1	0	3	4	3	2	2	1	1	3	4	3	2	2	2	1	3	1	1	1	2	1	1

SEPTEMBER

18	4	4	0	-1	-1	0	0	3	1	-3	-4	-2	-1	0	1	-2	-4	-5	-3	-1	0	-1	-5	-8	-6	-3	-1	0
20	4	3	-1	-2	-1	0	0	1	-1	-4	-5	-3	-1	0	-2	-5	-8	-7	-4	-1	0	-5	-9	-10	-7	-4	-1	0
24	-2	-3	-4	-3	-2	-1	0	-5	-7	-8	-6	-4	-1	0	-7	-9	-10	-8	-4	-1	0	-7	-10	-11	-8	-4	-1	0
28	-4	-6	-6	-4	-3	-1	0	-6	-8	-9	-7	-4	-1	0	-6	-9	-9	-7	-4	0	1	-5	-7	-7	-6	-2	0	1
32	-4	-7	-7	-5	-3	-1	0	-6	-8	-7	-5	-3	-1	1	-6	-7	-6	-4	-2	1	1	-4	-4	-2	-2	0	1	1
36	-4	-7	-6	-4	-3	-1	0	-5	-7	-5	-3	-2	0	1	-5	-5	-2	-1	0	1	1	-3	-2	1	2	2	2	1
40	-4	-5	-4	-3	-2	-1	0	-4	-5	-3	-1	0	1	1	-4	-3	0	2	2	2	1	-2	0	4	4	3	2	1
44	-3	-4	-3	-2	-1	0	0	-3	-3	-1	0	1	1	1	-2	-1	1	2	2	2	1	0	2	4	4	3	2	1
48	-3	-3	-3	-2	-1	0	0	-2	-2	-1	0	0	0	0	0	1	2	2	1	1	0	2	4	5	3	2	1	1
52	-3	-5	-4	-3	-2	0	0	-1	-2	-2	-1	0	0	0	1	1	2	2	1	1	0	3	5	6	5	2	1	0
56	-4	-6	-6	-4	-2	0	0	-1	-3	-2	-1	-1	0	0	1	1	2	2	1	1	0	4	5	6	5	2	1	0
60	-3	-5	-4	-3	-1	0	0	0	-2	-1	0	0	1	0	3	2	3	2	1	1	0	5	6	6	5	2	0	0
64	-2	-3	-2	-1	0	1	0	1	0	0	0	0	1	0	4	3	3	2	1	1	0	5	5	4	2	0	0	0
68	0	-1	-1	0	0	1	0	2	1	1	0	0	1	0	4	3	3	2	1	1	0	4	4	3	2	1	0	0
72	0	0	1	1	0	1	0	2	2	1	1	0	1	0	3	3	2	1	1	1	0	3	3	2	1	1	0	0
76	1	1	1	1	0	0	0	2	2	2	1	0	1	0	3	3	1	0	1	1	0	2	2	1	1	1	1	0
80	1	2	2	1	0	0	0	2	2	2	1	0	0	0	2	2	1	0	1	1	0	2	1	1	0	1	1	0

OCTOBER

18	4	5	4	2	1	0	0	2	2	1	0	-1	0	0	0	-2	-3	-2	-1	-1	0	-2	-4	-5	-3	-1	0	0
20	4	6	4	2	1	0	0	1	1	0	-1	-1	-1	0	-2	-3	-3	-3	-2	-1	0	-4	-6	-6	-4	-2	0	0
24	1	3	3	2	1	0	0	-1	-1	-1	-1	-1	-1	0	-4	-5	-5	-3	-2	-1	0	-4	-7	-7	-5	-2	0	0
28	-1	0	1	0	0	-1	0	-3	-2	-2	-2	-2	-1	0	-3	-4	-4	-3	-2	-1	0	-3	-5	-5	-4	-2	0	1
32	-2	-3	-3	-2	-2	-1	0	-3	-3	-3	-2	-2	-1	0	-2	-3	-3	-3	-2	0	1	-2	-2	-2	-2	-1	0	1
36	-3	-4	-5	-4	-2	-1	0	-2	-3	-3	-3	-2	-1	0	-2	-1	-1	-1	-1	0	0	-1	0	0	0	0	0	1
40	-2	-5	-6	-5	-3	-1	0	-2	-2	-3	-2	-2	0	0	-1	0	0	0	0	0	0	0	1	2	1	1	1	1
44	-2	-4	-6	-4	-3	-1	0	-2	-2	-3	-2	-1	0	0	-1	0	0	0	0	0	0	0	2	2	2	1	1	0
48	-3	-5	-5	-4	-2	0	0	-2	-3	-3	-2	0	1	0	-1	0	0	0	1	1	0	0	2	2	2	2	1	0
52	-3	-5	-5	-4	-1	0	0	-2	-3	-3	-2	0	1	0	-1	0	0	1	1	1	0	0	2	2	3	2	0	0
56	-3	-4	-4	-2	0	1	0	-2	-3	-2	-1	1	1	0	-1	-1	0	1	2	1	0	0	2	2	3	1	0	0
60	-2	-2	-2	0	1	1	0	-1	-1	0	1	1	1	0	0	0	1	2	2	1	0	1	1	2	3	1	0	0
64	-1	-1	0	1	1	2	1	0	0	1	2	1	1	0	1	1	2	2	1	0	0	1	1	2	2	1	0	-1
68	0	1	1	1	1	1	1	1	1	1	2	1	1	0	1	1	2	2	1	0	0	1	1	2	1	0	0	-1
72	1	1	1	1	0	1	1	2	2	2	1	0	1	0	2	2	2	1	0	0	-1	1	1	1	1	0	-1	-1
76	2	2	1	0	0	0	1	2	2	2	1	0	1	0	2	2	2	1	0	0	-1	0	1	1	0	0	-1	-1
80	2	2	1	0	-1	0	1	2	2	2	0	0	1	0	1	2	2	0	0	0	-1	0	1	1	0	0	-1	-1

NOVEMBER

18	2	3	1	0	0	0	0	1	0	-1	-1	-1	0	0	-1	-3	-3	-3	-1	0	1	-2	-5	-5	-3	-1	0	1
20	2	3	1	0	0	0	0	1	0	-2	-2	-1	0	1	-1	-3	-4	-3	-1	0	1	-3	-5	-5	-4	-1	0	1
24	1	1	0	-1	0	0	0	0	-1	-2	-2	-1	0	1	-1	-3	-4	-3	-1	0	1	-2	-5	-5	-3	-1	1	1
28	-1	-1	-2	-2	-1	0	0	-1	-2	-2	-2	-1	0	0	-1	-2	-2	-2	-1	0	1	-1	-2	-2	-1	0	0	0
32	-3	-4	-4	-3	-1	0	0	-2	-2	-2	-1	0	0	0	-1	-1	0	0	0	0	0	1	1	1	1	1	0	0
36	-4	-5	-4	-3	-1	0	0	-2	-2	-1	0	0	0	0	0	1	1	2	1	0	0	2	3	4	3	1	0	0
40	-4	-5	-4	-2	0	0	0	-2	-2	-1	0	1	0	0	0	2	2	2	1	0	0	2	4	5	4	1	0	0
44	-3	-4	-3	-2	0	0	0	-2	-1	0	0	1	0	0	0	2	2	2	1	0	0	2	4	4	3	1	0	0
48	-2	-2	-2	-1	0	0	0	-1	-1	0	0	0	0	0	0	1	1	2	1	0	0	1	3	3	2	1	0	0
52	-1	-1	-1	0	-1	0	0	0	0	0	0	0	0	0	0	1	1	1	0	0	0	1	2	2	1	1	0	0
56	0	-1	-1	0	0	0	0	0	0	0	1	0	0	0	0	1	1	1	0	0	0	1	1	1	1	0	0	0
60	0	0	0	0	0	0	0	0	0	1	1	0	0	0	0	1	1	1	0	0	0	1	1	1	0	-1	0	0
64	0	0	1	1	1	0	0	0	1	1	1	1	0	0	0	1	1	1	0	0	0	1	1	0	0	-1	0	0
68	0	0	1	1	1	0	0	0	1	1	1	1	0	0	0	1	1	1	0	0	0	1	1	0	0	-1	0	0
72	0	0	1	1	1	0	0	0	1	1	1	1	0	0	0	1	1	0	0	0	0	1	1	0	0	-1	0	0
76	0	0	0	0	0	0	0	0	1																			

S HEMISPHERE

TEMPERATURE - (ZONAL MEAN TEMPERATURE) (K)

KN LAT= LONGITUDE 60 W LONGITUDE 30 W LONGITUDE 0 DEG LONGITUDE 30 E
-80 -70 -60 -50 -40 -30 -20 -80 -70 -60 -50 -40 -30 -20 -80 -70 -60 -50 -40 -30 -20 -80 -70 -60 -50 -40 -30 -20DEG

AUGUST

18	0	-3	-5	-4	-2	0	0	-1	-3	-3	0	1	1	1	-2	-3	-2	1	1	1	1	-2	-4	-3	-1	0	0	0
20	-2	-5	-6	-4	-2	0	0	-3	-4	-3	0	1	1	1	-3	-3	-2	1	2	2	1	-3	-4	-3	-1	0	0	0
24	-3	-5	-5	-3	-1	0	1	-1	-1	-1	1	2	2	1	0	1	1	2	2	2	1	1	1	0	0	0	0	0
28	-2	-2	-1	-1	1	1	1	0	1	2	3	3	2	1	1	3	3	3	3	2	1	2	3	3	1	0	0	0
32	-1	0	2	3	3	2	1	0	2	4	4	4	2	1	1	3	4	3	2	1	0	2	4	5	2	0	0	0
36	-1	1	3	5	4	2	1	0	2	4	4	3	1	0	1	3	4	2	1	0	0	2	4	5	2	0	0	0
40	0	1	4	5	4	2	1	1	2	3	3	1	0	0	2	3	3	1	-1	-1	-1	3	4	4	2	0	0	0
44	1	2	4	4	3	1	0	2	3	3	2	0	-1	-1	3	4	3	0	-1	-2	-1	3	4	3	1	0	-1	0
48	2	3	5	3	2	1	1	3	4	3	1	-1	-1	0	3	4	2	-1	-2	-2	-1	2	2	1	-1	-1	-1	-1
52	3	5	7	4	2	1	1	3	5	4	1	-1	-1	-1	2	3	1	-3	-3	-2	-2	0	0	-2	-4	-3	-2	-2
56	3	6	8	6	2	0	0	2	4	4	1	-1	-2	-1	0	1	-1	-4	-4	-3	-2	-2	-2	-4	-6	-5	-3	-2
60	4	6	7	5	2	-1	-1	1	3	3	0	-2	-2	-2	-1	-2	-2	-4	-5	-4	-2	-3	-4	-5	-6	-4	-2	-1
64	3	5	5	4	2	-1	-2	1	1	1	0	-2	-3	-2	-2	-3	-3	-4	-5	-3	-2	-4	-5	-5	-5	-4	-2	-1
68	2	4	3	3	1	-1	-1	0	-1	-1	-1	-2	-2	-2	-2	-4	-3	-3	-4	-2	-1	-4	-5	-4	-3	-3	-1	-1
72	1	2	1	1	0	0	0	-1	-2	-2	-1	-2	-2	-1	-2	-5	-3	-2	-2	-2	-1	-3	-5	-3	-2	-1	-1	-1
76	1	1	-1	0	0	0	0	-1	-3	-3	-2	-2	-1	0	-2	-5	-3	-2	-2	-1	-1	-3	-4	-2	-1	0	0	-1
80	0	0	-1	-1	-1	1	1	-1	-3	-3	-2	-2	-1	0	-2	-4	-3	-1	-1	-1	-1	-2	-4	-2	0	1	0	-1

SEPTEMBER

18	-3	-8	-9	-6	-3	-1	0	-4	-7	-6	-3	-1	0	0	-4	-4	-1	0	0	0	0	-3	1	5	4	2	1	0
20	-6	-10	-10	-6	-3	-1	0	-5	-8	-7	-3	-1	0	0	-3	-2	0	1	1	0	0	0	4	7	5	3	1	0
24	-5	-8	-9	-6	-2	0	0	-1	-3	-4	-2	-1	0	0	3	3	3	2	1	1	0	6	9	9	7	3	1	0
28	-2	-3	-4	-3	-1	1	0	1	2	1	0	1	1	0	4	6	5	4	2	1	0	6	9	7	3	1	0	
32	-1	0	2	1	2	2	1	2	4	5	3	3	2	0	4	7	7	5	3	1	0	6	8	7	5	3	0	0
36	0	2	5	4	3	2	1	2	5	7	5	4	2	0	4	7	6	5	3	1	0	5	7	4	3	1	0	-1
40	0	3	6	6	4	2	1	2	6	7	6	4	2	0	4	6	5	4	2	1	-1	4	5	2	1	0	-1	-1
44	2	4	6	5	3	2	1	3	5	6	4	3	1	0	3	4	3	2	2	0	0	2	2	0	0	0	-1	-1
48	3	6	6	4	2	1	1	4	6	6	4	2	1	0	3	4	3	2	1	1	0	2	1	0	0	0	0	-1
52	4	7	7	5	2	1	1	4	7	6	4	2	1	0	3	5	4	2	1	1	0	2	1	0	0	1	0	-1
56	5	8	8	6	3	1	0	5	8	8	5	2	0	0	4	6	5	3	1	0	0	2	2	1	0	0	0	0
60	5	7	7	5	2	0	0	4	7	6	4	1	0	-1	2	4	3	2	0	0	-1	0	1	0	-1	-1	0	0
64	5	6	5	4	2	0	-1	3	5	4	3	1	-1	-1	1	2	2	1	0	-1	-1	-1	0	-1	-1	-1	-1	0
68	4	4	3	3	1	0	0	2	2	2	2	1	-1	-1	0	0	0	0	-1	-1	-1	-2	-2	-1	-1	-1	-1	0
72	2	2	2	2	1	0	0	1	1	1	1	0	0	0	-1	-1	-1	0	-1	-1	0	-2	-2	-2	-2	-1	-1	0
76	1	1	1	1	1	0	0	0	-1	0	0	0	0	0	-2	-2	-1	-1	0	-1	0	-2	-3	-2	-1	-1	-1	0
80	1	0	0	0	1	0	0	-1	-1	-1	0	0	0	1	-2	-2	-1	-1	0	0	1	-2	-2	-2	-1	-1	-1	0

OCTOBER

18	-3	-5	-6	-3	-1	0	0	-3	-6	-6	-3	-1	0	0	-3	-5	-4	-2	-1	0	0	-2	-3	-2	-1	-1	0	0
20	-4	-7	-7	-4	-1	0	0	-4	-6	-6	-4	-1	0	0	-3	-5	-4	-2	-1	0	0	-2	-2	-1	-1	0	0	0
24	-4	-6	-7	-5	-2	0	0	-2	-4	-6	-4	-1	0	0	0	-1	-3	-2	-1	0	0	1	1	0	0	0	0	0
28	-2	-3	-5	-4	-1	0	0	0	-1	-3	-2	0	0	0	2	2	1	0	1	0	0	3	4	3	2	1	0	0
32	-1	-1	-1	-1	0	1	0	1	1	1	1	1	1	0	2	4	4	3	2	1	0	3	5	4	2	1	0	0
36	0	1	2	1	1	1	1	1	3	4	3	2	1	0	2	5	4	5	3	1	0	3	5	6	5	3	1	0
40	1	2	3	3	2	1	0	1	3	5	4	3	1	0	2	5	6	5	3	1	0	2	4	5	4	2	0	0
44	1	3	4	3	2	1	0	2	4	5	5	3	1	0	2	4	6	5	3	1	0	2	3	4	3	1	0	0
48	2	4	5	4	2	1	0	2	4	6	5	3	1	0	2	4	6	4	2	0	0	2	3	3	2	0	0	0
52	2	4	5	4	2	0	0	3	5	6	4	2	0	0	3	4	5	4	1	0	0	2	3	3	2	0	0	0
56	2	4	4	3	2	0	0	3	5	5	3	1	-1	0	3	4	4	2	0	-1	0	2	3	2	0	-1	-1	0
60	2	2	3	2	1	-1	-1	2	3	2	1	0	-1	-1	2	3	2	0	-1	-1	-1	1	2	1	-1	-2	-1	0
64	1	1	1	1	0	-1	-1	1	1	0	0	-1	-1	-1	1	1	0	-1	-1	-1	-1	0	0	-1	-2	-2	-1	0
68	1	1	0	0	0	-1	-1	0	0	-1	-1	-1	-1	-1	0	0	-1	-1	-1	0	0	-1	-1	-1	-1	0	0	1
72	0	0	0	0	0	-1	-1	0	-1	-1	-1	0	0	0	0	-1	-2	-1	0	0	0	-1	-1	-1	0	1	1	1
76	-1	0	-1	0	0	-1	-1	-1	-1	-1	-1	0	0	0	-1	-1	-1	-1	0	1	1	-1	-2	-1	0	1	1	1
80	-1	0	-1	0	0	-1	-1	-1	-1	-1	0	0	0	0	-1	-1	-1	0	1	1	1	-1	-2	-1	0	1	1	1

NOVEMBER

18	-3	-5	-5	-3	-1	0	0	-3	-4	-4	-2	0	0	0	-2	-2	-1	0	0	0	0	-1	0	1	1	0	0	0
20	-3	-6	-5	-4	0	1	0	-3	-4	-4	-2	0	0	0	-2	-2	-1	0	0	0	0	-1	1	2	2	0	0	0
24	-2	-4	-4	-3	0	1	0	-2	-3	-3	-1	0	0	0	-1	0	0	1	0	0	0	0	2	3	2	0	0	0
28	0	-1	-1	0	1	0	0	1	1	0	0	1	0	0	1	2	2	1	1	0	0	1	3	3	2	0	0	0
32	2	3	3	2	1	0	0	3	4	3	2	1	0	0	3	4	4	2	1	0	0	2	3	3	2	0	0	0
36	3	5	5	3	1	0	0	4	5	3	3	1	0	0	3	5	4	2	1	0	0	2	3	2	1	0	0	0
40	3	6	6	4	1	0	0	4	6	5	3	1	0	0	3	5	4	2	0	0	0	2	3	2	0	0	0	0
44	3	5	5	3	1	0	0	3	5	4	2	0	0	0	3	4	3	1	0	0	0	1	2	1	0	0	0	0
48	2	3	3	2	1	0	0	2	3	3	1	0	0	0	1	2	2	0	0	0	0	0	1	0	0	0	0	0
52	1	2	2	1	1	0	0	1	2	1	0	0	0	0	0	1	1	0	0	0	0	0	0	0	0	0	0	0
56	1	1	1	1	0	0	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
60	1	1	0	0	0	0	0	1	1	0	0	0	0	0	0	0	0	-1	0	0	0	0	0	0	0	0	0	1
64	1	0	0	-1	-1	0	0	0	0	-1	-1	-1	0	0	0	0	-1	-1	0	0	0	0	0	0	0	0	0	1
68	0	0	-1	-1	-1	0	0	0	0	-1	-1	-1	0	0	0	0	-1	-1	0	0	0	0	0	0	0	0	1	0
72	0	0	-1	-1	-1	0	0	0	0	-1	-1	-1	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	0
76	0	0	0	0	-1	0	0	0	0	0																		

TEMPERATURE - (ZONAL MEAN TEMPERATURE) (K)

LONGITUDE 150 E
-80 -70 -60 -50 -40 -30 -20 DEG

18	-2	-4	-3	-2	-1	-1	-1	-2	-2	0	0	-1	-1	-1	0	1	4	4	2	0	-1	1	5	8	7	4	1	0
20	-3	-4	-3	-2	-1	-1	-1	-1	-2	0	0	-1	-1	-1	1	3	6	5	2	0	-1	4	8	10	8	4	2	0
24	1	1	0	-1	-1	-1	-1	2	2	3	1	0	0	-1	3	5	7	6	3	0	-1	3	6	9	8	4	1	0
28	2	4	4	0	-1	-1	-1	2	4	4	2	0	0	-1	2	4	5	5	3	1	0	1	2	4	5	3	1	0
32	2	5	5	2	0	0	0	2	4	5	3	1	0	0	2	3	2	3	2	1	0	1	-1	-2	0	0	0	0
36	2	5	6	3	1	1	0	2	4	6	3	2	1	1	2	2	0	0	1	1	0	0	-2	-5	-5	-2	-1	-1
40	2	4	5	4	2	1	1	2	3	3	3	3	2	1	1	0	-1	-2	0	0	0	-1	-3	-7	-7	-4	-2	-1
44	2	3	3	2	1	1	0	1	1	1	1	1	1	1	-1	-1	-2	-2	-1	0	0	-2	-3	-6	-6	-4	-2	-1
48	1	0	0	0	0	0	0	0	-1	-1	-1	0	0	0	-2	-3	-3	-2	-2	-1	0	-3	-4	-5	-4	-2	-1	0
52	-1	-2	-3	-3	-2	-1	-1	-2	-3	-3	-2	-1	0	0	-3	-4	-3	-2	-1	0	1	-3	-4	-4	-2	-1	0	1
56	-3	-4	-5	-5	-4	-2	-1	-3	-4	-4	-3	-1	0	0	-3	-4	-4	-1	1	2	2	-2	-4	-4	-1	1	2	2
60	-4	-5	-5	-5	-3	-1	0	-4	-4	-5	-3	0	1	1	-3	-4	-4	-1	2	2	2	-1	-3	-3	-1	1	2	2
64	-5	-5	-5	-4	-2	0	0	-4	-4	-4	-2	1	2	1	-2	-3	-3	-1	2	2	2	0	-2	-2	-1	1	2	2
68	-4	-5	-4	-2	-1	0	0	-4	-3	-3	-1	1	1	1	-2	-2	-2	-1	1	1	1	0	-1	-1	-1	0	1	1
72	-4	-4	-2	-1	0	0	0	-3	-2	-2	-1	1	1	0	-1	-1	-1	-1	0	0	0	1	0	0	-1	-1	-1	0
76	-3	-3	-1	0	1	1	0	-2	-1	-1	0	0	0	0	-1	0	0	-1	-1	-1	0	1	1	0	-1	-2	-1	0
80	-2	-2	0	1	1	0	0	-2	-1	0	0	0	0	0	0	0	0	-1	-1	-2	-1	1	1	1	-1	-2	-2	-1

18	-1	4	9	7	3	1	0	1	6	10	7	4	1	0	3	6	7	5	3	1	0	4	5	4	2	1	0	0
20	3	8	11	8	4	1	0	5	9	12	8	4	2	0	5	8	8	6	3	1	0	5	5	4	2	1	0	0
24	7	11	13	9	4	1	0	6	10	13	9	4	1	0	4	7	8	6	3	1	0	1	2	2	1	0	0	0
28	6	10	10	8	4	1	0	5	7	9	7	3	0	-1	2	3	4	4	1	0	-1	-1	-2	-1	-1	-1	-1	-1
32	6	7	6	4	2	0	-1	4	4	3	3	0	-1	-1	1	1	0	0	-1	-2	-1	-2	-4	-4	-3	-2	-1	-1
36	5	5	2	0	0	-1	-1	3	2	-1	-2	-2	-2	-1	1	-1	-3	-4	-3	-2	-1	-2	-4	-5	-5	-3	-2	0
40	4	2	-2	-3	-2	-2	-1	2	0	-4	-5	-4	-2	-1	0	-2	-5	-5	-4	-2	0	-2	-4	-5	-5	-3	-2	0
44	1	0	-3	-3	-2	-1	-1	0	-2	-5	-5	-3	-2	-1	-1	-3	-5	-5	-4	-2	0	-2	-4	-4	-4	-3	-1	0
48	0	-2	-3	-2	-1	-1	-1	-2	-4	-5	-4	-2	-1	-1	-3	-4	-5	-4	-3	-1	0	-3	-4	-4	-3	-2	-1	0
52	-1	-2	-3	-2	-1	0	-1	-3	-5	-5	-3	-2	-1	-1	-4	-6	-6	-4	-3	-1	0	-4	-6	-5	-4	-3	-1	0
56	-1	-2	-3	-2	0	0	0	-3	-5	-5	-3	-1	-1	0	-5	-7	-7	-5	-2	-1	0	-5	-7	-7	-5	-3	-1	0
60	-2	-2	-3	-2	-1	0	0	-4	-5	-5	-3	-1	-1	0	-5	-6	-6	-4	-2	0	0	-5	-6	-6	-4	-2	0	0
64	-3	-3	-3	-3	-1	-1	0	-4	-4	-4	-3	-1	0	0	-4	-5	-5	-3	-1	0	0	-4	-5	-4	-2	-1	0	0
68	-3	-3	-2	-2	-1	-1	0	-3	-3	-3	-2	-1	0	0	-3	-3	-3	-2	0	0	0	-2	-3	-2	-1	0	1	0
72	-3	-2	-2	-2	-1	-1	0	-2	-2	-2	-1	-1	0	0	-2	-2	-1	0	0	0	0	-1	-1	0	0	0	0	0
76	-2	-2	-2	-2	-1	-1	0	-2	-1	-1	-1	-1	0	0	-1	-1	0	0	0	0	0	0	0	1	1	0	0	0
80	-1	-2	-2	-1	-1	-1	-1	-1	-1	-1	-1	-1	0	-1	0	0	0	0	0	0	0	0	1	1	1	0	0	0

18	-1	0	2	1	0	0	0	1	4	5	4	2	1	0	4	7	7	5	3	1	0	5	7	6	4	2	1	0
20	0	1	2	2	1	0	0	2	5	6	4	2	1	0	5	8	8	5	3	1	0	5	8	7	4	2	1	0
24	2	4	4	3	1	0	0	3	6	7	5	2	1	0	4	7	7	5	3	1	0	3	6	6	4	2	0	0
28	3	4	5	4	2	0	0	3	4	5	4	2	0	0	2	3	4	4	2	0	0	1	1	2	2	1	0	0
32	3	4	5	4	2	0	0	2	2	2	2	1	0	0	0	-1	-1	0	0	0	0	-1	-2	-2	-1	-1	-1	0
36	2	4	4	3	2	0	0	1	0	0	0	0	0	0	-1	-3	-4	-3	-2	-1	0	-2	-5	-6	-4	-3	-1	0
40	2	3	3	2	1	0	-1	0	-1	-2	-2	-1	-1	-1	-1	-5	-6	-5	-3	-1	0	-2	-6	-8	-6	-3	-1	0
44	1	2	2	1	1	0	-1	0	-1	-3	-2	-1	-1	-1	-1	-4	-6	-5	-3	-1	0	-2	-6	-7	-5	-3	-1	0
48	1	1	1	0	0	0	-1	0	-2	-3	-2	-2	-1	-1	-2	-4	-5	-4	-3	-1	0	-2	-5	-6	-5	-3	-1	0
52	1	1	0	0	-1	0	-1	0	-2	-3	-2	-2	-1	-1	-2	-4	-5	-4	-2	-1	0	-2	-5	-6	-4	-2	-1	0
56	1	1	0	-1	-1	-1	0	-1	-2	-3	-2	-2	0	0	-2	-4	-4	-3	-1	0	0	-2	-5	-5	-3	-1	0	0
60	0	0	-1	-2	-2	-1	0	-1	-2	-2	-2	-1	0	0	-2	-3	-3	-2	0	0	0	-2	-3	-3	-1	0	1	0
64	-1	-1	-1	-2	-1	-1	0	-2	-2	-1	-1	-1	0	1	-2	-2	-2	-1	0	1	1	-1	-1	-1	0	1	1	0
68	-1	-1	-1	-1	-1	-1	0	-2	-1	-1	-1	0	0	0	-1	-1	-1	0	0	0	1	-1	0	0	0	1	1	0
72	-1	-2	-1	-1	0	0	0	-1	-1	-1	0	0	-1	0	-1	0	-1	0	0	0	0	0	1	0	0	0	0	0
76	-1	-2	-1	0	0	0	0	-1	-1	-1	0	0	-1	0	-1	0	-1	0	-1	-1	0	0	1	0	0	0	0	0
80	-1	-2	-1	0	1	0	0	-1	-1	-1	0	0	-1	-1	-1	0	-1	0	-1	-1	0	1	1	0	0	-1	-1	0

18	1	3	4	3	1	0	0	2	4	5	3	1	0	0	3	5	5	3	1	0	0	3	4	3	2	1	0
20	1	3	4	3	1	0	0	2	5	4	4	1	0	0	3	5	5	3	1	0	0	3	5	4	2	1	0
24	1	3	5	4	1	0	0	2	4	5	4	1	0	0	2	4	4	3	1	0	0	2	3	2	1	0	0
28	1	2	3	2	0	0	0	1	1	2	2	0	0	0	0	0	1	0	0	0	0	0	-1	-1	-1	0	0
32	1	1	1	1	0	0	0	0	-1	-1	-1	-1	0	0	-2	-3	-3	-2	-1	0	0	-3	-4	-4	-3	-1	0
36	1	0	0	-1	-1	0	0	-1	-3	-3	-3	-1	0	0	-3	-4	-4	-4	-2	0	0	-4	-6	-4	-4	-1	0
40	0	-1	-1	-2	-1	0	0	-2	-4	-4	-3	-1	0	0	-3	-4	-6	-4	-2	0	0	-4	-7	-4	-4	-1	0
44	0	-1	-2	-1	0	0	0	-2	-4	-4	-3	-1	0	0	-3	-5	-5	-3	-1	0	0	-3	-6	-5	-3	-1	0
48	0	-1	-1	-1	0	0	0	-1	-2	-2	-2	0	0	0	-2	-3	-3	-2	-1	0	0	-1	-2	-2	-1	0	0
52	0	-1	0	-1	0	0	0	-1	-1	-1	-1	0	0	0	-1	-2	-2	-1	0	0	0	-1	-2	-2	-1	0	0
56	-1	-1	0	0	0	0	0	0	-1	-1	0	0	0	0	0	-1	-1	-1	0	0	0	0	-1	-1	-1	0	0
60	-1	-1	0	0	0	0	0	-1	-1	-1	0	0	0	0	-1	-1	-1	0	0	0	0	-1	-1	-1	0	0	0
64	-1	0	0	0	0	0	1	-1	-1	-1	0	0	0	0	0	-1	-1	0	0	0	0	0	-1	0	0	0	0
68	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	-1	-1	0	0	0	0	0	0	0	0	0	0
72	0	0	0	0	0	0	0	0	-1	0	0	0	0	0	0	-1	-1	0	0	-1	0	0	-1	0	0	0	0
76	0	0	0	0	0	0	0	0	-1	0	0	0	-1	0	0	-1	-1	0	0	-1	0	0	0	-1	0	0	-1
80	0	0	0	0	0	0	0	0	-1	0	0	0	-1	0	0	-1	-1	0	-1	-1	0	0	-1	-1	0	0	-1

N HEMISPHERE

TEMPERATURE - (ZONAL MEAN TEMPERATURE) (K)

	LONGITUDE 180 DEG								LONGITUDE 150 W								LONGITUDE 120 W								LONGITUDE 90 W								
KN LAT=	20	30	40	50	60	70	80		20	30	40	50	60	70	80		20	30	40	50	60	70	80		20	30	40	50	60	70	80	80DEG	
SEPTEMBER																																	
18	0	0	0	0	0	0	0		0	0	0	0	0	0	0		0	0	0	-1	0	0	0		0	0	0	0	1	1	1		
20	0	0	0	0	0	0	0		0	0	0	-1	0	0	0		0	0	0	-1	0	0	1		0	0	0	0	1	1	1		
24	0	0	0	0	0	0	0		0	0	0	-1	-1	0	0		0	0	0	-1	0	0	1		0	0	0	0	1	1	1		
28	0	0	0	0	0	0	0		0	0	0	-1	-1	0	0		0	0	0	0	0	0	0		0	0	0	0	1	1	1		
32	0	0	0	0	0	0	0		0	0	0	0	-1	-1	0		0	0	0	0	0	0	0		0	0	0	0	0	0	0		
36	0	0	0	0	0	0	0		0	0	0	0	-1	-1	0		0	0	0	0	0	0	0		0	0	0	0	0	0	0		
40	0	0	0	0	-1	0	0		0	0	0	0	0	-1	-1		0	0	0	0	0	-1	-1		0	0	0	0	0	-1	-1		
44	0	0	0	0	-1	-1	0		0	0	0	0	0	-1	-1		0	0	0	0	0	-1	-1		0	0	0	0	0	-1	0		
48	0	0	0	0	-1	-1	-1		0	0	0	0	0	-1	-1		0	0	0	0	0	0	0		0	0	0	0	0	0	0		
52	0	0	0	0	0	-1	-1		0	0	0	0	0	0	-1		0	0	0	0	0	0	0		0	0	0	0	0	0	0		
56	0	0	0	0	0	0	0		0	0	0	1	0	0	0		0	0	0	1	1	0	0		0	0	0	1	1	0	0		
60	0	0	0	0	0	0	0		0	0	0	1	1	0	0		0	1	1	1	1	0	0		0	1	0	1	1	0	0		
64	0	0	0	0	0	0	0		0	1	1	0	0	0	0		0	1	1	1	1	0	0		0	1	1	1	0	0	0		
68	0	0	0	0	0	1	0		0	1	1	0	0	1	0		0	1	1	0	0	0	0		0	1	1	0	0	-1	-1		
72	0	0	0	0	0	1	0		0	1	0	0	0	1	0		0	1	0	0	0	0	0		0	0	0	0	-1	-1	-1		
76	0	0	0	-1	0	1	0		1	1	0	-1	0	1	0		0	1	0	-1	-1	0	0		0	0	0	-1	-1	-1	-1		
80	0	0	-1	-1	0	1	0		1	1	0	-1	-1	1	0		0	0	0	-1	-1	0	0		0	0	0	-1	-1	-1	-1		
OCTOBER																																	
18	0	0	0	2	3	3	1		0	0	0	1	3	3	2		0	0	0	0	2	2	2		0	0	0	0	1	2	1		
20	0	0	0	3	4	4	2		0	0	0	1	3	4	2		0	0	0	0	2	3	2		0	0	0	0	1	1	1		
24	0	-1	0	3	5	6	3		0	0	-1	1	3	4	3		0	0	-1	-1	1	2	2		0	0	-1	-2	-1	0	0		
28	0	-1	0	3	6	7	4		0	-1	-1	0	2	4	3		0	0	-2	-3	-2	0	0		0	0	-2	-4	-4	-3	-2		
32	0	-1	-1	2	5	7	5		0	-1	-2	-2	0	2	2		0	-1	-3	-5	-5	-3	-1		1	0	-2	-6	-8	-7	-4		
36	-1	-1	-1	0	3	5	3		0	-1	-3	-3	-3	-1	0		0	-1	-3	-5	-7	-6	-3		1	0	-2	-5	-7	-4			
40	-1	-1	-2	-2	0	1	1		0	-1	-2	-4	-4	-4	-2		0	-1	-2	-5	-6	-6	-3		1	0	-2	-5	-7	-4			
44	-1	-1	-2	-2	-2	-3	-1		0	-1	-2	-3	-4	-5	-3		0	-1	-2	-4	-4	-5	-3		1	0	-1	-3	-4	-4			
48	-1	-1	-1	-2	-3	-4	-2		0	-1	-2	-3	-4	-5	-3		0	0	-2	-3	-3	-4	-3		1	0	-1	-3	-3	-2			
52	0	-1	-1	-2	-3	-4	-2		0	-1	-1	-3	-3	-4	-2		0	0	-2	-3	-2	-2	-2		1	0	-1	-2	-2	-1	-2		
56	0	-1	-1	-2	-4	-4	-2		0	-1	-1	-2	-3	-2	-1		0	-1	-1	-1	-1	0	-1		0	0	-1	0	1	2	0		
60	0	0	-1	-2	-3	-3	-1		0	-1	-1	-1	-2	0	0		-1	-1	-1	0	0	2	0		0	0	0	1	2	3	1		
64	0	0	-1	-2	-2	-1	-1		0	0	-1	-1	-1	1	0		-1	0	0	1	1	3	1		0	0	1	2	2	4	1		
68	0	0	-1	-1	-1	0	-1		0	0	0	0	0	2	1		0	1	1	1	1	3	2		0	0	1	2	2	3	2		
72	0	1	0	0	0	0	-1		0	1	1	1	1	2	1		0	1	1	1	1	3	2		0	1	1	2	2	3	2		
76	0	1	1	0	1	1	-1		1	2	1	1	1	2	1		1	2	1	1	1	3	3		1	1	1	1	1	2	3		
80	0	1	1	1	1	1	-1		1	2	1	1	2	2	1		1	2	1	1	1	2	3		1	2	1	1	1	2	3		
NOVEMBER																																	
18	0	-1	1	5	6	5	3		1	0	0	3	5	7	4		1	0	-1	1	3	6	4		0	0	-1	-1	1	4	3		
20	0	-1	1	6	8	7	4		0	-1	-1	3	7	8	5		1	0	-2	0	4	7	5		1	0	-1	-1	1	4	4		
24	-1	-2	1	7	11	10	6		0	-2	-1	3	8	11	7		0	-1	-2	0	4	8	6		1	0	-2	-2	1	3	4		
28	-2	-3	0	6	11	11	6		-1	-2	-2	3	8	10	6		0	-2	-3	-1	3	5	4		0	-1	-3	-3	-2	0	1		
32	-2	-3	-1	4	9	9	6		-2	-3	-3	1	5	6	3		-1	-2	-3	-2	0	1	0		0	-1	-3	-3	-4	-4	-3		
36	-2	-3	-2	0	4	5	3		-2	-2	-2	-1	0	0	0		-1	-2	-2	-2	-3	-4	-3		0	-1	0	-2	-4	-6	-4		
40	-2	-2	-2	-3	-1	0	0		-2	-1	-1	-2	-3	-4	-3		-1	-1	0	-1	-4	-6	-4		0	-1	0	-2	-4	-6	-4		
44	-1	-1	-2	-3	-3	-2	-2		-1	-1	-1	-2	-4	-5	-3		-1	0	0	-1	-4	-5	-4		0	0	0	-1	-4	-4	-3		
48	-1	-1	-2	-2	-2	-2	-2		-1	0	-1	-2	-4	-4	-3		0	0	0	-2	-4	-5	-4		0	0	0	-2	-5	-5	-3		
52	0	0	-2	-2	-2	-2	-2		0	0	-1	-3	-5	-5	-4		0	0	-1	-3	-6	-6	-4		0	0	-1	-4	-6	-6	-3		
56	1	1	-1	-3	-4	-4	-3		0	1	-1	-4	-6	-7	-5		0	0	-1	-4	-7	-7	-4		0	0	0	-3	-5	-5	-2		
60	1	2	0	-3	-6	-5	-3		1	2	0	-4	-7	-7	-4		0	1	0	-3	-5	-6	-3		0	0	1	-1	-2	-3	-1		
64	2	2	1	-3	-7	-5	-3		1	2	1	-3	-6	-6	-3		1	1	1	-2	-4	-4	-2		0	1	1	0	0	-2	-1		
68	1	1	0	-2	-6	-5	-3		1	1	1	-2	-4	-4	-3		1	1	1	0	-2	-3	-2		1	1	1	1	1	0	0		
72	1	0	0	-2	-5	-4	-2		1	1	1	-1	-3	-3	-2		1	1	1	1	0	-1	-1		1	1	1	2	2	1	1		
76	0	-1	-1	-1	-3	-4	-2		1	0	0	0	-1	-2	-1		1	1	1	1	1	0	0		1	1	1	2	3	2	1		
80	-1	-1	-1	-1	-3	-3	-1		1	0	0	1	-1	-1	0		1	1	1	2	2	1	0		1	1	1	2	3	2	1		
DECEMBER																																	
18	-1	0	3	9	11	8	3		0	0	3	8	12	11	5		0	0	2	5	9	10	6		1	0	0	1	4	5	4		
20	-1	-1	4	11	13	10	4		0	0	3	10	14	13	6		0	0	1	6	10	11	7		1	-1	-1	0	4	6	5		
24	-2	-2	4	13	16	13	6		-1	-2	2	10	16	14	7		0	-1	-1	4	9	10	6		1	-1	-4	-3	1	3	3		
28	-2	-2	2	11	14	12	6		-1	-3	-2	5	11	9	4		-1	-3	-5	-2	3	4	1		0	-2	-6	-8	-5	-3	-1		
32	-1	-3	-1	6	8	6	4		-2	-4	-5	-1	2	0	0		-1	-4	-8	-6	-6	-6	-3		0	-2	-7	-12	-10	-9	-5		
36	-1	-3	-3	-2	-1	0	2		-1	-4	-7	-8	-8	-7	-3		-1	-4	-9	-12	-12	-11	-6		0	-1	-6	-11	-11	-10	-4		
40	0	-2	-5	-7	-7	-5	-1		-1	-3	-7	-11	-12	-10	-4		-1	-2	-7	-11	-13	-11	-5		0	0	-3	-6	-8	-7	-4		
44	0	-1	-4	-8	-9	-6	-2		0	-2	-5	-9	-11	-9	-3		0	-1	-3	-7	-9	-8	-3		0	1	0	-2	-4	-4	-3		
48	0	-1	-4	-7	-8	-6	-2		0	-1	-3	-7	-9	-7	-3		0	0	-1	-4	-7	-6	-3		0	2	1	0					

N HEMISPHERE

TEMPERATURE - (ZONAL MEAN TEMPERATURE) (K)

KM LAT	LONGITUDE 60 W							LONGITUDE 30 W							LONGITUDE 0 DEG							LONGITUDE 30 E						
	20	30	40	50	60	70	80	20	30	40	50	60	70	80	20	30	40	50	60	70	80	20	30	40	50	60	70	80

SEPTEMBER

18	0	0	0	0	1	1	0	1	1	0	0	1	1	0	0	1	0	0	0	0	0	0	0	0	0	0	-1	-1	0
20	0	0	0	0	1	1	1	1	1	0	0	1	1	0	1	1	0	0	0	0	0	0	0	0	0	0	-1	-1	-1
24	0	0	0	0	1	1	1	1	1	0	0	1	1	0	1	1	0	-1	-1	0	0	0	0	0	0	0	-1	-1	-1
28	0	0	0	0	1	1	0	1	1	0	0	0	0	0	1	1	0	-1	-1	-1	0	0	0	0	0	0	-1	-1	0
32	0	0	0	0	0	0	0	0	0	0	0	-1	-1	0	0	1	0	-1	-1	-1	0	0	0	0	0	0	-1	-1	0
36	0	0	0	0	-1	-1	0	0	0	0	-1	-1	-1	0	0	0	0	0	-1	-1	0	0	0	0	0	0	0	0	0
40	0	0	0	0	-1	-1	0	0	0	0	0	-1	-1	0	0	0	0	0	-1	-1	0	0	0	0	1	1	1	0	0
44	0	0	0	0	-1	-1	0	0	0	0	0	-1	-1	0	0	0	0	0	0	0	0	0	0	0	1	1	1	0	0
48	0	0	0	0	-1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	1	0	0
52	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	1	1	1	0	0
56	1	0	0	0	0	1	1	0	0	0	0	0	0	0	1	0	0	0	0	0	0	1	0	0	0	0	0	0	0
60	1	1	0	0	0	0	0	1	0	0	0	0	0	0	1	0	0	0	0	0	0	1	0	0	0	0	0	0	0
64	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
68	0	0	0	0	0	-1	-1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	1
72	-1	0	0	0	0	-1	-1	-1	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	1	0	1	1
76	-1	0	0	0	0	-1	-1	-1	-1	0	0	0	-1	-1	-1	0	0	1	1	0	0	0	0	1	1	1	1	1	1
80	-1	-1	0	0	-1	-1	-1	-2	-1	0	0	0	-1	-1	-1	0	0	1	1	0	1	0	0	0	1	1	1	1	1

OCTOBER

18	0	0	0	0	1	1	0	0	1	0	0	0	0	0	1	1	0	-1	-1	-1	-1	0	0	0	-2	-3	-3	-1	-1
20	0	1	0	0	0	0	0	1	1	0	-1	-1	-1	-1	1	1	0	-1	-2	-2	-2	0	1	0	-2	-4	-3	-2	-2
24	0	1	0	-2	-2	-2	-1	1	1	0	-2	-3	-3	-2	1	1	0	-2	-4	-5	-3	1	1	0	-2	-5	-5	-3	-3
28	1	1	-1	-4	-5	-5	-3	1	1	0	-3	-6	-7	-4	1	1	1	-3	-6	-7	-4	0	1	1	-1	-4	-5	-3	-3
32	1	1	-1	-5	-9	-9	-6	1	1	0	-4	-8	-9	-6	1	1	1	-2	-6	-8	-5	0	1	2	1	-2	-4	-3	-3
36	1	0	-1	-5	-9	-9	-6	1	1	0	-4	-8	-9	-6	1	1	1	-1	-5	-6	-4	0	1	2	2	1	-1	-1	-1
40	1	0	-1	-4	-7	-6	-4	1	1	0	-3	-6	-5	-3	0	1	1	0	-2	-3	-1	0	1	2	3	3	2	1	1
44	1	0	-1	-2	-4	-3	-1	1	1	0	-1	-2	-2	0	0	1	1	1	0	0	1	0	1	2	3	4	4	2	2
48	1	0	0	-2	-2	-1	-1	1	1	0	0	-1	0	1	0	1	1	2	1	2	2	0	1	2	3	4	4	3	3
52	1	1	0	-1	-1	0	0	1	1	1	0	0	1	1	0	1	1	2	2	2	2	0	0	2	3	4	3	2	2
56	1	1	0	1	1	3	1	1	1	1	2	2	4	1	1	1	2	2	3	3	2	0	0	1	3	3	2	2	2
60	0	0	1	2	3	4	1	1	1	2	2	3	5	1	1	1	2	3	3	3	1	0	0	1	2	2	1	1	1
64	0	0	1	2	3	4	1	0	0	2	3	3	4	1	0	0	1	3	3	3	1	0	0	1	1	1	0	0	0
68	0	0	1	2	3	4	1	0	0	1	2	3	3	0	0	0	1	2	2	2	0	0	0	0	0	1	-1	0	0
72	0	0	1	2	2	3	1	-1	-1	1	2	2	3	0	-1	-1	0	1	2	1	0	0	-1	-1	0	0	-1	0	0
76	-1	0	1	2	1	2	1	-1	-1	0	1	1	2	0	-2	-2	0	0	1	0	-1	-1	-1	-1	-1	0	-1	0	0
80	-1	0	1	1	1	1	1	-2	-1	0	1	1	1	-1	-2	-2	-1	0	0	0	-1	-1	-2	-2	-1	-1	-2	-1	-1

NOVEMBER

18	0	0	-1	-1	0	1	1	1	1	-1	-2	-1	-1	-1	1	1	-1	-3	-3	-4	-3	0	1	-1	-4	-5	-6	-4	-4
20	1	1	-1	-2	-1	1	1	1	1	-1	-3	-2	-2	-1	1	1	-1	-4	-5	-5	-4	1	1	-1	-5	-7	-7	-5	-5
24	1	0	-2	-3	-3	-1	0	1	1	-2	-5	-6	-5	-3	1	2	-2	-6	-9	-9	-6	1	2	-1	-7	-10	-10	-6	-6
28	1	0	-3	-5	-5	-5	-3	1	1	-2	-7	-9	-8	-5	2	2	-2	-7	-11	-10	-6	2	3	0	-6	-10	-9	-5	-5
32	1	0	-3	-5	-7	-8	-5	1	1	-2	-7	-10	-9	-6	2	2	-1	-6	-10	-9	-5	2	3	2	-3	-6	-6	-3	-3
36	1	0	-2	-4	-7	-8	-5	1	1	-2	-5	-8	-7	-4	2	2	0	-3	-6	-5	-2	1	2	3	1	-1	-1	0	0
40	0	0	-1	-3	-5	-5	-3	1	1	0	-3	-5	-4	-2	1	1	1	0	-2	-2	0	1	2	3	4	4	3	2	2
44	0	0	0	-2	-4	-4	-2	1	1	1	-2	-3	-3	-1	1	2	2	1	-1	0	1	1	2	3	4	4	3	3	3
48	0	0	0	-3	-5	-4	-2	1	1	1	-2	-3	-2	0	1	2	3	1	0	1	2	0	1	3	5	6	5	4	4
52	0	1	0	-3	-5	-4	-1	1	1	2	-1	-2	-1	1	1	2	3	2	2	2	3	0	1	3	5	6	5	4	4
56	0	0	1	-1	-2	-1	0	0	1	2	1	2	2	2	0	0	2	3	5	5	3	-1	-1	2	4	7	6	4	4
60	0	1	1	1	1	0	1	-1	0	2	4	5	4	2	-1	0	2	4	7	6	3	-2	-2	0	4	7	7	3	3
64	0	1	2	3	3	2	1	-1	0	2	5	6	5	2	-2	-1	1	4	7	7	3	-2	-2	-1	3	6	6	2	2
68	0	1	2	3	4	3	2	-1	0	2	5	7	5	3	-1	0	1	4	7	6	3	-1	-1	-1	2	5	5	2	2
72	0	1	2	3	5	3	2	-1	0	1	4	6	5	2	-1	0	1	3	6	5	2	0	0	0	1	3	4	1	1
76	0	1	1	3	5	4	2	0	0	1	3	5	4	2	0	0	1	3	4	4	2	1	0	0	1	2	3	1	1
80	0	0	1	3	5	3	1	0	0	1	3	5	4	2	0	1	1	2	3	3	2	1	1	1	0	1	2	1	1

DECEMBER

18	1	-1	-3	-3	-1	0	1	1	-1	-5	-6	-5	-3	-1	1	0	-4	-7	-7	-5	-2	1	1	-3	-8	-9	-7	-3	-3
20	1	-1	-4	-4	-2	0	1	1	0	-5	-8	-7	-5	-2	2	1	-5	-9	-10	-7	-4	1	2	-3	-9	-11	-9	-5	-5
24	1	-1	-5	-8	-6	-4	-1	2	0	-5	-10	-10	-8	-4	2	2	-3	-10	-12	-10	-6	2	3	-1	-8	-12	-11	-4	-4
28	1	0	-5	-10	-10	-7	-3	2	2	-3	-9	-11	-9	-4	2	3	0	-6	-10	-9	-5	1	3	2	-3	-7	-7	-4	-4
32	1	1	-3	-10	-11	-8	-4	2	3	1	-5	-8	-6	-4	1	3	4	0	-4	-4	-3	1	3	5	3	1	-1	-1	-1
36	1	2	0	-5	-7	-6	-4	1	4	5	1	-2	-2	-2	1	3	7	6	3	1	-1	0	2	6	8	7	4	1	1
40	1	3	3	0	-3	-3	-3	1	4	7	6	2	1	-1	0	3	8	9	6	3	1	0	1	6	10	9	6	2	2
44	1	3	4	3	1	-1	-2	1	3	6	7	4	2	0	0	2	6	8	6	4	2	0	0	3	7	8	6	3	3
48	1	3	4	4	1	-1	-1	1	3	5	6	4	2	0	0	2	5	6	5	4	2	0	0	2	5	6	4	3	3
52	0	3	4	3	1	-1	-2	0	2	5	5	3	1	0	0	2	4	5	5	4	2	-1	-1	0	2	4	4	3	3
56	0	2	3	4	3	0	-1	0	2	3	4	4	2	1	0	1	3	4	5	4	2	-1	-1	0	2	4	4	3	3
60	0	2	3	5	4	2	0	0	1	3	4	5	3	1	0	0	2	3	5	4	2	-1	-1	0	2	4	4	3	3
64	0	1	3	4	5	3																							

N HEMISPHERE

TEMPERATURE - (ZONAL MEAN TEMPERATURE) (K)

KN LAT=	LONGITUDE 60 E								LONGITUDE 90 E								LONGITUDE 120 E								LONGITUDE 150 E								BODEG
	20	30	40	50	60	70	80	20	30	40	50	60	70	80	20	30	40	50	60	70	80	20	30	40	50	60	70	80					
SEPTEMBER																																	
18	0	0	0	0	-1	-1	-1	-1	-1	0	0	0	-1	0	-1	-1	0	1	0	0	0	0	0	0	0	0	1	0	0	0	0		
20	-1	-1	0	0	-1	-1	-1	-1	-1	0	1	0	-1	0	-1	-1	0	1	0	0	0	0	0	0	0	0	1	1	0	0	0		
24	-1	-1	0	0	-1	-1	-1	-1	-1	0	1	0	0	0	-1	-1	0	1	1	1	0	0	0	0	0	0	1	1	0	0	0		
28	-1	-1	0	0	0	-1	0	-1	-1	0	1	1	0	0	-1	-1	0	1	1	1	0	0	0	0	0	0	1	1	0	0	0		
32	0	0	0	0	0	0	0	0	-1	-1	0	1	1	1	0	0	-1	0	1	1	1	0	0	0	0	0	0	1	1	0	0		
36	0	0	0	1	1	1	1	0	0	0	0	1	2	2	1	0	0	0	0	1	2	1	0	0	0	0	0	0	1	0	0		
40	0	0	0	1	2	1	1	0	0	0	0	0	2	2	1	0	0	0	0	1	1	1	0	0	0	0	-1	0	0	0	0		
44	0	0	0	1	2	1	1	0	0	0	0	0	1	2	1	0	0	0	0	0	0	0	0	0	0	0	-1	0	0	0	0		
48	0	0	0	1	1	1	0	0	0	0	0	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	-1	-1	0	0	0		
52	0	0	0	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	-1	0	0	0	0	0	0	0	-1	-1	-1	0	0		
56	-1	0	0	0	0	0	0	-1	-1	0	0	0	0	0	0	0	-1	0	-1	-1	-1	0	0	0	0	0	-1	-1	-1	0	0		
60	-1	-1	0	0	0	0	0	-1	-1	-1	-1	-1	-1	0	0	0	-1	-1	-1	-1	-1	0	0	0	0	-1	-1	-1	0	0	0		
64	-1	-1	-1	0	0	0	0	-1	-1	-1	0	-1	-1	0	0	0	-1	-1	-1	-1	-1	0	0	0	0	-1	0	0	0	0	0		
68	0	0	0	0	0	0	0	0	-1	-1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
72	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0		
76	1	0	0	1	1	0	1	1	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
80	1	0	0	1	1	0	1	1	0	0	0	1	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0		
OCTOBER																																	
18	0	0	0	-2	-4	-3	-2	-1	-1	0	-1	-3	-3	-1	-1	-1	0	1	0	-1	0	0	-1	0	0	-1	0	2	2	1	0		
20	0	0	0	-2	-4	-4	-2	-1	-1	0	-1	-2	-3	-1	-1	-1	0	1	0	0	0	0	-1	-1	0	0	3	3	2	1			
24	0	0	0	-1	-3	-4	-2	-1	-1	1	1	0	-1	1	-1	-1	1	3	3	2	1	0	-1	-1	1	4	6	5	3				
28	0	0	2	1	0	-1	-1	-1	-1	2	4	4	3	2	-1	-1	1	6	8	7	4	-1	-1	1	5	8	8	5					
32	0	1	3	4	4	2	1	-1	0	3	6	9	8	4	-1	-1	2	7	11	11	6	-1	-1	2	7	12	13	7					
36	0	1	3	6	7	5	3	-1	0	3	7	11	11	6	-1	0	2	7	12	13	7	-1	-1	0	4	9	10	6					
40	0	1	3	6	8	7	3	0	1	2	7	10	10	5	0	0	1	5	9	10	5	-1	-1	0	1	5	6	3					
44	0	1	2	5	7	6	3	0	0	2	5	7	7	3	0	0	1	3	5	5	2	-1	-1	-1	0	1	1	1					
48	0	0	2	4	6	6	3	0	0	1	3	5	6	2	-1	0	0	2	3	3	1	-1	-1	0	-1	-1	-1	-1					
52	0	0	1	3	5	4	2	-1	0	1	2	4	4	1	-1	0	0	1	1	1	1	-1	-1	0	-1	-1	-1	-1					
56	0	0	1	2	3	1	1	-1	0	0	1	1	-1	0	-1	0	0	-1	-1	-3	-1	-1	0	-1	-1	-2	-3	-4					
60	0	0	0	1	1	-2	0	0	0	0	-1	-1	-4	-1	0	0	0	-1	-2	-3	-5	-2	0	0	-1	-3	-4	-4					
64	0	0	0	0	-1	-3	0	0	0	-1	-2	-3	-5	-1	0	0	-2	-3	-4	-5	-2	0	0	-2	-3	-4	-4						
68	0	0	-1	-1	-1	-4	0	0	0	-1	-3	-3	-5	-1	0	0	-1	-3	-4	-5	-2	0	0	-1	-2	-3	-3						
72	0	-1	-1	-2	-2	-4	0	1	-1	-2	-2	-3	-5	-1	0	0	-1	-2	-3	-4	-2	0	0	0	-1	-2	-2	-2					
76	0	-1	-2	-2	-2	-3	0	1	-1	-2	-2	-3	-4	-1	0	-1	-1	-1	-2	-3	-2	0	0	0	0	-1	-1	-2					
80	0	-1	-2	-2	-2	-3	0	1	-1	-2	-2	-2	-3	0	0	-1	-1	-1	-2	-2	-2	0	0	0	0	0	0	0					
NOVEMBER																																	
18	0	0	0	-4	-6	-7	-4	-1	0	1	-1	-4	-5	-3	-1	-1	2	3	0	-2	-2	-1	-1	2	5	4	2	0					
20	0	1	0	-4	-7	-8	-5	-1	0	2	-1	-4	-6	-4	-2	-1	3	4	1	-2	-2	-1	-1	3	6	6	3	1					
24	0	2	1	-4	-8	-9	-6	-1	1	3	1	-3	-5	-4	-2	-1	4	6	4	1	-1	-2	-2	3	8	9	7	3					
28	1	3	3	-1	-5	-6	-3	0	2	5	4	2	0	-1	-1	0	4	8	8	5	2	-2	-2	3	9	12	10	5					
32	1	3	4	2	0	0	0	0	2	5	7	7	5	3	-1	0	4	8	10	9	5	-2	-2	1	7	11	11	6					
36	1	3	4	5	5	4	3	1	2	4	7	9	9	5	0	0	2	6	10	10	6	-2	-2	-1	3	8	9	5					
40	1	2	3	6	7	6	4	1	1	2	5	9	9	5	0	0	-1	2	7	8	5	-1	-2	-2	1	3	5	3					
44	1	1	2	5	7	6	4	0	0	0	4	8	7	4	-1	-1	-2	0	5	6	3	-1	-2	-3	-2	1	2	1					
48	0	0	2	5	7	6	4	0	-1	0	4	7	7	4	-1	-2	-2	0	5	5	2	-1	-2	-3	-2	1	2	0					
52	0	0	2	5	8	7	4	0	-2	0	4	8	7	4	0	-2	-2	1	5	5	2	0	-1	-2	-1	1	2	0					
56	-1	-2	0	4	7	6	4	0	-2	-1	3	6	5	3	1	-1	-1	1	3	3	1	1	1	-1	-1	-1	-1	-1					
60	-1	-3	-1	2	5	5	3	0	-2	-2	1	3	3	2	1	0	-2	-1	-1	0	0	2	1	-1	-2	-4	-3	-2					
64	-2	-3	-2	0	3	4	2	0	-2	-3	-2	0	1	1	1	0	-2	-3	-3	-2	0	2	1	0	-3	-6	-4	-2					
68	-1	-2	-2	-1	1	2	1	-1	-2	-3	-3	-2	-1	0	0	-1	-2	-3	-5	-3	-1	1	0	-1	-3	-6	-5	-2					
72	0	-1	-1	-2	0	1	0	-1	-1	-2	-3	-3	-2	-1	-1	-1	-2	-4	-5	-4	-1	0	-1	-1	-3	-6	-5	-2					
76	0	0	-1	-2	-1	0	0	-1	-1	-2	-4	-4	-3	-1	-1	-1	-2	-4	-5	-5	-2	-1	-2	-2	-3	-5	-5	-2					
80	1	1	0	-2	-2	-1	0	-1	0	-1	-3	-4	-3	-1	-2	-2	-2	-4	-5	-4	-2	-2	-2	-2	-3	-4	-4	-2					
DECEMBER																																	
18	0	1	0	-6	-10	-8	-4	-1	0	1	-3	-7	-8	-4	-2	-1	3	2	-2	-4	-3	-1	-1	3	7	6	2	-1					
20	0	2	0	-6	-11	-10	-5	-1	1	2	-2	-8	-9	-5	-2	-1	3	4	-1	-4	-3	-2	-1	4	8	8	3	0					
24	0	3	2	-4	-10	-9	-5	-1	1	4	1	-4	-6	-3	-2	0	5	7	4	0	0	-2	-2	5	11	12	8	3					
28	1	3	4	1	-3	-3	-2	0	1	5	5	3	2	1	-1	0	5	9	8	7	4	-1	-1	2	9	11	10	6					
32	0	2	5	6	6	4	1	0	1	4	8	9	9	4	0	0	4	9	11	11	7	0	-1	0	4	6	7	5					
36	0	1	4	9	11	8	3	0	0	2	8	12	11	5	0	0	2	7	10	11	7	0	-1	-2	-2	0	2	3					
40	0	-1	2	8	11	8	4	0	-1	0	6	11	10	5	0	0	-1	3	7	8	4	0	-1	-3	-4	-3	-1	0					
44	0	-1	0	5	9	7	3	0	-1	-1	3	7	7	3	0	-1	-2	0	3	4	2	0	-2	-3	-4	-4	-2	-1					
48	-1	-1	0	3	6	6	3	-1	-2	-2	1	5	5	2	-1	-3	-4																

N HEMISPHERE

TEMPERATURE - (ZONAL MEAN TEMPERATURE) (K)

KN LAT	LONGITUDE 180 DEG								LONGITUDE 150 W								LONGITUDE 120 W								LONGITUDE 90 W								BODEG
	20	30	40	50	60	70	80	20	30	40	50	60	70	80	20	30	40	50	60	70	80	20	30	40	50	60	70	80					
JANUARY																																	
18	0	1	5	10	15	16	9	0	1	3	7	11	14	9	0	0	0	2	4	7	6	0	-1	-2	-2	-3	-2	1					
20	-1	1	5	12	18	20	11	0	1	3	8	13	16	10	0	0	0	1	4	7	6	0	-1	-3	-3	-4	-2	1					
24	-1	0	5	12	19	20	12	0	0	2	7	12	16	10	0	-1	-2	-1	2	6	5	0	-2	-4	-5	-5	-4	-1					
28	-1	-1	2	8	14	14	8	-1	-2	-1	2	6	8	5	0	-2	-4	-4	-2	1	1	0	-2	-5	-6	-5	-4	-2					
32	-1	-2	-2	2	5	5	3	-1	-3	-5	-4	-1	0	0	-1	-3	-6	-7	-5	-4	-2	0	-1	-4	-6	-5	-4	-3					
36	-1	-3	-5	-5	-4	-4	-1	-1	-4	-8	-9	-9	-8	-4	-1	-3	-7	-9	-8	-7	-5	0	0	-3	-4	-3	-4	-4					
40	-1	-3	-7	-10	-12	-9	-3	-1	-4	-8	-12	-13	-12	-5	-1	-2	-6	-8	-8	-8	-5	0	0	-1	-2	-2	-3	-4					
44	-1	-3	-7	-11	-13	-11	-4	-1	-3	-6	-11	-13	-12	-5	0	-1	-3	-6	-7	-7	-4	0	1	0	-1	-1	-2	-3					
48	0	-2	-5	-8	-12	-11	-5	0	-2	-4	-8	-11	-10	-4	0	-1	-2	-5	-6	-5	-3	1	1	1	0	0	0	-1					
52	-1	-2	-3	-6	-9	-9	-5	0	-1	-3	-6	-9	-7	-4	0	0	-1	-3	-4	-2	-1	1	1	1	2	2	3	1					
56	-1	-1	-1	-5	-8	-8	-5	0	0	0	-3	-6	-4	-3	0	1	1	1	0	1	-1	1	1	1	4	5	5	3					
60	0	0	0	-3	-6	-6	-5	0	1	2	0	-2	-2	-3	0	2	2	4	3	3	0	1	1	2	5	7	6	4					
64	0	0	0	-1	-4	-4	-4	0	1	2	2	1	0	-2	0	2	2	5	5	4	1	0	1	2	5	8	6	4					
68	0	0	0	1	-1	-1	-2	0	1	1	4	3	2	-1	0	1	1	5	6	4	1	0	1	1	4	6	6	4					
72	0	0	0	2	1	0	-1	0	1	0	4	4	3	0	0	1	1	4	6	4	2	0	0	1	3	5	4	3					
76	0	0	0	3	3	2	0	0	0	0	4	5	3	1	0	0	0	4	5	3	2	0	0	0	2	3	3	2					
80	0	0	-1	3	4	3	1	0	0	-1	4	5	3	2	0	0	-1	3	5	3	2	0	0	0	1	2	2	2					
FEBRUARY																																	
18	-1	0	3	6	11	9	4	0	1	1	5	10	10	7	1	1	0	3	6	8	7	1	0	-1	1	0	4	4					
20	-3	0	1	6	13	12	4	-2	0	2	5	12	12	9	0	1	2	3	6	9	10	2	0	1	1	-1	3	6					
24	-1	1	5	8	12	12	7	0	0	2	6	10	13	7	1	-2	-1	2	4	8	6	1	-2	-3	-2	0	2	3					
28	0	0	2	7	10	8	5	-1	0	1	4	5	6	3	-1	-1	-1	0	0	3	1	0	-1	-2	-4	-2	0	0					
32	1	-2	-3	0	3	2	3	0	-1	-3	-3	-1	-1	-1	-1	0	-1	-3	-4	-3	-3	-1	1	0	-3	-5	-3	-2					
36	0	-2	-4	-4	-3	-3	-1	-1	-2	-3	-6	-7	-7	-4	-1	0	-2	-4	-6	-7	-4	0	0	-1	-3	-4	-4	-2					
40	1	0	-5	-6	-9	-8	-4	0	0	-4	-5	-10	-11	-5	-1	-1	-1	-4	-6	-8	-3	-1	-2	0	-3	-3	-4	-2					
44	0	-1	-3	-5	-6	-7	-2	0	-1	-3	-5	-9	-9	-4	0	-1	-3	-4	-8	-7	-4	0	0	-1	-3	-4	-4	-4					
48	0	-2	-2	-3	-7	-7	-3	0	-2	-2	-4	-7	-7	-4	0	-1	-2	-3	-4	-6	-3	0	0	-1	-2	-2	-3	-2					
52	-1	-1	-1	-3	-6	-7	-3	0	-1	-1	-3	-6	-6	-3	0	-1	-1	-2	-4	-5	-2	0	-1	-1	-1	-1	-1	-1					
56	-1	0	0	-3	-6	-7	-3	0	0	0	-2	-5	-5	-2	0	0	1	0	-2	-3	-2	0	-1	0	1	1	1	0					
60	0	0	0	-3	-6	-6	-3	0	1	1	-1	-3	-4	-2	0	1	2	1	0	-1	-1	0	0	1	3	3	3	0					
64	0	1	0	-2	-5	-5	-3	1	2	2	0	-2	-2	-2	1	1	2	2	2	1	-1	0	0	1	3	5	4	1					
68	1	1	0	-1	-3	-4	-3	1	2	2	1	0	-1	-2	1	2	2	3	3	2	0	0	1	1	3	5	5	1					
72	0	0	0	0	-1	-2	-3	1	1	1	2	1	0	-1	1	1	1	3	3	3	0	0	1	1	3	5	5	2					
76	0	0	0	1	0	-1	-3	1	1	1	2	2	1	-1	1	1	1	2	4	3	0	0	1	1	2	4	4	2					
80	0	0	0	1	1	0	-2	0	0	0	2	3	2	-1	1	1	1	2	4	3	0	0	1	1	2	4	4	2					
MARCH																																	
18	0	0	3	6	8	8	6	0	0	2	5	8	9	6	0	0	1	4	7	8	5	0	0	0	3	5	6	4					
20	-1	0	3	7	9	10	6	0	0	2	6	9	10	7	0	0	1	4	8	9	6	1	0	0	3	6	6	4					
24	-1	0	3	7	10	9	5	0	0	1	5	9	9	6	0	0	0	3	7	8	5	0	0	-1	1	5	6	3					
28	-1	-1	0	4	6	6	3	0	-1	-1	2	5	5	3	0	-1	-2	0	3	4	3	0	-1	-2	-1	1	2	1					
32	-1	-2	-2	-1	0	0	-1	-1	-2	-3	-3	-2	-1	-1	0	-2	-3	-4	-3	-2	-1	0	-1	-3	-5	-4	-3	-1					
36	-1	-2	-4	-5	-5	-5	-4	-1	-2	-4	-7	-8	-7	-4	-1	-2	-4	-7	-8	-7	-4	0	-1	-3	-6	-8	-7	-3					
40	0	-2	-5	-7	-8	-8	-6	-1	-2	-4	-8	-10	-10	-7	-1	-1	-3	-7	-10	-10	-6	0	-1	-2	-6	-9	-8	-5					
44	0	-1	-4	-6	-8	-8	-5	-1	-1	-3	-7	-9	-10	-6	0	-1	-3	-6	-9	-9	-5	0	0	-1	-5	-7	-7	-4					
48	0	-1	-2	-5	-7	-7	-4	0	-1	-2	-6	-8	-8	-4	0	-1	-2	-5	-7	-7	-4	0	0	-1	-3	-4	-4	-3					
52	0	-1	-2	-5	-7	-7	-4	0	-1	-2	-5	-8	-7	-4	0	-1	-1	-4	-5	-5	-3	0	0	0	-1	-1	-2	-1					
56	0	0	-2	-5	-8	-8	-5	0	0	-1	-4	-7	-6	-3	0	0	0	-1	-3	-3	-1	0	0	1	2	2	1	0					
60	0	0	-1	-4	-7	-7	-4	0	0	-1	-2	-4	-4	-3	0	0	1	1	0	-1	-1	0	0	1	3	3	2	1					
64	0	1	-1	-2	-4	-5	-4	1	1	0	0	-2	-2	-2	0	1	1	2	1	0	0	0	0	2	4	4	3	2					
68	0	1	-1	-1	-2	-2	-2	1	1	0	1	0	-1	-1	1	1	1	2	2	1	1	0	1	1	3	3	3	2					
72	0	0	0	0	0	-1	-1	1	1	0	1	2	1	0	1	1	1	2	2	1	1	1	1	1	2	2	2	1					
76	0	0	0	0	1	0	0	1	1	0	1	2	1	0	1	1	1	2	2	1	1	1	1	1	1	1	1	1					
80	0	0	0	1	2	1	0	1	1	0	1	2	2	1	1	1	1	1	2	1	1	1	1	1	1	1	1	1					
APRIL																																	
18	0	0	1	2	2	1	0	0	0	0	1	1	1	0	0	0	0	0	1	1	1	0	0	-1	-1	0	0	1					
20	0	0	1	3	3	1	0	0	0	0	1	1	1	1	0	0	0	0	0	1	1	0	0	-1	-1	0	0	1					
24	0	0	0	2	2	1	1	0	0	0	1	1	1	1	0	0	-1	-1	0	0	1	0	0	-1	-2	-1	0	1					
28	0	0	-1	1	1	1	1	0	0	-1	-1	0	0	0	0	0	-1	-2	-1	0	0	0	0	-2	-1	0	0	0					
32	0	0	-1	-2	-1	0	0	0	0	-1	-2	-1	0	0	0	0	-1	-2	-2	-1	0	0	0	0	-1	-1	-1	0					
36	0	0	-2	-3	-2	-1	0	0	0	-2	-3	-2	-1	0	0	0	-1	-2	-2	-1	-1	0	0	0	0	-1	-1	-1					
40	0	0	-1	-3	-2	-1	0	0	0	-1	-3	-2	-1	-1	0	0	-1	-2	-2	-1	-1	0	0	0	0	-1	-1	-1					
44	0	0	-1	-2	-2	-1	0	0	0	-1	-2	-2	-1	-1	0	0	0	-1	-1	-1	-1	0	0	0	0	0	0	0					
48	0	0	0	-1	-1	-1	0	0	0	0	0	-1	-1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0					
52	0	0	1	1	0	-1	0	0	0	1	1	0	0	0	0	0	0	1	1	0	0	0	0	0	1	1	1	1					
56	0	0	1	1	0	0	0	0	0	1	1	1	0	0	0	0	1	1	1	1	1	0	0	0	1	1	1	1					
60	0	0	1	1	1	0	0	0	0	1	1	1	1	0	0	0	1	1	1	0	0	1	0	0	0	0	0	1					
64	0	0	1	1	1	1	-1	0	0	1	1	0	0	0	0	0	1	0	0	0	0	0											

N HEMISPHERE

TEMPERATURE - (ZONAL MEAN TEMPERATURE) (K)

KM LAT*	LONGITUDE 60 W							LONGITUDE 30 W							LONGITUDE 0 DEG							LONGITUDE 30 E						
	20	30	40	50	60	70	80	20	30	40	50	60	70	80	20	30	40	50	60	70	80	20	30	40	50	60	70	80

JANUARY

18	0	-1	-3	-4	-6	-7	-3	0	-1	-3	-4	-6	-8	-5	1	0	-3	-5	-7	-8	-6	1	1	-3	-7	-10	-10	-7	
20	0	-2	-4	-5	-7	-8	-4	0	-1	-3	-5	-8	-10	-7	1	0	-3	-6	-9	-11	-8	1	1	-3	-8	-12	-12	-8	
24	0	-1	-4	-6	-8	-9	-5	1	0	-2	-5	-9	-11	-8	1	1	-1	-6	-11	-13	-9	1	2	-1	-7	-12	-13	-9	
28	1	0	-2	-5	-6	-7	-5	1	2	0	-3	-7	-9	-6	1	2	1	-3	-8	-10	-6	1	2	1	-3	-8	-8	-5	
32	1	1	0	-3	-4	-4	-4	1	3	3	0	-4	-5	-4	1	3	4	1	4	5	-3	1	2	4	2	-1	-2	-1	
36	1	2	2	0	0	-1	-2	1	3	5	3	0	-1	-1	1	3	6	4	1	0	0	0	2	5	6	4	3	2	
40	1	3	3	2	2	0	-2	1	3	6	5	3	2	0	0	2	6	6	4	3	2	0	1	5	8	8	7	4	
44	1	2	3	4	3	2	-1	0	2	5	5	5	4	1	0	1	4	6	6	6	4	0	0	4	7	8	8	6	
48	1	2	3	4	5	4	1	0	1	3	5	6	6	3	0	0	2	5	7	7	5	0	0	2	5	7	8	6	
52	0	2	2	4	6	5	3	0	1	2	5	6	6	4	0	0	1	4	5	6	5	0	-1	1	2	4	6	5	
56	0	1	1	5	8	7	5	0	0	0	4	6	6	5	0	-1	0	1	3	5	4	0	-1	0	0	1	4	2	
60	0	0	0	4	8	7	6	0	-1	-1	2	5	6	5	0	-1	-1	-1	1	4	3	0	-1	-1	-2	-1	1	1	
64	0	0	0	3	6	6	5	0	-1	-1	0	3	5	4	0	-1	-1	-2	0	2	2	0	-1	-1	-2	-2	-1	-1	
68	0	0	0	2	4	5	4	0	0	0	-1	1	3	3	0	0	0	-2	-2	0	1	0	0	0	-2	-3	-2	-2	
72	0	0	1	0	2	3	3	0	0	0	-1	0	2	2	0	0	0	-2	-2	-1	0	0	0	0	-2	-3	-3	-2	
76	0	0	1	0	1	2	2	0	1	1	-2	-1	0	0	0	1	1	-2	-3	-2	-1	0	1	0	-2	-4	-3	-2	
80	0	0	1	-1	0	1	1	0	1	2	-2	-2	-1	-1	1	2	1	-2	-3	-3	-2	0	1	1	-2	-3	-4	-2	

FEBRUARY

18	1	-1	-1	-1	-3	0	0	0	-1	-1	-3	-2	-3	-4	0	0	-2	-4	-2	-5	-6	0	1	-2	-5	-5	-8	-5	
20	2	-1	-2	-1	-4	-1	-1	1	-1	-4	-3	-3	-4	-6	-1	-1	-4	-5	-3	-7	-8	-1	0	-2	-6	-6	-10	-6	
24	0	0	-3	-4	-3	-3	-1	-1	1	-2	-5	-4	-6	-4	0	2	0	-5	-6	-8	-7	1	0	0	-5	-9	-10	-8	
28	1	0	-3	-5	-4	-3	-1	1	0	-3	-5	-5	-6	-2	1	1	-1	-4	-7	-7	-4	0	1	0	-3	-7	-7	-5	
32	0	0	-1	-3	-6	-3	0	1	-1	-2	-5	-6	-4	0	1	-1	-2	-5	-4	-5	-2	0	1	1	-1	-1	-3	-4	
36	1	0	-1	-3	-4	-2	-1	1	0	-1	-3	-5	-3	-2	1	0	1	-2	-4	-3	-2	0	1	3	3	2	1	0	
40	0	-1	0	-3	-3	-2	-2	1	1	0	-2	-3	-1	-1	1	3	1	2	-2	0	0	0	2	3	6	5	4	3	
44	0	0	0	-2	-1	-2	-1	0	1	2	0	1	0	1	0	1	2	3	3	2	2	0	1	3	5	5	6	3	
48	0	1	-1	-1	0	-1	0	0	1	1	1	1	2	1	1	1	2	2	3	4	3	1	1	3	4	6	7	3	
52	0	-1	0	0	2	2	1	0	0	0	1	5	5	2	1	1	0	2	7	7	4	1	1	1	3	6	7	4	
56	0	-1	-1	1	5	5	2	0	-1	-1	2	7	7	3	0	0	0	3	8	7	4	1	1	1	3	6	6	3	
60	0	-2	0	3	7	6	2	-1	-2	-1	4	9	8	4	0	-1	0	4	8	7	4	0	1	1	3	4	4	3	
64	-1	-1	0	4	7	7	3	-1	-1	0	4	8	8	4	0	-1	0	4	7	7	4	0	0	0	2	3	3	3	
68	0	0	1	4	7	7	3	0	-1	1	4	7	7	4	0	-1	1	3	5	5	4	0	0	0	1	1	1	2	
72	0	1	1	3	5	6	3	0	0	2	3	5	5	4	0	0	1	2	3	3	3	0	-1	0	0	0	0	2	
76	0	1	2	2	4	4	3	0	1	2	2	3	3	3	0	0	2	2	2	2	3	0	-1	0	-1	-1	-1	1	
80	0	2	2	2	3	3	3	0	2	2	2	2	2	3	0	1	2	1	0	0	2	0	-1	0	-1	-2	-2	1	

MARCH

18	0	0	0	1	2	2	0	0	0	-1	-2	-2	-3	-3	0	0	-2	-5	-8	-8	-6	0	0	-3	-8	-11	-11	-7	
20	0	0	-1	1	2	2	0	0	0	-1	-2	-3	-4	-4	1	0	-2	-6	-9	-10	-7	1	0	-3	-9	-13	-13	-8	
24	1	0	-1	0	1	1	0	1	1	-2	-4	-5	-5	-3	1	1	-2	-7	-11	-10	-6	1	1	-2	-8	-13	-12	-7	
28	1	0	-2	-3	-2	-1	-1	1	1	-1	-4	-6	-5	-2	1	2	0	-5	-8	-7	-3	1	2	1	-3	-6	-6	-3	
32	0	0	-2	-5	-5	-4	-1	1	1	-1	-4	-5	-4	-1	1	2	2	-1	-3	-2	1	1	2	4	3	2	2	2	
36	0	0	-2	-5	-7	-5	-2	1	1	0	-2	-3	-2	1	1	2	3	3	2	3	3	0	2	5	8	9	9	6	
40	1	0	-1	-4	-6	-5	-2	1	1	1	-1	-1	0	2	0	2	3	5	5	6	5	0	2	5	10	12	11	7	
44	1	1	0	-2	-3	-3	-1	1	1	1	1	1	1	2	0	1	3	5	6	6	4	0	1	4	8	10	10	6	
48	1	1	0	0	-1	-1	0	1	1	1	2	3	3	2	0	1	2	4	6	6	4	0	1	2	6	8	8	5	
52	0	0	1	2	3	2	1	1	1	1	4	5	5	3	0	1	1	4	6	6	4	0	1	1	4	6	7	4	
56	0	0	1	4	5	4	2	0	0	1	4	7	6	4	0	0	1	4	6	7	5	0	0	1	2	5	6	4	
60	0	0	1	4	6	5	3	0	-1	1	4	6	7	4	0	0	1	3	5	7	4	0	0	1	1	4	5	4	
64	0	0	2	4	5	5	3	-1	-1	1	3	5	6	3	0	-1	1	2	4	5	3	0	-1	0	0	2	3	2	
68	0	0	1	3	4	4	2	-1	-1	1	2	3	4	2	0	-1	1	1	3	3	2	0	-1	0	0	1	1	1	
72	0	0	1	2	2	2	1	0	0	1	1	2	3	1	0	-1	1	1	2	2	1	0	-1	0	0	0	0	0	
76	1	0	1	1	1	1	1	0	0	1	1	1	1	0	0	0	1	1	1	1	0	0	-1	0	0	0	0	0	
80	1	1	1	0	0	0	0	0	0	1	0	0	0	0	0	0	1	1	0	0	-1	0	0	1	0	0	0	-1	

APRIL

18	0	0	0	-1	-1	0	0	0	1	0	-1	-2	-1	0	0	1	0	-2	-3	-2	-1	0	1	0	-2	-2	-2	-1	
20	0	0	0	-2	-1	-1	0	0	1	0	-2	-2	-2	0	1	1	1	-2	-3	-2	-1	0	1	0	-2	-3	-2	-1	
24	0	1	0	-2	-2	-1	0	0	1	1	-1	-3	-2	-1	1	1	1	-1	-3	-3	-1	0	1	1	-1	-3	-2	-1	
28	0	1	1	-1	-1	-1	0	0	1	1	0	-2	-2	-1	0	1	2	0	-2	-2	-1	0	1	1	0	-1	-1	-1	
32	0	1	1	0	-1	-1	-1	0	1	2	1	0	-1	-1	0	1	2	2	0	-1	-1	0	0	1	2	1	0	0	
36	0	0	1	1	0	-1	-1	0	0	1	2	1	0	0	0	0	1	2	2	0	0	0	0	1	2	2	1	0	
40	0	0	1	1	0	0	0	0	0	1	2	2	1	0	0	0	1	2	2	1	0	0	0	0	2	3	1	1	
44	0	0	0	1	1	0	0	0	0	0	2	2	1	0	0	0	0	2	2	1	0	0	-1	0	1	2	1	1	
48	0	0	0	1	1	1	0	0	0	0	1	2	1	0	0	0	0	1	2	1	0	0	-1	0	0	1	1	0	
52	0	0	0	1	1	1	0	0	0	0	1	1	1	0	0	0	0	0	1	1	0	0	-1	-1	-1	0	0	0	
56	0	0	0	1	1	1	1	0	0	0	1	1	0	0	0	0	-1	0	0	0	-1	0	0	-1	-1	-1	0	-1	
60	0	0	0	0	1	0	1	0	0	0	0	0	0	0	0	0	-1	0	0	0	-1	0	0	-1	-1	-1	0	-1	
64	0	0	0	0	0	0	0	1	0	0	-1	0	0	0	0	0	-1	0	0	0	0	0	0	-1	-1				

N HEMISPHERE

TEMPERATURE - (ZONAL MEAN TEMPERATURE) (K)

KN LAT=	LONGITUDE 60 E								LONGITUDE 90 E								LONGITUDE 120 E								LONGITUDE 150 E								B08EG
	20	30	40	50	60	70	80	20	30	40	50	60	70	80	20	30	40	50	60	70	80	20	30	40	50	60	70	80					
JANUARY																																	
18	0	1	-2	-6	-10	-10	-6	0	0	0	-3	-6	-7	-4	-1	0	2	4	4	2	1	-1	0	5	9	12	12	6					
20	1	1	-2	-7	-12	-12	-7	0	0	0	-3	-6	-7	-4	-1	0	3	5	5	4	2	-1	0	5	11	15	14	7					
24	1	1	-1	-6	-10	-10	-6	0	0	1	-1	-2	-3	-1	-1	0	3	6	9	7	4	-1	0	5	12	18	17	9					
28	0	1	1	-2	-4	-3	-2	0	0	1	2	3	3	2	-1	0	3	7	10	9	6	-1	0	4	10	15	14	8					
32	0	1	2	3	3	4	2	0	0	2	5	8	8	5	0	0	2	6	10	10	6	-1	-1	1	6	9	8	5					
36	0	1	4	7	9	8	4	0	0	2	7	10	11	6	0	0	1	4	8	8	5	0	-1	-2	0	2	3	3					
40	0	1	4	9	11	10	6	0	1	2	7	11	11	6	0	0	0	2	5	6	4	0	-1	-4	-5	-4	-2	1					
44	0	0	3	7	10	10	6	0	1	2	5	8	8	4	0	0	0	0	2	2	1	0	-1	-4	-6	-7	-5	-2					
48	0	0	2	4	7	7	5	0	1	2	3	5	4	2	0	0	0	0	0	-1	-2	0	-1	-3	-5	-7	-8	-4					
52	0	0	1	2	3	4	3	0	1	1	1	2	1	0	0	0	0	0	-1	-4	-3	0	-1	-2	-4	-6	-8	-5					
56	0	0	0	0	0	1	1	0	0	0	0	0	-2	-2	0	0	-1	-1	-2	-6	-4	0	0	-1	-3	-6	-8	-5					
60	0	0	0	-1	-1	-1	-1	0	0	-1	-1	-2	-4	-2	0	0	-1	-3	-4	-6	-3	0	0	-1	-4	-7	-8	-4					
64	0	0	-1	-2	-3	-3	-2	0	0	-1	-2	-4	-5	-2	0	-1	-1	-3	-5	-6	-3	0	-1	-1	-3	-6	-6	-3					
68	0	0	-1	-2	-4	-4	-2	0	-1	-1	-2	-4	-5	-2	0	-1	-1	-3	-4	-5	-2	0	-1	-1	-2	-4	-4	-2					
72	0	0	-1	-2	-4	-4	-2	0	-1	-1	-2	-4	-4	-2	0	-1	-1	-2	-3	-3	-1	0	-1	-1	-1	-2	-2	-1					
76	0	0	0	-2	-4	-4	-2	0	-1	-1	-2	-4	-3	-1	-1	-1	-1	-2	-2	-2	-1	0	-1	-1	0	0	0	0					
80	0	0	0	-2	-4	-4	-2	0	-1	-1	-2	-3	-2	-1	-1	-1	-1	-1	-2	-2	-1	0	0	-1	-1	1	1	1					
FEBRUARY																																	
18	1	1	-2	-4	-8	-10	-4	1	0	0	-2	-9	-8	-3	0	-1	2	1	-4	-2	-2	-1	0	3	4	5	5	1					
20	0	1	0	-5	-10	-11	-4	2	1	2	-1	-10	-9	-3	1	0	2	3	-3	-2	-2	-1	-1	2	5	7	6	0					
24	2	-1	-1	-4	-9	-9	-6	0	-1	-1	-1	-5	-5	-3	-1	0	1	3	3	1	2	-2	1	4	7	9	7	5					
28	0	1	2	-1	-3	-3	-4	-1	0	2	2	3	2	0	0	0	2	5	7	5	4	0	0	2	7	10	7	6					
32	-1	2	4	4	4	2	-2	-1	2	5	8	7	7	3	0	0	3	8	9	9	6	0	-2	0	4	7	6	4					
36	-1	2	4	8	9	7	3	0	2	4	9	13	11	6	0	0	2	6	10	10	6	1	-1	-1	1	3	4	3					
40	-1	0	5	9	12	9	5	-1	-1	4	7	14	12	6	0	-1	1	3	8	9	4	1	0	-3	-3	-2	1	0					
44	0	1	3	7	8	9	3	0	0	2	5	8	9	3	0	0	0	1	5	5	2	-1	-1	-1	-2	0	-1	0					
48	1	1	2	4	7	8	3	0	1	1	4	6	6	2	-1	0	0	1	2	2	1	-1	-1	-1	-1	-4	-3	-1					
52	1	2	2	3	4	5	3	0	1	2	2	1	2	1	0	0	1	0	-2	-2	-1	-1	-1	-1	-2	-4	-5	-3					
56	1	2	2	2	2	2	1	1	1	1	0	-2	-1	-1	0	0	0	-2	-5	-4	-2	-1	0	-1	-3	-6	-6	-3					
60	0	1	1	0	-1	0	1	0	1	0	-3	-5	-4	-2	0	0	-1	-5	-8	-7	-3	0	0	-1	-5	-8	-7	-4					
64	0	0	0	-2	-3	-2	0	0	0	-2	-5	-7	-6	-2	0	-1	-2	-6	-8	-8	-4	0	0	-2	-5	-7	-7	-4					
68	0	-1	-1	-2	-4	-3	0	0	-1	-2	-5	-7	-6	-2	0	-1	-2	-6	-8	-7	-4	0	0	-1	-4	-6	-6	-4					
72	0	-1	-2	-3	-4	-3	0	-1	-1	-3	-5	-6	-5	-2	0	-1	-2	-5	-6	-6	-4	0	0	-1	-3	-4	-5	-4					
76	-1	-1	-2	-3	-4	-3	-1	-1	-2	-3	-4	-6	-5	-2	-1	-1	-2	-4	-5	-5	-3	0	-1	-1	-2	-3	-3	-3					
80	-1	-2	-2	-3	-4	-3	-1	-1	-2	-3	-4	-5	-4	-2	-1	-1	-2	-3	-4	-4	-3	0	-1	-1	-1	-2	-2	-3					
MARCH																																	
18	0	0	-3	-8	-11	-11	-6	0	-1	-1	-4	-6	-6	-3	-1	-1	1	2	1	1	1	-1	0	3	5	6	6	4					
20	0	0	-3	-8	-12	-12	-7	-1	-1	-1	-4	-6	-6	-3	-1	-1	2	2	2	1	1	-1	0	3	7	7	7	4					
24	0	1	-1	-6	-10	-9	-5	0	0	1	-1	-3	-3	-2	-1	-1	2	4	4	3	1	-1	-1	3	7	8	7	4					
28	0	1	2	0	-2	-2	-1	0	0	2	3	3	2	0	-1	0	2	5	6	4	1	-1	-1	2	6	7	5	2					
32	0	2	5	7	7	6	3	0	1	4	8	9	7	2	0	0	2	5	7	5	1	-1	-1	-1	2	4	2	0					
36	0	2	6	11	13	12	6	0	1	4	9	12	10	4	0	0	1	4	7	5	1	0	-1	-2	-2	0	-1	-2					
40	0	2	6	12	15	14	7	0	1	4	9	12	11	5	0	0	0	3	5	4	1	0	-1	-3	-4	-3	-3	-3					
44	0	1	4	9	11	11	6	0	0	2	6	9	8	4	0	0	0	2	3	3	1	0	-1	-2	-3	-3	-3	-2					
48	0	0	2	6	8	8	4	0	0	1	4	6	6	3	0	0	0	1	2	1	0	0	-1	-2	-3	-3	-3	-2					
52	0	0	1	3	5	6	3	0	0	1	2	3	3	1	0	0	0	0	0	-1	-2	0	0	-1	-3	-4	-5	-3					
56	0	0	1	1	3	4	3	0	0	0	0	1	0	0	0	0	-1	-2	-3	-4	-3	0	0	-2	-4	-6	-7	-5					
60	0	0	0	-1	1	2	2	0	0	-1	-2	-2	-2	-1	0	0	-1	-3	-5	-5	-4	0	0	-2	-4	-7	-7	-5					
64	0	0	-1	-2	-1	0	1	0	0	-1	-3	-3	-3	-1	0	0	-2	-4	-5	-6	-3	0	0	-2	-4	-6	-6	-4					
68	0	0	-1	-2	-1	-1	0	0	0	-2	-3	-4	-4	-1	0	0	-2	-3	-5	-5	-2	0	0	-2	-3	-4	-4	-3					
72	0	-1	-1	-2	-2	-2	0	0	-1	-2	-3	-3	-3	-1	-1	0	-2	-3	-4	-3	-1	-1	0	-1	-2	-2	-2	-1					
76	0	-1	-1	-1	-2	-2	0	-1	-1	-1	-2	-3	-2	-1	-1	-1	-2	-2	-3	-2	-1	-1	0	-1	-1	-1	-1	-1					
80	0	-1	0	-1	-1	-1	-1	-1	-1	-1	-2	-3	-2	0	-1	-1	-2	-2	-2	-2	-1	0	-1	-1	-1	-1	0	0					
APRIL																																	
18	0	0	0	-1	-1	-1	0	-1	-1	0	0	1	1	0	-1	-1	0	2	2	1	0	0	-1	0	3	3	1	0					
20	0	0	0	-1	-1	-1	-1	-1	-1	-1	0	1	1	0	-1	-1	0	2	3	2	1	-1	-1	0	3	3	2	0					
24	0	0	0	-1	-1	0	-1	-1	-1	-1	1	2	1	0	-1	-2	0	2	3	2	0	0	-1	0	3	3	2	1					
28	0	0	0	0	0	0	0	-1	-1	0	1	2	2	0	-1	-1	-1	1	3	2	1	0	-1	-1	1	2	2	1					
32	0	0	0	1	2	1	0	0	-1	0	1	2	2	1	0	-1	-1	0	1	2	1	0	-1	-1	-1	1	1	1					
36	0	0	1	2	2	1	1	0	0	0	1	1	1	1	0	0	0	0	0	1	1	0	0	-1	-2	-1	0	1					
40	0	0	0	2	2	1	1	0	0	0	1	1	1	1	0	0	0	-1	-1	-1	0	0	0	-1	-2	-2	-1	0					
44	0	0	0	1	1	1	1	0	0	0	0	0	0	0	0	0	0	-1	-1	-1	0	0	0	0	-2	-2	-1	0					
48	0	0	0	0	0	0	0	0	0	0	-1	-1	0	0	0	0	-1	-1	-1	0	0	1	0	-1	-1	-1	0	0					
52	0	-1	-1	-1	-1	0	0	0	0	-1	-2	-1	-1	0	0	0	-1	-1	-1	0	0	1	1	0	-1	-1	0	0					
56	0	-1	-1	-2	-2	-1	0	0	0	-1	-2	-2	-1	0	0	0	-1	-1	-1	0	0	0	1	0	0	0	0	0					
60	0	0	-1	-2	-1	-1	0	0	0	0	-1	-1	-1	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0					
64	0	0	0	-1	-1	0	0	0	0	0	-1	0	0	0	0	0	0	0	0	0	0	0											

S HEMISPHERE

(PRESSURE)/(ZONAL MEAN PRESSURE) - 1 (X)

LONGITUDE 180 DEG LONGITUDE 150 W LONGITUDE 120 W LONGITUDE 90 W
 KN LAT= -80 -70 -60 -50 -40 -30 -20 -80 -70 -60 -50 -40 -30 -20 -80 -70 -60 -50 -40 -30 -20 -80 -70 -60 -50 -40 -30 -20

APRIL

18	1	1	2	2	1	0	1	2	2	3	2	1	0	0	2	2	2	2	1	0	0	1	2	1	1	0	0	0
20	1	2	2	2	1	0	1	2	2	3	2	1	0	0	2	2	2	1	1	0	0	1	1	1	1	0	0	0
24	2	2	2	2	1	0	0	2	3	2	2	1	1	0	2	2	2	1	0	0	0	1	1	1	0	0	0	0
28	2	3	2	1	0	0	0	3	3	2	1	0	0	1	2	2	1	0	0	0	0	1	1	0	-1	0	0	0
32	2	2	1	0	0	0	0	2	2	1	0	0	0	1	2	1	0	-1	0	0	0	1	0	-1	-1	0	0	0
36	1	1	0	0	0	0	0	2	1	0	-1	-1	0	1	1	0	-1	-1	-1	0	1	0	-1	-2	-1	0	0	0
40	1	1	0	-1	-1	0	0	1	0	-1	-2	-1	0	1	1	-1	-2	-2	-1	0	1	0	-1	-2	-2	0	0	0
44	0	0	-1	-1	-1	0	1	1	-1	-2	-2	-1	0	1	0	-1	-2	-2	-1	0	1	0	-1	-2	-2	0	0	0
48	0	-1	-1	-2	-1	0	1	0	-1	-2	-2	-1	0	1	0	-2	-2	-2	-1	0	1	0	-1	-2	-1	0	0	0
52	0	-1	-2	-2	-1	0	1	0	-2	-3	-2	-1	0	1	0	-2	-3	-2	-1	0	1	0	-2	-2	-1	0	0	0
56	-1	-2	-3	-2	-1	0	1	-1	-2	-3	-3	-1	0	1	-1	-2	-3	-2	-1	0	1	-1	-2	-2	-1	0	0	1
60	-1	-2	-3	-3	-1	0	1	-1	-3	-3	-3	-1	0	1	-1	-3	-3	-2	0	0	1	0	-2	-2	-1	0	1	1
64	-2	-2	-4	-3	-1	0	1	-1	-3	-3	-2	-1	0	1	-1	-2	-3	-2	0	1	1	0	-1	-1	0	0	1	1
68	-2	-3	-4	-3	-1	0	1	-2	-3	-3	-2	0	1	1	-1	-2	-2	-1	0	1	1	0	-1	-1	0	1	1	1
72	-2	-3	-4	-3	-1	0	1	-2	-2	-3	-2	0	1	1	-1	-2	-2	-1	1	1	1	1	-1	0	0	1	1	1
76	-2	-3	-3	-3	-1	1	1	-1	-2	-3	-1	0	1	1	0	-1	-2	0	1	1	1	1	0	0	1	1	1	1
80	-2	-2	-3	-3	-1	1	2	-1	-2	-3	-1	1	1	1	0	-1	-2	0	1	1	1	2	0	0	1	1	1	1

MAY

18	1	1	1	1	0	0	0	1	2	1	1	0	1	0	1	2	2	1	0	0	0	1	1	1	0	0	0	0	
20	1	1	2	1	0	0	0	2	2	2	1	0	0	0	2	2	1	1	0	0	0	1	1	0	0	0	0	0	
24	2	3	3	1	0	0	0	2	3	2	1	0	0	0	2	2	1	0	0	0	0	1	0	-1	-1	0	0	0	
28	2	4	4	2	1	0	0	2	3	2	1	0	0	0	1	1	0	0	-1	0	0	0	0	-1	-2	-1	0	0	
32	2	4	4	2	0	0	0	2	2	2	0	0	0	0	1	0	-1	-1	-1	0	0	0	0	-2	-3	-3	-1	0	0
36	2	3	3	2	0	-1	-1	1	1	1	0	-1	-1	0	0	-1	-2	-2	-1	-1	0	-1	-3	-4	-3	-1	0	0	
40	1	2	2	1	-1	-1	-1	1	0	0	-1	-1	-1	-1	0	-1	-2	-3	-2	-1	0	-1	-3	-4	-3	-1	0	1	
44	1	2	1	0	-1	-1	-1	0	0	-1	-2	-2	-1	-1	-1	-2	-3	-3	-2	-1	0	-1	-3	-3	-2	-1	0	1	
48	1	1	1	0	-1	-2	-1	0	-1	-1	-2	-2	-2	-1	-1	-2	-3	-3	-2	-1	0	-2	-3	-3	-2	0	0	1	
52	1	1	0	-1	-2	-2	-1	-1	-1	-2	-2	-2	-2	-1	-1	-3	-3	-3	-2	-1	0	-2	-3	-3	-2	0	1	1	
56	0	0	0	-1	-2	-2	-1	-1	-2	-2	-3	-2	-2	-1	-2	-3	-4	-3	-1	-1	0	-2	-3	-3	-2	0	1	1	
60	0	0	-1	-2	-2	-2	-1	-1	-2	-3	-3	-2	-2	-1	-2	-3	-4	-3	-1	-1	0	-2	-3	-3	-1	0	1	1	
64	0	-1	-1	-2	-2	-1	-1	-1	-3	-3	-3	-2	-1	0	-2	-4	-4	-3	-1	0	0	-2	-3	-3	-1	1	1	1	
68	0	-1	-1	-2	-2	-1	-1	-1	-3	-3	-3	-2	-1	0	-2	-4	-4	-2	0	0	0	-2	-3	-3	-1	1	1	1	
72	0	-1	-1	-2	-2	-1	-1	-1	-3	-3	-2	-1	0	0	-2	-3	-3	-2	0	0	0	-2	-3	-2	0	1	1	1	
76	0	-1	-1	-1	-1	0	-1	-1	-2	-2	-2	-1	0	0	-2	-3	-3	-1	0	0	0	-2	-3	-2	0	1	1	1	
80	0	0	0	-1	-1	0	0	0	-2	-1	-1	-1	0	0	-1	-2	-2	-1	0	0	0	-1	-2	-2	0	2	1	1	

JUNE

18	1	2	2	2	1	1	1	2	3	3	2	1	1	0	2	3	3	1	1	0	0	2	2	2	0	0	0	0
20	1	2	3	2	1	1	0	2	3	3	2	1	1	0	3	3	3	1	1	0	0	2	2	1	0	0	0	0
24	2	3	3	2	1	1	0	3	4	3	2	1	1	0	3	3	3	1	0	0	0	2	2	1	0	0	0	0
28	2	3	3	2	1	0	0	3	4	3	2	1	0	0	2	3	2	1	0	0	0	1	1	0	0	-1	0	0
32	2	3	3	1	1	0	0	2	3	3	1	0	0	1	2	2	2	1	0	0	0	1	0	0	-1	-1	0	0
36	1	2	2	1	0	0	0	2	3	2	1	0	0	1	2	2	1	0	0	0	0	1	0	0	-1	-1	0	0
40	1	2	1	0	0	0	0	1	2	1	0	0	0	1	1	1	1	0	0	0	0	1	0	0	-1	-1	0	0
44	1	1	1	0	0	0	1	1	2	1	0	0	1	1	1	1	0	0	0	0	0	1	0	-1	-1	-1	0	0
48	1	1	0	-1	0	0	1	1	1	0	0	1	1	1	1	0	0	0	0	0	0	1	0	-1	0	-1	0	0
52	0	0	-1	-1	0	0	1	0	0	0	0	1	1	1	1	0	-1	0	1	1	1	1	0	0	0	0	0	0
56	0	0	-1	-2	0	1	1	0	0	-1	-1	1	1	1	0	0	-1	0	1	1	1	1	0	0	0	0	0	0
60	-1	-1	-2	-2	0	1	1	0	-1	-1	-1	1	2	2	1	-1	-1	0	1	1	1	1	0	0	0	0	-1	-1
64	-1	-2	-2	-2	0	2	2	-1	-1	-1	-1	2	3	2	1	-1	-1	0	2	2	1	1	0	0	1	1	-1	-1
68	-1	-2	-2	-2	1	3	3	-1	-1	-1	0	2	4	3	1	0	0	0	2	2	1	2	0	1	1	1	-1	-1
72	-1	-2	-2	-2	1	4	3	0	-1	-1	0	2	4	3	1	0	0	1	2	2	1	2	1	1	1	0	-1	-1
76	-1	-2	-2	-2	2	4	3	0	0	0	0	3	4	3	1	0	0	1	2	1	1	2	1	1	1	0	-2	-1
80	-1	-1	-1	-1	2	5	3	0	0	0	1	3	4	2	1	1	1	1	2	1	0	2	1	1	1	0	-2	-1

JULY

18	-1	1	2	2	0	0	0	0	2	3	2	1	1	0	1	3	3	2	1	0	0	2	3	3	1	1	0	0	0
20	0	2	3	3	1	0	0	1	3	3	2	1	1	0	2	3	3	2	1	0	0	2	3	3	0	0	0	0	0
24	1	3	3	3	1	1	0	2	3	3	2	0	1	0	2	3	3	1	0	0	0	1	2	2	0	0	0	0	0
28	1	3	2	2	1	0	0	2	2	1	1	0	0	0	2	2	1	0	-1	0	0	1	1	1	-1	-1	0	0	0
32	1	1	0	0	-1	0	0	1	1	-1	-2	-2	-1	0	1	0	-1	-2	-2	-1	0	0	-1	0	-2	-1	0	0	0
36	0	0	-2	-3	-3	-2	-1	0	-1	-3	-5	-4	-2	-1	0	-1	-2	-4	-3	-1	0	-1	-1	-1	-2	-1	0	0	0
40	0	-1	-4	-5	-5	-3	-1	-1	-2	-5	-6	-5	-2	-1	-1	-2	-3	-4	-3	-1	0	-1	-2	-1	-2	-1	0	0	1
44	-1	-2	-5	-6	-6	-3	-1	-1	-3	-6	-7	-6	-3	-1	-1	-3	-4	-5	-3	-1	0	-1	-2	-1	-2	0	0	1	1
48	-1	-2	-6	-7	-6	-4	-2	-1	-3	-7	-7	-6	-3	-1	-1	-3	-4	-5	-3	-1	0	-2	-3	-2	-2	0	1	1	1
52	-1	-3	-6	-7	-7	-4	-2	-1	-4	-7	-8	-6	-3	-1	-2	-4	-5	-5	-3	-1	0	-2	-3	-2	-2	0	1	1	1
56	-1	-3	-7	-8	-7	-4	-2	-2	-4	-8	-8	-6	-2	-1	-2	-4	-5	-5	-3	0	0	-2	-3	-1	-1	1	2	1	1
60	-2	-4	-7	-8	-7	-3	-1	-2	-5	-8	-9	-6	-2	-1	-3	-4	-5	-5	-2	0	1	-2	-3	0	0	2	2	1	1
64	-2	-4	-8	-9	-7	-3	-1	-3	-5	-9	-9	-6	-2	0	-3	-4	-5	-5	-1	1	1	-2	-2	0	1	3	2	1	1
68	-2	-5	-8	-9	-6	-2	-1	-3	-5	-9	-9	-5	-1	0	-3	-4	-5	-5	-1	1	1	-2	-2	1	2	3	2	1	1
72	-3	-5	-8																										

S HEMISPHERE

(PRESSURE)/(ZONAL MEAN PRESSURE) - 1 (X)

	LONGITUDE 60 W							LONGITUDE 30 W							LONGITUDE 0 DEG							LONGITUDE 30 E							
KM LAT=	-80	-70	-60	-50	-40	-30	-20	-80	-70	-60	-50	-40	-30	-20	-80	-70	-60	-50	-40	-30	-20	-80	-70	-60	-50	-40	-30	-20DEG	
APRIL																													
18	1	1	0	0	0	0	0	0	0	-1	-1	-1	-1	0	-1	-1	-1	-1	-1	0	0	-1	-2	-2	-1	0	0	0	
20	1	1	0	0	0	0	0	0	0	-1	-1	-1	-1	0	-1	-1	-1	-1	-1	0	0	-1	-2	-2	-1	0	0	0	
24	0	0	-1	-1	0	0	0	-1	-1	-1	-1	-1	-1	0	-1	-2	-2	-1	0	0	0	-2	-2	-2	-1	0	0	0	
28	0	-1	-1	-1	0	0	0	-1	-1	-1	-1	0	0	0	-2	-2	-1	0	0	0	0	-2	-2	-1	0	0	0	0	
32	0	-1	-1	-1	0	0	0	-1	-1	-1	0	0	0	0	-2	-1	-1	0	0	0	0	-2	-1	0	1	0	0	0	
36	0	-1	-1	-1	0	0	0	-1	-1	-1	0	0	0	0	-1	0	0	1	1	0	0	-1	0	1	2	1	0	0	
40	0	-1	-1	0	0	0	0	-1	0	0	1	1	0	0	-1	0	1	2	1	0	0	-1	1	2	2	1	0	-1	
44	0	-1	-1	0	0	0	0	0	0	1	2	1	0	0	0	1	2	3	2	0	-1	0	1	2	2	1	0	-1	
48	0	-1	-1	0	0	0	0	0	1	1	2	1	0	0	0	1	2	3	2	0	-1	0	1	2	2	1	0	-1	
52	0	0	0	0	0	0	0	0	1	2	2	1	0	0	0	2	3	3	2	0	-1	0	2	3	3	1	0	-1	
56	0	0	0	1	1	0	0	0	1	2	2	1	0	0	0	3	4	3	2	0	-1	1	3	4	3	2	0	-1	
60	0	0	1	1	1	1	0	0	2	3	3	1	0	0	1	3	4	4	2	0	-1	1	3	4	3	2	0	-1	
64	0	1	1	1	1	1	1	1	3	4	3	2	0	0	1	4	5	4	2	0	-1	1	3	4	4	2	0	-1	
68	1	1	2	2	1	1	1	1	3	4	4	2	0	0	1	4	5	5	2	0	-1	1	4	5	4	1	0	-1	
72	1	1	2	2	1	1	1	1	4	5	4	2	0	0	1	5	6	5	2	0	-1	1	4	5	4	1	0	-1	
76	2	2	2	2	1	0	0	1	4	5	4	2	0	0	1	5	6	5	2	0	-1	1	4	4	3	1	0	-1	
80	2	2	2	2	1	0	0	2	4	5	4	2	0	0	1	5	6	5	2	0	-1	1	3	4	3	1	0	-1	
MAY																													
18	0	0	0	0	0	-1	-1	-1	-2	-2	-1	0	-1	0	-2	-2	-2	-1	0	0	0	-1	-2	-2	-1	0	0	0	
20	-1	-1	-1	-1	0	-1	0	-2	-2	-2	-1	0	-1	0	-2	-3	-2	-1	0	0	0	-2	-2	-2	-1	0	0	0	
24	-1	-2	-2	-2	-1	0	0	-2	-4	-3	-2	-1	0	0	-3	-4	-3	-1	0	0	0	-2	-3	-2	-1	0	0	0	
28	-1	-3	-4	-2	-1	0	0	-3	-4	-4	-2	-1	0	0	-3	-4	-4	-1	0	0	0	-2	-3	-2	0	0	0	0	
32	-2	-4	-5	-3	-1	0	0	-3	-4	-5	-2	0	0	0	-3	-4	-3	-1	0	0	0	-2	-2	-1	0	1	0	0	
36	-2	-3	-4	-3	0	1	1	-2	-3	-4	-2	0	1	1	-2	-3	-3	-1	1	1	0	-1	-1	-1	0	1	0	0	
40	-2	-3	-4	-2	0	1	1	-2	-3	-3	-1	1	1	1	-2	-2	-1	0	1	1	1	-1	0	0	1	1	0	0	
44	-2	-3	-3	-1	1	1	1	-2	-2	-2	0	1	1	1	-2	-1	-1	0	1	1	1	-1	0	1	1	1	0	0	
48	-2	-3	-3	-1	1	1	1	-2	-2	-1	0	1	1	1	-1	-1	0	1	1	1	1	0	1	1	1	1	0	0	
52	-2	-3	-2	-1	1	2	1	-2	-1	-1	1	2	2	1	-1	0	1	1	1	1	1	0	1	2	1	1	0	0	
56	-2	-3	-2	0	1	2	1	-2	-1	0	1	2	2	1	-1	0	1	2	1	1	1	0	2	2	2	1	0	0	
60	-2	-2	-1	1	2	2	1	-2	-1	1	2	2	1	1	-1	1	2	2	1	1	0	1	2	3	2	1	0	0	
64	-2	-2	-1	1	2	1	1	-2	0	1	3	2	1	1	-1	1	3	3	1	0	0	1	2	3	2	0	0	0	
68	-2	-2	0	1	2	1	1	-2	0	2	3	2	1	0	-1	1	3	3	1	0	0	1	3	3	2	0	-1	0	
72	-2	-2	0	2	2	1	1	-2	0	2	3	2	0	0	-1	1	3	3	1	-1	-1	1	2	2	1	0	-1	0	
76	-2	-1	0	2	2	1	1	-1	0	2	3	1	0	0	-1	1	3	2	0	-1	-1	1	2	2	1	-1	-1	-1	
80	-2	-1	0	2	2	1	0	-1	0	2	3	1	0	0	-1	1	2	2	0	-1	-1	0	1	2	0	-1	-1	-1	
JUNE																													
18	1	1	0	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-2	-2	-2	-1	-1	-1	0	-2	-3	-3	-1	0	0	0	
20	1	0	0	-1	-1	-1	-1	-1	-2	-1	-1	-1	-1	-1	-2	-3	-2	-1	-1	-1	0	-3	-3	-3	-1	0	0	0	
24	0	0	-1	-1	-1	-1	0	-1	-2	-2	-2	-1	-1	0	-3	-3	-3	-2	-1	0	0	-3	-3	-3	-1	0	0	0	
28	0	-1	-1	-1	-1	-1	0	-1	-3	-3	-2	-1	0	0	-2	-3	-3	-2	-1	0	0	-3	-3	-3	-1	0	0	0	
32	0	-1	-2	-2	-1	0	0	-1	-2	-2	-2	-1	0	0	-2	-3	-2	-1	0	0	0	-2	-2	-2	0	0	0	0	
36	0	-1	-1	-1	-1	0	0	-1	-2	-2	-1	0	0	0	-2	-2	-1	0	1	1	0	-2	-2	-1	1	1	1	0	
40	0	-1	-1	-1	-1	0	0	-1	-2	-1	0	0	0	0	-2	-1	0	1	2	1	0	-2	-1	0	1	2	1	0	
44	0	-1	-1	0	-1	-1	0	-1	-1	0	0	1	0	0	-1	-1	0	2	2	1	0	-1	0	1	2	2	1	0	
48	0	-1	0	0	-1	-1	0	-1	-1	0	1	1	0	0	-1	0	1	2	2	1	0	-1	0	1	2	2	1	0	
52	0	-1	0	0	0	-1	-1	0	0	1	1	1	0	0	-1	0	2	2	2	1	0	-1	1	2	2	2	1	0	
56	1	0	1	1	0	-1	-1	0	0	2	2	1	0	-1	-1	1	3	3	2	1	0	-1	1	2	3	2	1	0	
60	1	0	1	1	0	-1	-1	0	1	2	2	0	-1	-1	0	2	3	3	1	0	0	-1	2	3	3	2	1	0	
64	1	1	1	1	0	-2	-2	1	1	3	3	0	-2	-2	0	2	4	3	1	-1	-1	-1	2	3	3	1	0	0	
68	2	1	2	2	0	-2	-2	1	2	3	3	0	-2	-2	0	2	4	3	1	-1	-1	-1	2	3	3	1	0	-1	
72	2	1	2	2	0	-3	-3	1	2	3	3	0	-3	-3	0	2	4	4	1	-1	-2	-1	2	3	3	1	-1	-1	
76	2	1	2	2	0	-3	-3	1	2	3	3	0	-3	-2	0	2	4	4	1	-1	-2	-1	2	2	3	1	-1	-1	
80	2	1	2	2	-1	-3	-2	1	2	3	3	0	-2	-2	0	2	4	4	2	-1	-2	-1	1	2	3	1	-1	-1	
JULY																													
18	1	2	2	0	0	-1	0	0	0	0	-1	-1	-1	-1	-1	-2	-3	-2	-1	0	-1	-1	-3	-4	-2	-1	0	0	
20	1	1	2	-1	0	-1	0	0	-1	-1	-2	-1	-1	-1	-1	-3	-4	-3	-1	0	-1	-1	-4	-5	-3	-1	0	0	
24	0	0	1	-2	-1	-1	0	-1	-2	-2	-3	-1	-1	0	-2	-4	-5	-4	-2	0	0	-2	-4	-6	-3	-1	0	0	
28	0	-1	0	-2	-1	0	0	-1	-2	-3	-4	-2	0	0	-1	-3	-5	-4	-2	0	0	-1	-3	-5	-3	-1	0	0	
32	-1	-1	-1	-2	-1	0	0	-1	-2	-3	-3	-1	0	0	0	-2	-4	-3	-1	0	0	0	-1	-2	-1	0	0	0	
36	-1	-2	-1	-2	0	0	1	-1	-2	-2	-2	0	1	0	0	-1	-2	-1	0	1	0	1	1	0	1	1	1	0	
40	-1	-2	0	-1	1	1	1	-1	-1	-1	0	1	1	1	0	0	-1	0	1	1	1	0	1	2	1	3	3	2	0
44	-1	-2	0	0	2	1	1	0	-1	0	1	2	2	1	1	1	1	1	2	2	1	1	2	3	4	3	2	1	
48	-1	-2	0	0	2	2	1	-1	0	1	1	2	2	1	1	1	1	1	3	3	2	1	2	3	4	5	4	2	1
52	-1	-1	1	1	3	2	1	0	0	1	2	3	2	1	1	2	3	3	3	2	1	2	3	4	5	4	2	1	
56	-2	-1	2	2	3	2	1	0	0	2	3	4	2	1	1	2	3	4	4	2	0	2	4	4	5	4	2	1	
60	-1	-1	2	3	4	3	1	0	1	3	4	4	2	1	2	3	3	4	3	2	0	3	4	4	5	3	1	0	
64	-1	-1	3	4	5	3</																							

S HEMISPHERE

(PRESSURE)/(ZONAL MEAN PRESSURE) - 1 (2)

KN LAT- -80 -70 -60 -50 -40 -30 -20 LONGITUDE 60 E LONGITUDE 90 E LONGITUDE 120 E LONGITUDE 150 E

APRIL

KN LAT- -80 -70 -60 -50 -40 -30 -20	LONGITUDE 60 E	LONGITUDE 90 E	LONGITUDE 120 E	LONGITUDE 150 E
18	-2 -2 -2 -1 0 0 0	-1 -2 -2 -1 0 0 0	-1 -1 -1 0 0 0 0	0 0 1 1 0 0 0
20	-2 -2 -2 -1 0 0 0	-2 -2 -2 -1 0 0 0	-1 -1 -1 0 0 0 0	0 0 1 1 0 0 0
24	-2 -2 -2 -1 0 0 0	-2 -2 -2 -1 0 0 0	-1 -1 -1 0 0 0 0	1 1 1 1 0 0 0
28	-2 -2 -2 -1 0 0 0	-1 -1 0 0 0 0 0	0 0 1 0 0 0 0	1 1 1 0 0 0 0
32	-2 -1 0 1 0 0 0	-1 0 1 1 0 0 0	0 0 1 0 0 0 0	1 1 1 0 0 0 0
36	-1 0 1 1 1 0 0	0 0 1 1 0 0 0	0 0 0 0 0 0 0	0 0 0 -1 -1 0 0
40	-1 0 1 1 1 0 0	0 0 1 0 0 0 0	0 0 0 0 -1 0 0	0 0 0 -1 -1 0 0
44	0 1 2 1 1 0 -1	0 0 1 0 0 0 0	0 0 0 0 -1 0 0	0 0 -1 -1 -1 0 0
48	0 1 2 2 1 0 -1	0 0 1 0 0 0 0	0 0 0 -1 -1 0 0	0 0 -1 -1 -1 0 0
52	1 1 2 2 1 0 -1	0 1 1 0 0 0 -1	0 0 -1 -1 -1 0 0	0 -1 -2 -2 -1 0 0
56	1 2 3 2 1 0 -1	1 1 0 0 -1 -1 -1	0 -1 -1 -2 -1 -1 0	-1 -1 -3 -3 -2 0 0
60	1 2 3 2 1 0 -1	1 1 0 0 -1 -1 -1	0 -1 -2 -2 -1 -1 0	-1 -2 -3 -3 -2 0 0
64	1 2 2 2 0 -1 -1	1 0 0 -1 -1 -1 -1	0 -2 -3 -3 -2 -1 0	-1 -3 -4 -4 -2 0 1
68	1 2 2 1 0 -1 -1	1 0 -1 -1 -1 -1 -1	-1 -3 -4 -4 -3 -1 0	-2 -3 -4 -4 -2 0 1
72	1 1 2 1 0 -1 -2	1 -1 -1 -2 -2 -1 -1	-1 -3 -4 -4 -3 -1 0	-2 -3 -4 -4 -2 0 1
76	1 1 1 1 0 -1 -2	0 -2 -2 -2 -2 -2 -1	-2 -4 -4 -4 -3 -1 0	-2 -3 -4 -4 -2 0 1
80	0 1 1 0 -1 -1 -2	0 -2 -2 -3 -2 -2 -1		

MAY

KN LAT- -80 -70 -60 -50 -40 -30 -20	LONGITUDE 60 E	LONGITUDE 90 E	LONGITUDE 120 E	LONGITUDE 150 E
18	0 -1 -1 0 0 0 0	0 0 0 0 0 0 0	0 0 1 0 0 0 0	0 0 1 0 0 0 0
20	-1 -1 -1 0 0 0 0	0 0 0 0 0 0 0	0 1 2 2 1 0 0 0	2 2 3 1 0 0 0
24	-1 -1 0 0 0 0 0	0 1 1 1 0 0 0	2 3 4 2 1 0 0 0	2 4 4 2 1 0 0 0
28	-1 0 0 1 0 0 0	0 2 2 1 0 0 0	2 4 4 3 1 0 0 0	2 4 5 3 1 0 0 0
32	-1 0 1 1 1 0 0	1 2 3 2 1 0 0 0	2 4 4 3 1 0 -1	2 4 5 3 1 0 -1
36	0 1 1 1 1 0 0	1 2 3 2 1 0 0 0	2 3 4 3 1 0 -1	2 3 4 2 0 0 -1
40	1 1 1 1 1 0 0	2 2 3 2 1 0 0 0	2 3 3 2 1 0 -1	2 3 3 2 0 0 -1
44	1 1 2 1 1 0 0	2 3 3 2 1 0 0 0	2 3 3 2 1 0 -1	2 2 2 1 0 -1 -1
48	1 2 2 1 1 0 0	2 3 3 2 1 0 0 0	3 3 3 2 0 0 -1	2 2 1 0 -1 -1 -1
52	1 2 2 2 1 0 0	3 3 3 1 1 0 0 0	3 3 2 1 0 0 0	2 1 1 0 -1 -1 -1
56	2 3 2 1 1 0 0	3 3 3 1 0 0 0 0	3 3 2 1 0 0 0	2 1 0 -1 -1 -1 -1
60	2 3 2 1 0 0 0	3 3 2 0 0 0 0 0	3 3 1 0 0 0 0	2 1 0 -1 -1 -1 -1
64	2 3 2 1 0 0 0	3 3 1 0 0 0 0 0	3 2 1 0 0 0 0	1 1 0 -1 -1 -1 0
68	2 3 2 0 0 0 0	3 3 1 -1 0 0 0 0	3 2 0 -1 0 0 0	1 1 0 -1 -1 0 0
72	2 3 1 0 0 0 0	2 2 0 -1 0 0 0 0	2 2 0 -1 0 0 0	1 1 0 -1 0 0 0
76	2 2 1 0 -1 -1 0	2 2 0 -1 0 0 0 1	2 1 0 -1 0 0 1	1 1 0 0 -1 0 0
80	1 2 0 -1 -1 -1 0	2 2 0 -1 0 0 0		

JUNE

KN LAT- -80 -70 -60 -50 -40 -30 -20	LONGITUDE 60 E	LONGITUDE 90 E	LONGITUDE 120 E	LONGITUDE 150 E
18	-2 -2 -3 -1 0 0 0	-1 -1 -2 -1 0 0 0	0 -1 -1 0 0 0 0	0 1 1 1 0 0 0
20	-2 -2 -3 -1 0 0 0	-1 -1 -2 -1 0 0 0	0 0 0 0 0 0 0	1 1 2 1 1 0 0
24	-2 -2 -2 -1 0 0 0	-1 -1 -1 0 0 0 0	0 0 0 1 1 0 0 0	1 2 2 1 1 0 0
28	-2 -2 -2 0 0 0 0	-1 -1 0 1 0 0 0	0 0 1 1 0 0 0	1 2 2 1 0 0 0
32	-2 -1 -1 0 1 0 0	-1 0 0 0 0 0 -1	0 0 0 0 0 -1 -1	1 1 1 0 0 0 0
36	-1 -1 -1 1 1 0 0	0 0 -1 0 -1 -1 -1	0 0 0 -1 -1 -1 -1	1 1 1 -1 -1 -1 0
40	-1 -1 0 1 1 0 0	0 0 -1 -1 -1 -1 -1	0 0 -1 -1 -2 -1 -1	1 1 0 -1 -1 -1 0
44	-1 0 0 1 1 0 0	0 0 -1 -1 -1 -1 -1	0 0 -1 -2 -2 -1 -1	0 0 -1 -2 -2 -1 0
48	-1 0 0 1 1 0 0	0 0 -1 -1 -1 -1 -1	0 0 -1 -2 -2 -2 -1	0 0 -1 -2 -3 -2 -1
52	-1 0 1 1 1 0 0	0 0 -1 -1 -1 -1 -1	0 -1 -2 -3 -3 -1 -1	0 -1 -2 -3 -2 0 1
56	0 1 1 1 1 0 0	0 0 -1 -2 -2 -1 0	0 -1 -2 -3 -3 -1 0	-1 -2 -3 -3 -2 0 1
60	0 1 1 1 0 0 0	0 0 -2 -2 -2 -1 0	0 -1 -3 -4 -3 -1 0	-1 -2 -3 -3 -1 1 2
64	0 1 1 1 0 0 0	0 -1 -2 -2 -2 -1 0	-1 -2 -3 -4 -3 -1 1	-1 -2 -3 -4 -1 2 3
68	0 1 0 0 -1 -1 0	-1 -1 -2 -3 -3 -1 0	-1 -2 -4 -4 -3 0 1	-1 -3 -3 -4 -1 2 3
72	-1 1 0 0 -1 -1 -1	-1 -1 -3 -3 -3 -1 0	-1 -3 -4 -4 -3 0 1	-1 -3 -3 -4 -1 2 3
76	-1 0 0 0 -1 -1 -1	-1 -2 -3 -3 -3 -1 0	-1 -3 -4 -5 -3 0 1	-1 -2 -3 -4 -1 3 3
80	-1 0 -1 0 -1 -1 -1			

JULY

KN LAT- -80 -70 -60 -50 -40 -30 -20	LONGITUDE 60 E	LONGITUDE 90 E	LONGITUDE 120 E	LONGITUDE 150 E
18	0 -3 -4 -2 0 0 0	0 -1 -2 -1 0 0 0	-1 0 0 0 0 0 0	-1 0 1 2 0 0 0
20	-1 -3 -4 -2 0 0 0	-1 -2 -2 -1 0 0 0	-1 0 1 1 0 0 0	-1 1 2 2 1 0 0
24	-2 -3 -4 -1 0 0 0	-1 -1 0 1 1 0 0	-1 1 3 3 2 0 0	0 2 4 4 2 1 0
28	-1 -2 -2 0 0 0 0	-1 0 2 3 2 0 0	0 1 5 3 1 0 0	0 2 4 4 2 1 0
32	0 0 1 2 2 0 0	0 1 4 5 3 1 0	0 2 5 4 3 1 0	0 1 1 1 0 -1 -1
36	1 2 3 4 3 1 0	1 2 5 7 4 1 0	0 2 5 5 3 0 0	0 0 0 -1 -2 -2 -1
40	2 3 4 6 4 2 1	1 3 6 7 4 1 0	0 2 4 4 2 0 0	0 0 -1 -2 -3 -2 -1
44	2 4 5 6 4 2 1	1 3 6 7 4 1 0	1 2 3 3 1 -1 -1	0 -1 -2 -3 -4 -3 -1
48	2 4 6 7 5 2 1	2 4 6 6 3 1 0	1 2 3 2 0 -1 -1	0 -1 -2 -4 -4 -3 -2
52	2 4 6 7 4 1 1	2 4 6 6 3 1 0	1 2 3 2 -1 -2 -1	0 -1 -3 -4 -5 -3 -1
56	3 5 6 7 4 1 1	2 4 6 6 2 0 0	1 2 2 2 -1 -2 -1	-1 -2 -3 -4 -4 -3 -1
60	3 5 6 6 3 1 0	3 4 6 6 2 0 0	1 2 3 2 0 -1 0	-1 -2 -3 -4 -4 -2 -1
64	3 5 6 5 2 0 0	3 4 6 6 2 0 0	1 2 3 3 0 -1 0	-1 -2 -3 -4 -3 -2 -1
68	4 5 5 1 0 0 0	3 4 6 6 2 0 0	1 2 3 3 0 -1 0	-1 -2 -3 -4 -3 -2 -1
72	4 5 5 1 0 0 0	3 4 6 6 2 0 0	1 2 4 4 1 -1 0	-1 -2 -3 -4 -3 -2 0
76	4 5 5 1 0 0 0	2 4 7 7 3 0 0		
80	3 5 5 2 0 0 0			

S HEMISPHERE

(PRESSURE)/(ZONAL MEAN PRESSURE) - 1 (Z)

LONGITUDE 180 DEG LONGITUDE 150 LONGITUDE 120 W LONGITUDE 90 W ZONE

KN LAT= -80 -70 -60 -50 -40 -30 -20 -80 -70 -60 -50 -40 -30 -20 -80 -70 -60 -50 -40 -30 -20 -80 -70 -60 -50 -40 -30 -20

AUGUST

18	0	-1	-1	-1	0	0	0	2	2	3	2	1	1	0	3	5	6	4	2	1	0	3	5	5	3	1	1	0
20	1	1	1	0	0	0	0	3	4	3	2	1	1	0	3	5	5	3	2	1	0	3	4	4	2	1	0	0
24	4	5	3	2	1	0	0	4	5	4	2	1	0	0	3	4	3	1	0	0	0	1	1	1	0	0	0	0
28	4	5	4	3	1	1	0	3	4	3	1	0	0	0	2	2	0	-2	-1	0	0	0	-1	-2	-3	-2	-1	0
32	3	4	3	2	1	0	0	2	2	0	-1	-1	-1	0	1	0	-2	-4	-3	-1	0	-1	-2	-3	-4	-2	-1	0
36	3	3	1	0	0	0	0	2	1	-2	-3	-2	-1	0	0	-1	-3	-5	-3	-1	0	-1	-3	-3	-3	-2	0	0
40	3	2	-1	-2	-1	-1	-1	1	0	-3	-4	-3	-2	0	0	-2	-4	-5	-3	-1	0	-2	-3	-3	-2	-1	0	1
44	2	1	-2	-3	-2	-2	-1	1	-1	-4	-5	-4	-2	0	-1	-3	-4	-4	-3	-1	0	-2	-3	-2	-1	0	1	1
48	2	0	-3	-4	-3	-2	-1	0	-2	-5	-5	-4	-2	0	-1	-3	-4	-4	-2	-1	0	-2	-3	-2	-1	0	1	1
52	1	0	-4	-4	-3	-2	-1	0	-2	-5	-5	-4	-2	0	-1	-3	-3	-3	-2	0	1	-2	-2	-1	1	1	2	1
56	1	-1	-5	-5	-3	-2	-1	0	-2	-5	-5	-3	-1	0	-1	-2	-3	-2	-1	0	1	-1	-1	1	2	2	2	1
60	1	-1	-5	-5	-3	-1	0	0	-2	-5	-4	-3	-1	0	0	-2	-2	-1	0	1	1	0	0	2	4	3	2	1
64	1	-1	-5	-5	-2	-1	0	1	-2	-4	-4	-2	-1	0	1	0	0	1	1	1	1	1	2	4	5	4	3	1
68	2	-1	-5	-5	-2	-1	0	2	-1	-3	-3	-2	-1	0	2	1	1	2	1	1	1	2	3	6	7	5	3	1
72	2	-1	-5	-5	-3	-1	1	3	0	-2	-3	-2	0	1	3	3	3	3	2	2	1	3	5	7	8	6	3	1
76	3	0	-4	-5	-3	-1	1	4	2	-1	-2	-1	0	1	4	4	4	4	3	2	1	3	6	8	9	6	3	1
80	4	0	-4	-5	-3	-1	1	5	3	-1	-2	-1	0	1	5	6	5	4	4	3	1	4	7	8	9	7	4	1

SEPTEMBER

18	0	5	7	5	3	1	1	1	5	7	5	3	1	1	2	4	5	3	2	1	0	3	3	3	2	1	0	0
20	1	5	7	5	3	1	1	1	2	5	6	4	2	1	1	2	4	3	2	1	1	0	2	2	1	1	0	0
24	2	5	7	4	2	1	1	1	1	4	4	3	1	1	1	-1	0	0	0	0	0	-2	-2	-2	-2	-1	-1	0
28	1	4	5	3	2	1	1	1	-1	1	1	1	0	0	1	-3	-2	-3	-2	-1	0	0	-3	-5	-4	-2	-1	0
32	0	2	3	2	1	0	1	1	-2	-1	-1	-1	-1	0	1	-4	-4	-5	-4	-2	0	1	-4	-6	-6	-5	-2	0
36	-1	1	2	1	0	0	1	1	-3	-3	-2	-2	-1	0	1	-5	-6	-5	-4	-2	0	1	-5	-7	-6	-5	-2	0
40	-2	0	1	0	-1	0	1	1	-4	-4	-3	-3	-1	0	1	-6	-7	-6	-4	-2	1	1	-6	-7	-6	-4	-1	1
44	-2	-1	0	-1	-1	0	1	1	-5	-5	-3	-3	-1	0	1	-6	-7	-5	-4	-1	1	1	-6	-7	-5	-3	-1	1
48	-2	-2	-1	-1	-1	0	1	1	-5	-5	-4	-2	-1	1	1	-6	-7	-5	-3	-1	1	1	-6	-6	-4	-2	0	1
52	-3	-3	-2	-1	-1	0	1	1	-5	-5	-4	-3	-1	1	1	-6	-7	-5	-3	-1	1	1	-5	-6	-3	-2	0	1
56	-4	-4	-3	-2	-2	0	1	1	-6	-6	-4	-3	-1	1	1	-6	-7	-4	-2	0	1	1	-5	-5	-2	-1	1	2
60	-4	-5	-4	-3	-2	0	1	1	-6	-7	-5	-3	-1	1	1	-6	-6	-4	-2	0	2	2	-4	-4	-1	0	1	2
64	-5	-6	-4	-3	-2	0	1	1	-6	-7	-5	-3	-1	1	1	-5	-6	-3	-1	0	2	2	-3	-2	0	1	2	2
68	-5	-6	-5	-4	-2	0	1	1	-5	-7	-5	-3	-1	1	2	-4	-5	-3	-1	1	2	2	-2	-1	1	2	2	2
72	-5	-6	-5	-4	-2	0	1	1	-5	-6	-4	-3	-1	2	2	-3	-4	-2	-1	1	2	2	-1	0	2	3	2	2
76	-5	-6	-4	-3	-2	0	1	1	-4	-6	-4	-3	-1	2	2	-2	-3	-2	0	1	2	2	0	0	2	3	3	2
80	-5	-6	-4	-3	-2	1	1	1	-4	-5	-4	-2	-1	2	2	-2	-3	-1	0	1	3	2	1	1	3	3	3	2

OCTOBER

18	3	5	6	3	2	1	0	0	4	7	7	4	2	1	0	4	6	6	4	2	1	0	3	3	2	1	1	0	0
20	4	6	6	4	2	1	0	0	4	7	7	4	2	1	0	4	6	5	3	2	0	0	2	3	1	1	0	0	0
24	5	7	7	4	2	1	0	0	4	7	7	4	2	1	0	3	5	4	2	1	0	0	1	0	-1	0	0	0	0
28	5	8	8	5	2	1	0	0	4	7	7	4	1	0	0	2	3	3	1	0	0	0	-1	-1	-2	-2	-1	0	0
32	4	7	8	4	2	1	0	0	3	6	6	3	1	0	0	1	2	2	0	0	0	0	-1	-2	-3	-3	-1	0	0
36	4	7	7	4	1	0	0	0	3	5	5	2	0	0	0	1	2	1	0	-1	0	0	-1	-2	-3	-3	-2	0	0
40	3	6	6	3	1	0	0	0	2	5	5	2	0	0	1	1	2	1	0	-1	0	1	-1	-2	-3	-3	-2	0	0
44	3	5	4	2	0	0	0	0	2	4	4	1	0	0	1	0	2	1	0	-1	0	1	-1	-2	-3	-2	-1	0	1
48	2	4	3	1	0	0	0	0	2	4	4	1	0	0	1	0	2	1	0	-1	0	1	-1	-2	-2	-2	-1	0	1
52	2	3	2	0	-1	0	0	0	1	4	3	0	-1	0	1	0	2	1	0	-1	0	1	-1	-1	-2	-2	-1	0	1
56	2	2	1	-1	-1	0	0	0	1	3	2	0	0	0	1	0	2	1	0	0	0	1	-1	-1	-1	-1	0	0	1
60	1	1	1	-1	-1	0	1	1	1	2	2	0	0	0	1	0	2	1	0	0	1	1	-1	-1	-1	-1	0	0	1
64	1	1	0	-1	0	1	1	1	0	2	2	0	0	1	1	0	2	2	1	0	1	1	-1	0	0	0	0	0	1
68	1	1	0	-1	0	1	1	1	1	3	3	1	0	1	1	0	2	2	1	1	1	1	0	0	0	0	0	0	0
72	1	1	1	0	0	1	1	1	1	3	3	1	1	1	1	1	2	3	1	1	1	1	0	0	0	0	0	0	0
76	1	2	1	0	0	1	1	1	2	3	4	2	1	2	1	1	3	4	2	1	1	1	0	0	1	1	0	0	0
80	2	2	1	0	0	1	1	1	2	4	4	2	1	2	1	1	3	4	2	1	1	0	0	1	1	1	0	0	-1

NOVEMBER

18	1	1	2	2	1	0	0	1	2	2	2	1	0	0	1	2	2	2	1	0	0	1	2	2	1	0	0	0
20	1	2	2	2	1	0	0	1	2	2	2	1	0	0	1	2	2	1	1	0	0	1	1	1	1	0	0	0
24	2	2	2	1	1	0	0	1	1	1	1	0	0	0	1	1	0	0	0	0	0	0	0	-1	0	0	0	
28	2	2	2	1	0	0	0	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	-1	-1	-1	0	0	
32	1	1	1	1	0	0	0	1	1	0	0	0	0	0	0	-1	-1	0	0	0	0	0	-1	-2	-1	0	0	
36	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	-1	0	0	0	0	0	0	-1	-1	-1	0	0	
40	0	-1	-1	-1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
44	-1	-1	-1	-1	0	0	0	-1	-1	-1	0	0	0	0	0	0	0	1	0	0	1	1	1	1	1	0	0	
48	-1	-2	-2	-1	0	0	0	-1	-1	-1	0	0	0	0	0	0	1	1	1	0	0	1	1	1	1	1	0	
52	-1	-2	-2	-1	0	0	0	-1	-1	-1	0	0	0	0	0	1	1	1	1	0	0	1	2	1	1	1	0	
56	-1	-2	-2	-1	-1	0	0	-1	-1	-1	0	0	0	0	0	1	1	1	1	0	0	1	2	2	2	1	0	
60	-2	-2	-2	-1	-1	0	0	-1	-1	-1	0	0	0	0	0	1	1	1	1	0	0	1	2	2	2	1	0	
64	-2	-2	-2	-1	0	0	0	-1	-1	0	0	0	0	0	0	1	1	2	1	0	0	2	2	2	2	1	0	
68	-2	-2	-2	-1	0	0	0	-1	-1	0	1	0	0	0	0	1	2	2	1	0	0	2	3	2	2	1	0	
72	-2	-2	-2	-1	0	0	0	-1	0	0	1	1	0	0	1	2	2	2	1	1	0	2	3	2	2	1	0	
76	-2	-2	-2	-1	0	0	0	-1	0	1	1	1	1	0	1	2	2	2	1	1	0	2	3	2	2	0	0	
80	-2	-2	-2	0	0	0	0	-1	0	1	1	1	1	0	1	2	3	2	1	1	0	2	3	3	2	0	0	

S HEMISPHERE

(PRESSURE)/(ZONAL MEAN PRESSURE) - 1 (Z)

KN LAT= LONGITUDE 60 W LONGITUDE 30 W LONGITUDE 0 DEG LONGITUDE 30 E
-80 -70 -60 -50 -40 -30 -20 -80 -70 -60 -50 -40 -30 -20 -80 -70 -60 -50 -40 -30 -20 -80 -70 -60 -50 -40 -30 -20

AUGUST

18	1	2	2	0	0	0	0	-1	-2	-2	-1	-1	-1	-1	-2	-3	-3	-1	-1	-1	-1	-2	-3	-2	0	0	0	0
20	1	1	1	0	0	0	0	-1	-2	-2	-1	-1	-1	-1	-3	-4	-3	-1	-1	-1	0	-3	-4	-2	0	0	0	0
24	-1	-2	-2	-1	-1	0	0	-3	-4	-3	-1	0	0	0	-4	-5	-3	-1	0	0	0	-3	-4	-3	-1	0	0	0
28	-2	-3	-3	-2	-1	0	0	-3	-4	-3	-1	0	0	0	-3	-4	-3	0	1	0	0	-3	-4	-2	0	0	0	0
32	-2	-3	-3	-2	0	0	0	-3	-3	-2	0	1	1	0	-3	-3	-2	1	1	1	0	-2	-3	-1	0	0	0	0
36	-2	-3	-2	-1	1	1	1	-3	-3	-1	1	2	1	1	-3	-2	-1	2	2	1	0	-2	-2	0	1	0	0	0
40	-2	-3	-1	0	1	1	1	-3	-2	0	2	3	2	1	-2	-2	0	2	2	1	0	-2	-1	1	1	0	0	0
44	-2	-3	-1	1	2	2	1	-2	-2	0	3	3	1	0	-2	-1	1	2	1	0	0	-1	0	2	1	0	0	0
48	-2	-2	0	2	3	2	1	-2	-1	1	3	3	1	0	-1	0	1	2	1	0	0	-1	1	2	2	0	0	0
52	-2	-1	1	3	3	2	1	-1	0	2	3	3	1	0	-1	0	2	2	1	0	0	0	1	2	1	-1	-1	0
56	-1	0	3	4	4	2	1	-1	1	3	3	2	1	0	-1	1	1	1	0	-1	-1	-1	1	1	0	-1	-1	-1
60	0	1	4	5	4	2	1	-1	1	3	3	2	0	0	-1	0	1	0	-1	-2	-1	-1	0	0	-2	-3	-2	-1
64	1	2	4	7	5	2	1	0	2	4	3	2	0	-1	-1	0	0	-1	-3	-3	-2	-2	-1	-1	-3	-4	-3	-2
68	1	3	7	8	5	2	0	0	2	4	3	1	-1	-1	-2	-1	0	-2	-4	-3	-2	-3	-3	-2	-4	-5	-3	-2
72	2	4	7	8	5	2	0	0	1	3	3	1	-1	-2	-3	-2	-1	-3	-4	-4	-2	-4	-4	-3	-5	-6	-3	-2
76	2	5	7	8	5	2	0	-1	1	3	3	0	-2	-2	-3	-3	-2	-3	-5	-4	-3	-5	-5	-4	-5	-6	-4	-2
80	2	5	7	8	5	2	0	-1	0	2	2	-1	-2	-2	-4	-5	-3	-4	5	-4	-3	-6	-6	-4	-5	-6	-4	-2

SEPTEMBER

18	2	2	1	0	0	-1	0	1	0	-1	-2	-1	-1	-1	-1	-3	-4	-4	-2	-1	0	-2	-6	-7	-5	-2	-1	0
20	1	0	-1	-1	-1	1	0	0	-2	-2	-2	-1	-1	0	-2	-4	-4	-3	-2	-1	0	-2	-5	-6	-4	-2	-1	0
24	-2	-4	-4	-3	-2	-1	0	-2	-4	-4	-3	-2	-1	0	-2	-4	-4	-3	-2	-1	0	-1	-3	-4	-3	-1	0	0
28	-3	-5	-6	-4	-2	-1	0	-2	-4	-5	-3	-2	-1	0	-1	-2	-3	-2	-1	-1	0	1	0	-1	-1	0	0	0
32	-4	-6	-6	-4	-2	-1	0	-2	-4	-4	-3	-1	-1	0	0	-1	-2	-1	0	0	0	2	2	1	1	0	0	0
36	-4	-6	-5	-4	-1	0	0	-1	-3	-3	-2	0	0	0	1	1	0	0	0	0	0	3	3	2	2	1	0	0
40	-4	-5	-4	-2	-1	0	0	-1	-2	-1	-1	0	0	0	2	2	1	1	1	0	0	4	5	3	2	1	0	-1
44	-4	-4	-3	-1	0	1	0	-1	-1	0	0	1	1	0	3	3	2	2	1	0	0	5	5	3	2	1	0	-1
48	-3	-3	-2	-1	1	1	0	0	0	1	1	2	1	0	3	4	3	2	2	0	-1	5	5	3	2	1	0	-1
52	-3	-2	0	0	1	1	1	1	2	2	2	2	1	0	4	4	3	3	2	0	-1	6	6	3	2	1	0	-1
56	-2	-1	1	1	2	1	1	1	3	4	3	2	1	0	4	6	4	3	2	1	-1	6	6	3	2	1	0	-1
60	-1	1	3	3	2	2	1	2	5	5	4	3	1	0	5	7	5	4	2	1	-1	6	6	3	2	1	0	-1
64	0	2	4	4	3	1	1	3	6	7	5	3	1	0	5	7	6	4	2	0	-1	6	6	3	2	1	0	-1
68	1	3	5	5	3	1	0	4	7	7	6	3	1	0	5	8	6	4	2	0	-1	5	6	3	1	1	-1	-1
72	2	4	6	5	3	1	0	4	7	8	6	3	1	-1	5	8	6	4	2	0	-1	5	6	2	1	0	-1	-1
76	2	5	6	6	4	2	0	4	7	8	6	3	1	-1	5	7	6	4	2	0	-1	4	5	2	1	0	-1	-1
80	3	5	7	6	4	2	0	4	7	8	6	4	1	0	4	7	5	4	2	0	-1	4	4	1	0	0	-1	-1

OCTOBER

18	0	-1	-1	-1	-1	-1	0	-2	-4	-4	-3	-2	-1	0	-3	-5	-5	-3	-2	-1	0	-4	-5	-5	-3	-1	0	0
20	0	-2	-2	-2	-1	-1	0	-3	-5	-5	-3	-2	-1	0	-4	-6	-5	-3	-2	-1	0	-4	-6	-5	-3	-1	0	0
24	-2	-4	-5	-3	-2	-1	0	-4	-7	-7	-4	-2	-1	0	-4	-7	-6	-4	-2	-1	0	-4	-6	-5	-3	-1	-1	0
28	-3	-5	-6	-4	-2	-1	0	-4	-7	-8	-5	-2	-1	0	-4	-7	-7	-4	-2	-1	0	-4	-5	-4	-2	-1	-1	0
32	-3	-6	-7	-5	-2	-1	0	-4	-7	-8	-5	-2	-1	0	-4	-6	-6	-4	-2	-1	0	-3	-4	-3	-2	-1	0	0
36	-3	-6	-7	-5	-2	0	0	-4	-7	-7	-5	-2	0	0	-3	-6	-5	-3	-1	0	0	-2	-3	-2	-1	0	0	0
40	-3	-5	-6	-4	-2	0	0	-3	-6	-7	-4	-1	0	0	-3	-6	-4	-2	0	0	0	-2	-2	-1	0	0	0	0
44	-3	-5	-6	-4	-1	0	0	-3	-6	-6	-3	-1	0	0	-3	-4	-3	-1	0	0	0	-2	-1	0	1	1	0	-1
48	-2	-4	-5	-3	-1	0	0	-3	-5	-5	-2	0	0	0	-2	-3	-2	0	1	0	0	-1	-1	1	2	1	0	-1
52	-2	-4	-4	-2	-1	0	0	-2	-4	-4	-2	0	0	0	-2	-2	-1	1	1	0	0	-1	0	2	2	1	0	-1
56	-2	-3	-3	-2	0	0	0	-2	-3	-3	-1	0	0	0	-1	-2	0	1	1	0	0	-1	0	2	3	1	0	-1
60	-1	-3	-2	-1	0	0	0	-1	-3	-2	0	0	0	0	-1	-1	1	1	1	0	-1	0	1	2	2	1	0	-1
64	-1	-2	-2	-1	0	0	0	-1	-2	-1	0	0	0	0	-1	0	1	1	1	-1	-1	0	1	2	2	1	-1	-1
68	-1	-2	-2	-1	0	0	0	-1	-2	-2	0	0	-1	-1	-1	0	1	1	0	-1	-1	0	1	2	2	0	-1	-1
72	-1	-2	-2	-1	0	0	0	-1	-2	-2	-1	0	-1	-1	-1	-1	0	0	0	-1	-1	0	1	2	1	0	-1	-1
76	-1	-2	-2	-1	0	-1	-1	-1	-2	-2	-1	0	-1	-1	-1	-1	0	0	0	-1	-1	-1	0	2	1	0	-1	-1
80	-1	-2	-2	-1	0	-1	-1	-1	-2	-3	-1	0	-1	-1	-1	-1	-1	0	0	0	0	-1	0	1	1	0	0	0

NOVEMBER

18	0	1	1	0	-1	-1	0	0	-1	-1	-1	-1	-1	0	-1	-2	-2	-2	-1	0	0	-1	-2	-3	-2	-1	0	0
20	0	0	0	0	-1	-1	0	-1	-1	-1	-1	-1	-1	0	-1	-2	-2	-2	-1	0	0	-2	-2	-2	-2	-1	0	0
24	-1	-1	-2	-1	-1	0	0	-1	-2	-2	-2	-1	-1	0	-2	-3	-3	-2	-1	0	0	-2	-2	-2	-1	-1	0	0
28	-1	-2	-2	-2	-1	0	0	-2	-2	-3	-2	-1	0	0	-2	-2	-2	-2	-1	0	0	-1	-1	-1	-1	0	0	0
32	-1	-2	-2	-2	0	0	0	-1	-2	-2	-2	-1	0	0	-1	-2	-2	-1	-1	-1	0	-1	-1	0	0	0	0	0
36	0	-1	-1	-1	0	0	0	-1	-1	-1	-1	-1	0	0	-1	-1	-1	-1	-1	-1	0	-1	0	0	0	0	0	0
40	0	0	0	0	0	0	0	0	0	0	-1	0	0	0	0	0	0	0	-1	-1	0	0	0	1	0	0	0	0
44	1	1	0	0	0	0	0	1	1	0	0	0	0	0	0	1	1	0	-1	-1	0	0	1	1	0	0	0	0
48	1	2	1	1	0	0	0	1	2	1	0	0	0	0	1	1	1	0	-1	-1	0	0	1	1	0	0	0	0
52	2	2	2	1	1	0	0	1	2	1	0	0	0	0	1	2	1	0	-1	-1	0	0	1	1	0	0	0	0
56	2	2	2	1	1	0	0	2	2	2	0	0	0	0	1	2	1	0	-1	-1	0	0	1	1	0	-1	0	0
60	2	3	2	1	1	0	0	2	2	2	0	0	-1	0	1	2	1	0	-1	-1	0	0	1	1	0	-1	0	0
64	2	3	2	1	0	0	0	2	2	1	0	0	-1	0	1	2	1	0	-1	-1	0	0	1	1	0	-1	0	0
68	2	3	2	1	0	0	0	2	2	1	0	-1	-1	0	1	2	1	0	-1	-1	0	0	1	1	0	0	0	0
72	2	3	2	1	0	0	0	2	2	1	0	-1	-1	0	1	2	1	-1	-1	-1	0	0	1	1	0	0	0	0
76	2	3	1	1	0	0	0	2	2	1	0	-1	-1	0	1	2	1	-1	-1	-1	0	0	1	1	0	0	0	0
80	3	3	1	1	-1	0	0	2	2	0	-1	-1	-1	0	1	2	1	-1	-1	0	0	0	1	1	0	0	0	0

$$(\text{PRESSURE})/(\text{ZONAL MEAN PRESSURE}) - 1 \quad (2)$$

AUGUST

18	-1	-1	-1	0	0	0	0	-1	-1	1	-1	0	0	0	-1	-2	-3	-2	-1	0	0	-1	-2	-3	-2	-1	0	0
20	-2	-2	-1	0	0	0	0	-1	-1	1	-1	0	0	0	-1	-1	-2	-2	-1	0	0	0	-1	-1	-1	-1	0	0
24	-3	-3	-2	-1	0	0	0	-1	-1	1	-1	0	0	0	1	1	1	0	0	0	0	2	3	2	1	1	0	0
28	-2	-2	-1	-1	-1	0	0	0	0	0	0	0	0	0	2	2	3	2	1	0	0	3	4	4	3	2	1	0
32	-1	-1	0	0	-1	-1	0	0	1	2	1	0	0	0	2	3	4	3	1	0	0	3	5	5	4	2	1	0
36	-1	0	1	0	-1	-1	0	1	2	3	1	0	0	0	3	4	4	3	2	0	0	3	4	4	3	2	0	0
40	0	1	2	1	0	0	0	1	3	3	2	1	0	0	3	4	4	3	2	0	0	3	4	2	1	1	0	0
44	0	2	3	2	0	0	0	2	3	4	3	1	1	0	3	4	3	2	2	1	0	3	3	1	0	0	0	-1
48	0	2	3	2	0	0	0	2	3	4	3	1	1	0	3	4	3	2	1	0	0	3	2	0	-1	0	-1	-1
52	0	2	3	2	0	0	0	2	3	4	2	1	1	0	2	3	2	1	1	0	0	2	2	-1	-2	-1	-1	-1
56	0	1	2	1	-1	0	0	1	2	3	2	1	1	0	2	2	1	1	1	0	0	2	1	-2	-2	-1	-1	0
60	-1	0	1	-1	-2	-1	-1	0	1	2	1	1	1	0	1	1	0	1	1	1	0	1	0	-3	-2	0	0	0
64	-2	-1	0	-2	-2	-1	-1	-1	0	1	1	1	1	1	1	0	0	0	2	1	1	1	0	-3	-2	0	0	1
68	-3	-2	-1	-2	-3	1	-1	-1	-1	0	0	1	1	1	0	0	-1	0	2	2	2	1	-1	-4	-3	0	1	1
72	-4	-3	-2	-3	-3	-1	-1	-2	-2	-1	0	1	2	1	0	-1	-2	0	2	2	2	1	-1	-4	-3	0	1	1
76	-5	-4	-3	-3	-2	-1	-1	-3	-2	-1	0	2	2	1	-1	-1	-2	0	2	2	2	1	-1	-4	-3	0	1	1
80	-6	-5	-3	-3	-2	-1	-1	-4	-2	-1	0	2	2	1	-1	-1	-2	-1	2	2	2	2	-1	-4	-4	-1	0	1

18	-2	-6	-7	-5	-2	-1	0	-2	-4	-5	-3	-1	0	0	-1	-1	0	0	0	0	0	-1	3	5	4	2	1	1
20	-2	-5	-6	-4	-2	-1	0	-1	-3	-3	-2	-1	0	0	0	0	1	1	1	0	0	1	4	6	4	2	1	0
24	0	-1	-2	-2	-1	0	0	1	1	0	1	0	0	0	2	3	4	3	1	1	0	2	5	6	5	2	1	0
28	2	2	1	1	0	0	0	3	3	3	3	1	0	0	3	5	6	4	2	1	0	2	5	7	5	2	1	0
32	4	4	3	2	1	0	0	4	5	5	4	2	0	0	4	5	6	5	2	0	0	2	5	6	4	2	1	0
36	5	5	4	3	1	0	-1	5	6	5	4	2	0	-1	4	5	6	4	2	0	0	2	4	5	3	1	0	0
40	5	6	4	3	1	0	-1	5	6	5	3	1	-1	-1	4	5	5	3	1	-1	-1	1	3	4	2	0	0	0
44	6	6	3	2	1	-1	-1	6	6	4	2	0	-1	-1	4	4	4	2	0	-1	-1	1	2	3	1	0	-1	0
48	6	6	3	2	0	-1	-1	5	5	3	1	0	-1	-1	4	4	3	1	-1	-1	-1	1	1	2	0	-1	-1	0
52	6	5	2	1	0	-1	-1	5	4	2	1	-1	-2	-1	3	3	2	0	-1	-2	-1	0	0	1	0	-1	-1	0
56	6	5	1	1	0	-1	-1	4	3	1	0	-1	-2	-1	2	1	0	-1	-2	-2	-1	-1	-1	-1	-1	-2	-1	0
60	6	4	1	0	0	-1	-1	4	2	0	-1	-1	-2	-1	1	0	-1	-2	-2	-2	-1	-2	-2	-2	-2	-3	-1	0
64	5	4	0	0	0	-1	-1	3	1	-2	-2	-2	-2	-1	0	-1	-2	-3	-3	-2	-1	-3	-4	-3	-3	-1	0	0
68	4	3	-1	-1	-1	-2	-1	2	0	-2	-2	-2	-2	-1	-1	-2	-3	-3	-3	-2	-1	-3	-5	-4	-3	-1	0	0
72	3	2	-1	-2	-1	-2	-1	1	-1	-3	-1	-2	-2	-1	-2	-3	-4	-3	-3	-2	-1	-4	-5	-4	-4	-3	-1	0
76	3	2	-2	-2	-2	-2	-1	0	-1	-3	-3	-2	-2	-1	-2	-3	-4	-3	-3	-2	-1	-4	-5	-4	-4	-3	-1	0
80	2	1	-2	-2	-2	-2	-1	0	-1	-4	-3	-3	-2	-1	-2	-3	-4	-3	-3	-2	-1	-4	-5	-4	-4	-3	-1	0

18	-3	-4	-4	-2	-1	0	0	-2	-3	-3	-2	-1	0	0	-1	-1	-1	0	0	0	0	1	2	2	1	1	1	0
20	-3	-4	-4	-2	-1	0	0	-2	-2	-2	-1	0	0	0	0	0	0	0	0	0	0	2	3	3	2	1	1	0
24	-3	-3	-3	-1	0	0	0	-1	0	0	0	0	0	0	2	3	3	2	1	1	0	4	6	6	3	2	1	0
28	-2	-2	-1	0	0	0	0	0	1	1	2	1	0	0	3	4	4	3	2	1	0	4	7	7	4	2	1	0
32	-1	-1	0	1	0	0	0	1	2	2	2	1	0	0	3	4	5	4	2	1	0	4	7	7	4	2	1	0
36	-1	0	1	1	1	0	0	1	2	3	3	1	0	0	3	4	5	4	3	2	1	4	6	6	4	2	1	0
40	0	0	1	2	1	0	0	1	2	2	2	1	0	0	3	3	3	2	1	0	0	3	5	4	3	1	0	0
44	0	1	2	2	1	0	-1	1	1	2	2	1	0	0	2	2	2	1	1	0	0	3	4	3	1	0	0	0
48	0	1	2	2	1	0	-1	1	1	1	2	1	0	-1	2	2	1	1	0	0	0	3	3	2	0	0	0	0
52	0	1	2	2	1	0	-1	1	1	1	1	0	0	-1	2	1	0	0	0	0	0	2	2	0	-1	-1	0	0
56	0	1	2	2	1	0	-1	1	1	0	1	0	0	-1	2	0	-1	-1	-1	0	0	2	1	-1	-1	-1	0	0
60	0	1	2	2	1	0	-1	1	0	0	0	0	0	-1	1	-1	-2	-1	-1	0	0	1	0	-2	-2	-1	0	0
64	0	1	2	2	0	-1	-1	1	0	-1	0	0	0	-1	1	-1	-3	-2	-1	0	0	1	-1	-2	-2	-1	0	0
68	0	1	1	1	0	-1	-1	0	-1	-1	0	-1	-1	0	0	-2	-3	-2	-1	0	0	1	-1	-2	-2	-1	0	0
72	0	0	1	1	0	-1	-1	0	-1	-1	-1	-1	-1	0	0	-2	-3	-2	-1	0	0	1	-1	-2	-2	-1	1	1
76	-1	0	1	1	0	-1	-1	-1	-1	-1	-1	-1	-1	0	0	-2	-3	-2	-1	0	0	1	-1	-2	-2	-1	1	1
80	-1	0	1	1	0	-1	-1	-1	-2	-2	-1	-1	-1	-1	0	-2	-3	-2	-1	-1	0	1	0	-2	-2	-1	0	1

18	-1	-2	-2	-2	0	0	0	-1	-1	-1	-1	0	0	0	0	0	0	0	0	0	0	0	0
20	-1	-1	-2	-2	-1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
24	-1	-1	0	0	0	0	0	0	0	1	1	1	1	0	0	0	0	0	0	0	0	0	
28	0	0	1	1	0	0	0	1	1	2	2	1	0	0	1	2	3	2	1	0	0	0	
32	0	0	1	1	0	0	0	1	2	2	2	1	0	0	1	2	2	2	1	0	0	0	
36	0	1	1	1	0	0	0	0	1	2	1	1	0	0	1	1	1	1	0	0	0	0	
40	0	1	1	1	0	0	0	0	0	1	1	0	0	0	0	0	0	0	0	0	0	0	
44	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	-1	0	0	0	0	0	0	
48	0	0	1	0	0	0	0	0	-1	0	0	0	0	0	-1	-2	-2	-1	0	-0	0	0	
52	0	0	1	0	0	0	0	-1	-1	-1	0	0	0	0	-1	-2	-2	-1	0	0	0	0	
56	0	0	0	0	0	0	0	-1	-1	-1	0	0	0	0	-1	-2	-2	-1	0	0	0	0	
60	0	0	0	0	0	0	0	-1	-1	-1	0	0	0	0	-1	-3	-3	-2	-1	0	0	0	
64	0	0	0	0	0	0	0	-1	-2	-1	-1	0	0	0	-1	-3	-3	-2	0	0	0	0	
68	-1	0	0	0	0	0	0	-1	-2	-1	-1	0	0	0	-1	-3	-3	-1	0	0	0	0	
72	-1	0	0	0	0	0	1	-1	-2	-1	-1	0	0	0	-1	-3	-3	-1	0	0	0	0	
76	-1	0	0	0	0	0	1	-1	-2	-1	-1	0	0	0	-1	-3	-3	-1	0	0	0	0	
80	-1	0	0	0	0	0	1	-1	-2	-2	-1	0	0	0	-1	-4	-3	-1	0	0	0	0	

N HEMISPHERE

(PRESSURE)/(ZONAL MEAN PRESSURE) - 1 (%)

KN LAT=	LONGITUDE 180 DEG								LONGITUDE 150 W								LONGITUDE 120 W								LONGITUDE 90 W								BOBEG
	20	30	40	50	60	70	80	20	30	40	50	60	70	80	20	30	40	50	60	70	80	20	30	40	50	60	70	80					
SEPTEMBER																																	
18	0	1	1	1	1	1	0	0	0	1	1	1	1	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0		
20	0	1	1	1	1	1	0	0	0	1	1	1	1	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0		
24	0	1	1	1	1	1	0	0	0	1	1	1	1	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0		
28	0	1	1	1	1	1	0	0	0	1	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
32	1	1	1	1	1	1	0	0	0	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
36	1	1	1	1	1	1	0	0	0	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
40	1	1	1	1	1	1	0	0	0	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
44	1	1	1	0	0	0	0	0	0	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
48	1	1	1	0	0	0	0	0	0	1	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
52	1	1	1	0	0	0	0	0	0	1	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
56	1	1	1	0	0	0	0	0	0	1	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
60	1	1	1	0	0	0	0	0	0	1	1	1	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0		
64	1	1	1	0	0	0	0	0	0	1	1	1	1	0	-1	0	1	0	1	1	0	0	0	0	0	0	0	0	0	0	0		
68	1	1	1	0	0	0	0	0	0	1	1	1	1	0	-1	1	1	1	1	1	0	0	0	0	0	0	0	0	0	0	0		
72	1	1	1	0	0	0	0	0	0	1	1	1	1	0	0	1	1	1	1	1	0	0	0	1	0	0	0	0	0	0	0		
76	1	1	1	0	0	1	0	0	0	1	2	1	1	0	-1	1	1	1	1	0	0	-1	0	1	0	0	0	0	0	0	0		
80	1	1	0	0	0	1	0	0	0	1	2	1	1	0	1	1	2	1	1	0	0	-1	0	1	0	0	0	-1	-1	-1	-1		
OCTOBER																																	
18	0	1	1	0	0	0	0	0	0	1	1	1	0	0	0	0	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0		
20	0	1	1	1	1	1	0	0	0	1	1	1	1	0	0	0	0	1	1	1	0	0	0	0	0	0	0	0	0	0	0		
24	0	1	1	2	2	2	1	0	0	1	1	2	2	1	0	0	0	0	1	1	1	1	0	0	0	0	0	0	0	0	0		
28	0	0	1	3	4	4	2	0	0	0	1	2	3	2	0	0	0	0	0	1	1	1	0	0	-1	-1	-1	0	0	0	0		
32	0	0	1	3	6	6	3	0	0	0	1	3	4	2	0	0	-1	-1	0	1	1	1	0	0	-1	-2	-2	-2	-1	0	0		
36	0	0	1	4	7	8	5	0	0	0	1	3	4	3	0	0	-1	-2	-2	0	0	0	0	0	-2	-4	-5	-4	-2	-1	0		
40	0	0	0	3	7	9	5	0	0	-1	0	2	3	2	0	0	-2	-3	-3	-2	-1	0	0	0	-2	-5	-7	-6	-3	-1	0		
44	0	-1	0	3	7	8	5	0	-1	-2	-1	1	2	2	0	-1	-2	-4	-5	-3	-2	0	0	0	-2	-6	-8	-7	-4	-1	0		
48	0	-1	0	2	6	8	5	0	-1	-2	-2	0	1	1	0	-1	-3	-5	-5	-4	-2	1	0	0	-3	-6	-8	-8	-5	-1	0		
52	0	-1	-1	2	6	7	4	0	-1	-2	-2	-1	0	0	0	-1	-3	-6	-6	-5	-3	1	0	0	-3	-7	-9	-8	-5	-1	0		
56	0	-1	-1	1	5	6	4	0	-1	-2	-3	-1	0	0	0	-1	-4	-6	-6	-5	-3	1	0	0	-3	-7	-9	-7	-5	-1	0		
60	0	-1	-1	1	4	5	4	0	-1	-3	-3	-2	-1	0	0	-1	-4	-6	-6	-5	-3	1	0	0	-3	-7	-8	-7	-5	-1	0		
64	0	-1	-1	0	3	5	4	0	-1	-3	-3	-2	0	0	0	-1	-4	-6	-6	-4	-3	1	0	0	-3	-6	-7	-5	-4	-1	0		
68	0	-1	-2	0	3	4	3	0	-1	-3	-3	-2	0	0	0	-1	-4	-6	-6	-4	-3	1	0	0	-2	-6	-7	-5	-4	-1	0		
72	0	-1	-2	0	3	4	3	0	-1	-3	-3	-2	0	0	0	-1	-3	-5	-6	-3	-2	1	0	0	-2	-5	-7	-4	-3	-1	0		
76	0	-1	-2	0	3	5	3	0	-1	-3	-3	-2	1	1	0	0	-3	-5	-5	-3	-1	1	0	0	-2	-5	-7	-4	-3	-1	0		
80	0	-1	-1	0	3	5	2	0	0	-2	-3	-1	1	1	1	1	0	-3	-5	-5	-2	-1	1	1	-2	-5	-7	-4	-3	-1	0		
NOVEMBER																																	
18	1	2	2	1	1	1	1	0	1	2	2	3	2	1	0	0	1	2	2	2	1	-1	0	0	1	1	1	1	1	1	1		
20	1	2	2	2	2	2	1	0	1	2	3	4	3	2	0	0	1	2	3	3	2	-1	0	0	1	1	2	1	2	1	1		
24	0	1	2	4	5	5	3	0	1	1	4	6	6	4	0	0	0	2	4	5	4	0	-1	-1	0	2	3	3	3	3	3		
28	0	0	2	6	9	9	5	0	0	1	5	9	10	6	0	-1	-1	2	5	7	6	0	-1	-1	0	2	4	4	4	4	4		
32	0	0	2	8	12	12	7	0	-1	0	5	11	13	8	0	-1	-1	1	6	9	6	0	-1	-2	-1	1	3	3	3	3	3		
36	-1	-1	2	8	14	15	8	-1	-1	0	5	12	14	9	-1	-2	-2	1	5	6	5	0	-1	-3	-2	-1	1	2	2	2	2		
40	-1	-1	1	8	15	15	9	-1	-2	-1	4	11	13	8	-1	-2	-2	0	4	5	4	0	-2	-3	-3	-2	-1	1	1	1	1		
44	-2	-2	0	7	14	15	9	-1	-2	-1	4	10	12	7	-1	-2	-2	0	4	5	4	0	-1	-3	-4	-4	-3	-1	1	1	1		
48	-2	-2	0	6	14	14	8	-1	-2	-1	3	9	11	7	-1	-2	-2	0	3	4	3	0	-1	-3	-4	-4	-3	-1	1	1	1		
52	-2	-2	0	6	13	14	8	-2	-2	-1	3	8	10	6	-1	-2	-2	0	2	3	2	0	-1	-3	-4	-5	-4	-2	1	1	1		
56	-2	-2	-1	5	12	13	7	-2	-2	-2	2	7	8	5	-1	-2	-3	-1	0	1	1	0	-1	-3	-5	-6	-5	-2	1	1	1		
60	-2	-2	-1	5	11	12	6	-1	-2	-2	1	5	7	4	-1	-2	-3	-2	-1	0	0	0	-1	-3	-5	-7	-6	-3	1	1	1		
64	-1	-1	-1	4	9	11	5	-1	-1	-2	1	4	5	3	-1	-1	-3	-3	-2	-1	0	0	-1	-3	-5	-7	-6	-3	1	1	1		
68	-1	-1	0	3	8	9	5	-1	-1	-1	0	2	4	2	-1	-1	-2	-3	-3	-2	-1	0	-1	-3	-5	-7	-7	-3	1	1	1		
72	-1	0	0	2	6	8	4	0	-1	-1	0	1	3	2	0	-1	-2	-3	-3	-3	-1	0	-1	-2	-4	-6	-6	-3	1	1	1		
76	-1	-1	0	2	5	7	4	0	0	-1	0	1	2	1	0	-1	-2	-3	-3	-3	-1	0	-1	-2	-4	-6	-6	-3	1	1	1		
80	-1	-1	-1	2	4	6	3	0	0	-1	0	1	2	1	1	1	0	-1	-2	-3	-3	-1	1	0	-2	-4	-5	-5	-3	1	1	1	
DECEMBER																																	
18	1	2	1	0	1	1	1	0	1	1	1	2	2	1	0	0	1	1	1	1	0	-1	0	1	1	0	0	0	0	0	0		
20	1	2	2	2	3	3	2	0	1	2	3	4	4	2	0	0	1	2	3	3	2	-1	0	1	1	1	1	1	1	1	1		
24	0	1	3	5	7	7	4	0	1	3	6	9	9	5	0	0	1	4	6	7	4	0	-1	0	1	2	2	2	2	2	2		
28	0	1	4	9	13	12	6	0	0	3	8	13	13	7	0	-1	0	4	8	9	6	0	-1	-1	0	2	3	3	3	3	3		
32	0	0	4	11	16	15	8	-1	-1	2	9	16	15	8	-1	-1	-2	2	8	9	5	0	-2	-4	-4	-2	0	1	1	1	1		
36	-1	-1	3	12	18	16	9	-1	-2	0	7	15	14	8	-1	-2	-4	-1	5	6	4	0	-2	-5	-7	-5	-1	0	0	0	0		
40	-1	-1	2	11	16	15	9	-1	-3	-2	5	11	11	7	-1	-3	-6	-4	1	3	2	0	-2	-6	-9	-7	-5	-2	0	0			

N HEMISPHERE

(PRESSURE)/(ZONAL MEAN PRESSURE) - 1 (Z)

LONGITUDE 40 W LONGITUDE 30 W LONGITUDE 0 DEG LONGITUDE 30 E

KM LAT= 20 30 40 50 60 70 80 20 30 40 50 60 70 80 20 30 40 50 60 70 80 20 30 40 50 60 70 80 DEG

SEPTEMBER

18	0	0	0	0	-1	-1	0	-1	-1	0	0	0	0	0	0	0	0	0	-1	-1	0	0	0	0	0
20	0	0	0	0	-1	-1	0	-1	-1	0	0	0	0	0	0	0	0	0	-1	-1	0	0	0	0	0
24	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
28	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	-1	0	0	0
32	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	-1	-1	0	0	0
36	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	-1	-1	-1	0	0
40	0	0	0	0	0	0	0	0	0	0	-1	-1	0	0	0	0	-1	-1	0	0	0	0	-1	-1	0
44	0	0	0	0	0	0	0	0	0	0	-1	-1	-1	0	0	0	-1	-1	0	0	0	0	-1	-1	0
48	0	0	0	-1	0	0	0	0	0	0	-1	-1	-1	0	0	0	0	-1	-1	0	0	0	-1	-1	0
52	0	0	0	-1	-1	0	0	0	0	0	-1	-1	-1	0	0	0	0	-1	-1	0	0	0	0	0	0
56	0	0	0	-1	-1	0	0	0	0	0	-1	-1	-1	0	0	0	0	-1	-1	0	0	0	0	0	0
60	0	0	0	-1	-1	0	0	0	0	0	-1	-1	-1	0	0	0	0	-1	-1	0	0	0	0	0	0
64	0	0	0	0	0	0	0	0	0	0	-1	-1	0	0	0	0	0	-1	-1	0	0	0	0	0	0
68	0	0	0	0	0	0	0	0	0	0	-1	-1	0	0	0	0	0	-1	-1	0	0	0	0	0	0
72	0	0	0	0	0	0	0	0	0	0	-1	-1	0	0	0	0	0	-1	-1	0	0	0	0	0	0
76	0	0	0	0	-1	-1	0	0	0	0	-1	-1	-1	0	0	0	0	0	0	0	0	0	0	0	1
80	0	0	0	0	-1	-1	-1	-1	0	0	-1	-1	-1	0	-1	0	0	0	0	0	0	0	0	0	1

OCTOBER

18	0	-1	0	0	0	1	1	-1	-1	0	1	1	2	1	-1	-1	0	1	2	2	1	0	-1	-1	0	1	1	1
20	0	0	0	0	0	1	1	-1	-1	0	1	1	2	1	-1	-1	0	1	2	2	1	0	-1	-1	0	0	1	0
24	0	0	0	0	0	0	1	0	0	0	0	1	1	1	0	0	0	0	1	1	1	0	0	-1	-1	-1	0	0
28	0	0	0	-1	-1	-1	0	0	0	0	0	0	0	0	0	0	0	-1	-1	-1	-1	0	0	0	-1	-2	-2	-1
32	0	0	-1	-2	-3	-3	-2	0	0	0	-2	-3	-3	-2	0	0	0	-1	-3	-3	-2	0	0	0	-1	-3	-4	-2
36	0	0	-1	-4	-5	-5	-3	0	1	0	-3	-5	-6	-4	0	1	0	-2	-4	-5	-3	0	0	0	-1	-3	-4	-3
40	0	0	-1	-5	-7	-8	-5	1	1	0	-3	-7	-7	-5	0	1	0	-2	-5	-6	-4	0	1	1	0	-3	-4	-3
44	1	0	-2	-5	-9	-9	-5	1	1	0	-4	-7	-8	-5	0	1	1	-2	-5	-7	-4	0	1	1	0	-2	-4	-2
48	1	0	-2	-6	-9	-9	-5	1	1	0	-4	-8	-8	-5	1	1	1	-1	-5	-6	-4	0	1	2	1	-1	-3	-2
52	1	1	-2	-6	-9	-9	-6	1	1	0	-4	-8	-8	-5	1	1	1	-1	-5	-6	-3	0	1	2	2	-1	-2	-1
56	1	1	-2	-6	-9	-9	-6	1	1	0	-4	-8	-8	-5	1	2	2	-1	-4	-5	-3	0	1	2	2	0	-2	-1
60	1	1	-2	-6	-9	-8	-5	1	2	0	-3	-7	-7	-4	1	2	2	0	-4	-5	-3	0	1	3	3	1	-1	-1
64	1	1	-1	-5	-8	-7	-5	1	2	1	-3	-6	-6	-4	1	2	2	1	-3	-4	-3	0	1	3	3	1	-1	-1
68	1	1	-1	-5	-8	-6	-5	1	2	1	-2	-6	-5	-4	1	2	3	1	-2	-4	-2	0	1	3	4	1	-1	0
72	1	1	-1	-4	-7	-5	-5	1	2	1	-1	-5	-4	-4	1	2	3	1	-2	-3	-3	0	1	3	4	2	-1	-1
76	1	1	0	-4	-7	-5	-4	1	1	2	-1	-4	-4	-4	1	1	3	2	-2	-3	-3	0	1	3	3	1	-2	-1
80	1	1	0	-3	-6	-4	-4	0	1	2	-1	-4	-4	-4	0	1	3	2	-1	-3	-3	0	0	2	3	1	-2	-1

NOVEMBER

18	-1	-1	0	1	1	1	1	-1	-1	0	1	2	2	1	-1	-1	0	1	2	2	1	-1	-1	-1	0	0	0	0
20	-1	-1	0	0	1	1	1	-1	-1	0	1	1	1	1	0	-1	0	1	1	1	0	0	-1	-1	-1	-1	-1	0
24	0	-1	-1	0	0	1	1	0	-1	-1	0	0	0	0	0	0	-1	-1	-1	-1	-1	0	0	-1	-2	-4	-4	-3
28	0	-1	-1	-2	-1	0	1	0	0	-1	-2	-2	-2	-2	0	0	-1	-3	-4	-5	-4	0	0	-1	-4	-7	-7	-5
32	0	-1	-2	-3	-3	-2	0	0	0	-2	-4	-5	-5	-3	1	1	-2	-5	-8	-8	-5	1	1	-1	-6	-9	-10	-6
36	0	-1	-3	-4	-5	-4	-2	1	0	-2	-6	-8	-8	-5	1	1	-2	-7	-10	-10	-6	1	2	0	-6	-10	-11	-7
40	0	-1	-3	-5	-7	-6	-3	1	0	-3	-7	-10	-9	-6	1	1	-1	-7	-11	-11	-7	1	2	0	-5	-10	-10	-7
44	0	-1	-3	-6	-8	-7	-4	1	0	-3	-7	-10	-10	-6	2	2	-1	-7	-11	-11	-7	2	3	1	-5	-10	-10	-6
48	0	-1	-3	-6	-8	-8	-4	1	1	-2	-8	-11	-10	-6	2	2	-1	-7	-11	-11	-6	2	3	2	-4	-9	-9	-5
52	1	-1	-3	-7	-9	-8	-5	1	1	-2	-8	-11	-11	-6	2	2	0	-5	-11	-11	-6	2	3	2	-3	-8	-8	-5
56	1	0	-3	-7	-10	-9	-5	1	1	-2	-8	-12	-10	-6	2	3	0	-6	-10	-10	-5	2	3	3	-2	-7	-7	-4
60	1	0	-3	-7	-10	-9	-5	1	1	-1	-7	-11	-10	-5	2	3	1	-5	-9	-9	-5	2	3	3	-1	-5	-6	-3
64	1	0	-3	-7	-10	-9	-4	1	1	-1	-6	-10	-9	-5	1	2	1	-4	-8	-7	-4	1	2	3	0	-4	-5	-3
68	1	0	-2	-6	-9	-8	-4	1	1	0	-5	-8	-8	-4	1	2	1	-3	-6	-6	-4	1	2	3	0	-3	-3	-2
72	1	0	-2	-5	-8	-7	-4	1	1	0	-4	-7	-7	-4	1	2	2	-2	-5	-5	-3	1	2	2	0	-2	-2	-2
76	0	0	-1	-4	-7	-7	-3	1	1	0	-3	-6	-5	-3	1	2	2	-1	-4	-3	-2	1	2	2	1	-1	-2	-2
80	0	0	-1	-4	-5	-6	-3	1	1	1	-2	-4	-4	-2	1	2	2	-1	-3	-2	-2	1	2	3	1	-1	-1	-1

DECEMBER

18	-1	0	1	1	0	-1	0	-1	-1	1	2	1	0	0	-1	-1	1	2	3	1	0	-1	-2	-1	1	2	1	0
20	-1	0	0	1	0	-1	0	-1	-1	0	1	0	0	0	-1	-1	0	1	1	0	0	0	-1	-1	0	0	0	-1
24	0	-1	-1	-1	-2	-1	0	0	-1	-1	-2	-2	-3	-1	0	-1	-1	-2	-3	-3	-2	0	-1	-2	-3	-4	-4	-3
28	0	-1	-3	-4	-4	-3	-1	0	0	-3	-5	-6	-6	-3	0	0	-2	-5	-6	-6	-4	0	0	-1	-5	-7	-7	-5
32	0	-1	-4	-7	-7	-6	-2	1	0	-3	-7	-9	-8	-4	1	1	-1	-5	-8	-8	-6	1	1	0	-4	-8	-8	-4
36	0	-1	-4	-9	-10	-8	-3	1	1	-2	-8	-10	-9	-5	1	2	0	-5	-8	-9	-6	1	2	1	-3	-7	-8	-4
40	1	0	-4	-10	-11	-9	-4	1	2	0	-7	-10	-9	-6	1	2	2	-3	-7	-8	-6	1	2	2	-1	-5	-7	-6
44	1	0	-3	-9	-11	-9	-5	1	2	1	-5	-9	-9	-6	1	3	4	-1	-6	-8	-6	1	2	3	1	-3	-5	-5
48	1	1	-3	-9	-11	-9	-5	1	3	2	-4	-9	-9	-6	1	3	5	0	-5	-7	-5	1	2	4	2	-1	-4	-4
52	1	1	-2	-8	-11	-10	-5	2	4	3	-3	-8	-9	-6	1	4	6	2	-4	-6	-5	1	2	4	3	0	-3	-4
56	1	2	-1	-7	-11	-10	-6	2	4	4	-2	-7	-8	-5	1	4	6	3	-3	-5	-4	1	2	5	4	1	-2	-3
60	1	2	0	-7	-10	-10	-6	2	4	5	-1	-6	-8	-5	1	4	7	3	-2	-5	-4	1	2	5	5	2	-1	-3
64	1	3	0	-6	-9	-9	-6	2	4	6	0	-5	-7	-5	1	4	7	4	-1	-4	-3	0	2	5	5	3	1	-2
68	1	3	1	-5	-8	-8	-5	2	5	6	1	-4	-6	-4	1	4	8	5	0	-3	-3	0	1	5	5	3	0	-2
72	1	3	1	-4	-7	-8	-5	2	5	7	1	-4	-5	-4	1	4	8	5	1	-2	-3	0	1	5	5	3	0	-2
76	1	3	2	-4	-6	-7	-4	2	5	7	1	-3	-5	-4	1	4	8	5	1	-2	-2	0	1	5	5	3	0	-1
80	1																											

N HEMISPHERE

(PRESSURE)/(ZONAL MEAN PRESSURE) - 1 (%)

KN LAT=	LONGITUDE 60 E								LONGITUDE 90 E								LONGITUDE 120 E								LONGITUDE 150 E								CODES	
	20	30	40	50	60	70	80	20	30	40	50	60	70	80	20	30	40	50	60	70	80	20	30	40	50	60	70	80						
SEPTEMBER																																		
18	0	0	-1	-1	0	0	0	0	0	0	-1	-1	-1	0	0	1	0	-1	-1	0	0	0	1	0	0	0	0	0	0	0	0	0	0	
20	0	0	-1	-1	0	0	0	0	0	0	-1	-1	-1	0	0	0	0	-1	-1	-1	0	0	1	0	0	0	0	0	0	0	0	0	0	
24	0	0	-1	-1	-1	-1	0	0	0	0	-1	-1	-1	0	0	0	0	0	-1	-1	0	0	0	0	0	0	0	0	0	0	0	0	0	
28	0	-1	-1	-1	-1	-1	0	0	0	0	0	-1	-1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
32	0	-1	-1	-1	-1	-1	0	0	-1	0	0	-1	-1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
36	-1	-1	-1	0	-1	-1	0	-1	-1	-1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
40	-1	-1	0	0	0	-1	0	-1	-1	-1	0	0	0	0	0	0	0	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	
44	-1	-1	0	0	0	0	0	0	-1	-1	0	0	1	0	0	0	0	0	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	
48	-1	-1	0	0	0	0	0	0	-1	-1	0	0	1	0	0	0	0	0	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	
52	-1	-1	0	0	0	0	0	0	-1	-1	-1	0	1	1	0	0	0	0	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	
56	-1	-1	0	0	0	0	0	0	-1	-1	-1	0	1	1	0	0	0	0	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	
60	-1	-1	0	0	0	0	0	0	-1	-1	-1	0	1	1	0	0	-1	-1	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	
64	-1	-1	0	0	0	0	0	0	-1	-1	-1	0	1	1	0	0	-1	-1	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	
68	-1	-1	-1	0	0	0	0	0	-1	-1	-1	0	0	0	0	0	-1	-1	-1	0	0	0	0	0	0	0	-1	0	0	0	0	0	0	
72	-1	-1	-1	0	0	0	0	0	-1	-2	-1	0	0	0	0	0	0	-1	-1	-1	0	0	0	0	0	0	0	-1	0	0	0	0	0	
76	-1	-1	-1	0	0	0	0	0	-1	-2	-1	0	0	0	0	0	0	-1	-1	-1	0	0	0	0	1	0	0	-1	0	0	0	0	0	
80	-1	-1	0	1	1	0	0	1	-1	-2	-1	0	0	0	0	0	0	-1	-1	-1	0	0	0	1	0	-1	-1	0	0	0	0	0	0	
OCTOBER																																		
18	0	0	-1	-1	-1	-1	0	0	0	-1	-2	-2	-2	-1	1	1	0	-2	-2	-2	-1	1	1	1	-1	-1	-1	-1	-1	-1	-1	-1	-1	
20	0	0	-1	-1	-1	-1	-1	0	0	-1	-2	-3	-2	-1	1	1	0	-1	-2	-2	-1	1	1	1	0	0	-1	-1	-1	-1	-1	-1	-1	
24	0	0	-1	-2	-3	-2	-1	0	0	-1	-2	-3	-3	-2	0	0	0	-1	-2	-2	-1	0	0	1	1	1	0	0	0	0	0	0	0	
28	0	0	-1	-2	-3	-3	-2	0	0	0	-1	-2	-3	-1	0	0	0	1	0	0	0	0	0	1	2	3	2	1	0	0	0	0	0	
32	0	0	0	-1	-3	-3	-2	-1	0	0	0	-1	-1	-1	0	0	1	2	3	2	1	-1	-1	1	4	5	5	3	3	3	3	3	3	
36	0	0	1	0	-1	-2	-1	-1	0	1	2	2	1	1	-1	-1	1	4	6	6	3	0	-1	1	5	10	11	6	6	6	6	6	6	
40	0	0	1	1	0	-1	0	-1	0	2	4	5	4	2	2	-1	-1	2	5	8	9	5	0	-1	1	6	11	12	7	7	7	7	7	
44	-1	0	2	3	2	1	0	-1	0	2	5	7	6	3	3	-1	-1	2	6	10	11	6	0	-1	1	6	11	12	7	7	7	7	7	
48	-1	0	2	4	3	2	1	-1	0	2	6	8	8	4	4	-1	-1	2	7	11	11	6	-1	-1	1	5	11	12	7	7	7	7	7	
52	-1	0	2	4	4	3	1	-1	0	3	7	10	9	5	5	-1	-1	2	7	12	12	7	-1	-1	1	5	10	11	6	6	6	6	6	
56	-1	0	3	5	4	2	1	-1	0	3	7	10	8	4	4	-1	-1	2	7	11	11	6	-1	-1	0	5	9	10	6	6	6	6	6	
60	-1	0	3	5	6	4	2	-1	0	3	7	10	8	4	4	-1	-1	1	6	10	10	6	-1	-1	0	4	8	9	6	6	6	6	6	
64	-1	0	3	5	6	3	2	-1	0	3	7	10	8	4	4	-1	-1	1	6	10	10	6	-1	-1	0	3	7	8	5	5	5	5	5	
68	-1	0	3	5	5	2	2	-1	0	2	6	8	6	4	4	-1	-1	1	5	9	8	5	-1	-1	0	3	6	7	5	5	5	5	5	
72	-1	0	2	5	5	1	2	-1	0	2	5	7	5	4	4	-1	-1	1	4	8	7	5	-1	-1	0	3	6	7	5	5	5	5	5	
76	-1	0	2	4	4	0	2	-1	-1	1	4	6	3	3	3	-1	-1	0	4	7	6	4	-1	-1	-1	2	6	7	4	4	4	4	4	
80	-1	0	1	4	4	-1	2	-1	-1	1	4	6	2	3	3	-1	-1	0	4	7	5	4	-1	-1	0	2	6	6	4	4	4	4	4	
NOVEMBER																																		
18	0	-1	-1	-2	-2	-2	-1	1	0	-2	-3	-4	-4	-2	1	1	-1	-3	-4	-3	-2	1	2	0	-1	-1	-1	-1	-1	-1	-1	-1	-1	
20	0	-1	-1	-2	-3	-3	-2	1	0	-1	-3	-5	-5	-3	1	1	-1	-2	-4	-3	-2	1	1	1	0	-1	-1	-1	-1	-1	-1	-1	-1	
24	0	0	-1	-4	-6	-6	-4	0	0	-1	-3	-6	-7	-4	0	0	1	-1	-3	-4	-2	0	1	2	2	2	2	2	2	2	2	2	2	
28	0	0	-1	-4	-8	-9	-6	0	0	0	-2	-6	-7	-5	0	0	2	1	-1	-3	-2	0	1	3	5	5	4	4	4	4	4	4	4	
32	0	1	0	-4	-9	-10	-8	0	1	2	-1	-5	-7	-4	0	0	3	4	2	-1	-1	-1	0	3	7	9	7	7	7	7	7	7	7	
36	1	2	1	-3	-8	-9	-6	0	1	3	1	-3	-5	-3	-1	0	4	6	5	2	1	-1	0	3	9	12	10	7	7	7	7	7	7	
40	1	2	2	-2	-7	-8	-5	0	2	4	3	-1	-3	-2	-1	0	4	7	7	5	2	-1	-1	3	9	13	12	7	7	7	7	7	7	
44	1	3	3	-1	-5	-7	-4	0	2	4	4	1	-1	-1	-1	0	3	7	8	7	3	-1	-1	2	8	14	13	7	7	7	7	7	7	
48	1	3	3	0	-4	-5	-3	0	2	4	4	3	1	0	0	0	3	7	10	8	4	-2	-1	2	8	14	13	7	7	7	7	7	7	
52	1	3	4	1	-2	-4	-3	0	1	4	5	4	2	1	-1	-1	2	8	12	10	4	-2	-2	1	7	14	14	7	7	7	7	7	7	
56	1	2	4	2	-1	-3	-2	0	1	4	6	6	3	1	-1	-1	2	8	12	10	5	-1	-1	0	7	14	13	6	6	6	6	6	6	
60	1	2	4	3	0	-2	-1	0	1	3	6	7	4	2	-1	-1	1	7	11	10	5	-1	-1	0	6	12	12	6	6	6	6	6	6	
64	1	1	3	4	2	-1	-1	0	0	3	6	7	5	2	0	-1	1	6	10	9	4	-1	-1	0	5	11	11	6	6	6	6	6	6	
68	0	1	3	3	2	0	0	0	0	2	6	7	5	2	-1	-1	0	5	9	8	4	-1	-1	0	5	9	10	5	5	5	5	5	5	
72	0	0	2	3	2	1	0	0	-1	1	5	6	4	2	-1	-2	0	4	7	7	4	-1	-1	0	4	8	8	5	5	5	5	5	5	
76	0	0	2	3	2	1	0	-1	-1	1	4	5	4	2	-1	-2	-1	3	6	5	3	-1	-2	-1	3	6	7	4	4	4	4	4	4	
80	0	1	2	2	2	1	0	-1	-1	0	3	4	3	1	-1	-2	-1	3	6	5	3	-1	-2	-1	3	6	7	4	4	4	4	4	4	
DECEMBER																																		
18	0	-1	-2	-1	-1	-1	-1	1	0	-2	-3	-4	-3	-1	1	1	-2	-4	-4	-3	-1	1	2	0	-2	-2	-1	0	0	0	0	0	0	
20	0	-1	-2	-2	-3	-2	-2	0	0	-2	-4	-5	-4	-2	0	0	-1	-3	-4	-3	-1	1	2	0	-1	-1	0	0	0	0	0	0	0	
24	0	0	-2	-4	-6	-6	-4	0	0	-1	-4	-7	-7	-4	0	0	0	-2	-4	-4	-2	0	1	2	2	2	2							

N HEMISPHERE

(PRESSURE)/(ZONAL MEAN PRESSURE) - 1 (Z)

KN LAT=	LONGITUDE 180 DEG							LONGITUDE 150 W							LONGITUDE 120 W							LONGITUDE 90 W							BO DEG
	20	30	40	50	60	70	80	20	30	40	50	60	70	80	20	30	40	50	60	70	80	20	30	40	50	60	70	80	
JANUARY																													
18	1	1	1	2	4	3	1	0	1	1	3	4	3	1	0	0	1	1	1	0	0	0	0	-1	-2	-2	-1		
20	1	1	1	2	4	6	3	0	1	2	4	6	5	3	0	0	0	1	1	2	2	1	0	0	0	-1	-3	-3	-1
24	1	1	3	7	12	12	7	0	1	2	6	10	11	7	0	0	0	1	2	3	4	3	0	-1	-1	-2	-4	-4	-1
28	0	1	4	10	17	18	10	0	1	3	7	13	15	9	0	0	0	1	3	5	4	0	-1	-2	-4	-6	-5	-1	
32	0	1	4	12	20	21	12	0	0	2	7	14	16	10	0	-1	-2	0	2	5	4	0	-1	-3	-6	-7	-6	-2	
36	0	0	3	11	20	21	12	0	-1	0	5	13	15	9	0	-2	-3	-3	0	3	3	0	-2	-4	-7	-8	-7	-3	
40	0	-1	2	9	18	19	12	-1	-2	-2	3	10	12	8	-1	-2	-5	-4	-2	1	2	0	-2	-5	-8	-9	-7	-4	
44	-1	-1	0	6	15	17	11	-1	-3	-3	0	6	9	7	-1	-3	-6	-6	-3	-1	1	0	-1	-5	-8	-9	-8	-5	
48	-1	-2	-1	4	12	14	10	-1	-3	-4	-2	4	7	6	-1	-3	-6	-7	-5	-2	0	0	-1	-4	-8	-9	-8	-5	
52	-1	-2	-2	3	9	11	9	-1	-3	-5	-4	1	5	5	-1	-3	-6	-8	-6	-3	0	0	-1	-4	-8	-9	-8	-5	
56	-1	-2	-2	1	7	9	7	-1	-3	-5	-4	0	3	4	-1	-3	-6	-8	-6	-3	-1	0	-1	-4	-7	-8	-7	-5	
60	-1	-2	-2	0	5	7	6	-1	-3	-5	-5	-1	3	4	-1	-3	-6	-7	-6	-3	-1	0	0	-4	-6	-7	-6	-4	
64	-1	-2	-2	0	4	6	5	-1	-3	-5	-5	-1	2	3	0	-2	-5	-6	-5	-2	-1	0	0	-3	-5	-5	-5	-3	
68	-1	-2	-2	0	3	5	4	-1	-3	-4	-4	-1	3	2	0	-2	-5	-5	-3	-1	0	1	0	-3	-4	-3	-3	-2	
72	-1	-2	-2	0	3	5	4	-1	-3	-4	-3	0	3	2	0	-2	-5	-4	-2	0	0	1	0	-3	-3	-2	-2	-2	
76	-1	-2	-2	1	4	6	4	-1	-2	-4	-2	1	4	3	0	-2	-5	-3	-1	1	1	1	0	-3	-2	-1	-1	-1	
80	-1	-2	-2	2	5	6	4	-1	-2	-4	-1	3	5	3	0	-2	-5	-2	1	2	1	1	0	-3	-2	0	0	0	
FEBRUARY																													
18	1	1	1	2	3	3	2	1	1	1	3	4	3	1	0	0	1	1	2	1	0	-1	0	0	0	-1	-1	-1	
20	1	1	1	3	5	5	3	1	1	1	3	6	5	3	0	0	0	1	2	3	2	1	0	0	0	0	-1	-1	0
24	0	1	2	4	9	9	5	0	1	2	5	9	9	6	0	0	0	1	3	5	5	4	0	0	0	0	-1	0	1
28	0	1	3	7	12	12	7	0	1	3	7	12	12	7	0	0	0	1	3	5	7	5	0	-1	-1	-1	-2	0	2
32	0	1	3	8	14	14	8	0	0	2	7	12	13	8	0	0	0	2	5	7	5	0	-1	-1	-2	-2	0	1	
36	0	0	2	7	14	14	8	0	0	1	5	12	12	7	0	0	0	1	3	5	4	0	0	-1	-3	-4	-1	1	
40	0	0	1	6	12	12	8	0	0	1	4	8	10	6	0	-1	-1	0	2	4	3	0	-1	-2	-4	-4	-2	0	
44	0	0	0	5	11	10	7	0	0	0	3	7	6	4	0	0	0	-1	0	1	2	0	-1	-1	-4	-6	-3	0	
48	0	0	0	4	9	8	6	0	-1	-1	2	4	5	4	0	-1	-1	-1	-1	0	1	0	-1	-2	-5	-6	-4	-1	
52	0	-1	-1	3	7	7	6	0	-1	-1	1	3	3	3	0	-1	-1	-2	-2	-1	0	0	-1	-2	-5	-6	-4	-1	
56	0	-1	0	3	6	5	5	0	-1	-1	1	2	2	2	0	-1	-2	-2	-3	-2	0	0	-1	-3	-5	-6	-4	-1	
60	0	-1	-1	2	4	4	4	0	0	-1	0	1	1	2	0	-1	-1	-2	-3	-2	0	0	-1	-2	-5	-6	-4	-1	
64	0	0	-1	1	3	3	3	0	-1	0	0	1	0	1	0	-1	-1	-2	-3	-2	0	0	-1	-2	-4	-5	-3	-1	
68	0	0	-1	1	2	1	3	0	0	0	1	0	0	1	0	0	0	-1	-3	-1	0	0	-1	-1	-3	-4	-2	-1	
72	0	0	-1	0	2	1	2	1	0	0	1	1	0	0	0	0	0	0	-2	-1	0	0	-1	-1	-2	-3	-1	0	
76	0	0	0	1	1	0	2	1	1	1	1	1	0	1	0	0	0	0	-1	0	0	0	-1	-1	-2	-1	1	0	
80	1	0	-1	1	2	0	0	1	1	1	2	2	0	0	0	1	1	1	0	0	0	0	0	0	-1	-1	2	1	
MARCH																													
18	1	1	1	1	3	4	3	0	1	1	2	4	5	3	0	0	0	1	2	2	3	2	0	0	0	0	-1	0	1
20	1	1	1	2	4	6	4	0	1	2	3	6	6	4	0	0	0	1	2	3	4	3	0	0	0	0	0	1	1
24	0	1	2	4	7	8	6	0	1	2	5	8	10	6	0	0	1	3	6	7	5	0	0	0	1	2	2	2	
28	0	1	2	6	10	11	7	0	1	2	6	11	12	8	0	0	1	4	7	9	6	0	0	0	1	3	4	3	
32	0	0	2	6	11	12	7	0	0	2	6	11	12	8	0	0	0	3	7	9	6	0	-1	-1	0	2	4	3	
36	0	0	1	5	10	11	7	0	0	1	4	10	11	7	0	-1	-1	2	6	7	5	0	-1	-2	-1	1	2	2	
40	0	-1	0	4	8	9	5	0	-1	0	3	7	9	6	0	-1	-1	0	3	5	4	0	-1	-2	-3	-1	0	1	
44	0	-1	-1	2	6	7	4	0	-1	-1	1	5	6	4	0	-1	-2	-1	1	3	3	0	-1	-3	-4	-3	-1	0	
48	0	-1	-1	1	5	5	3	0	-1	-2	0	3	4	3	0	-1	-2	-2	0	1	2	0	-1	-3	-4	-4	-2	0	
52	0	-1	-1	0	3	4	2	0	-1	-2	-1	1	3	2	0	-1	-3	-3	-2	0	1	0	-1	-3	-5	-5	-3	-1	
56	0	-1	-2	-1	2	2	1	0	-1	-2	-2	0	1	2	0	-1	-3	-4	-3	-1	1	0	-1	-3	-5	-5	-3	-1	
60	0	-1	-2	-2	0	0	0	0	-1	-3	-3	-2	0	1	0	-1	-3	-4	-3	-2	0	0	-1	-3	-4	-4	-3	-1	
64	0	-1	-3	-2	-2	-1	-1	0	-1	-3	-3	-2	-1	0	0	-1	-3	-3	-3	-2	0	0	-1	-2	-3	-3	-2	0	
68	0	-1	-3	-3	-2	-2	-1	0	-1	-3	-3	-3	-1	0	0	-1	-2	-3	-2	-1	0	0	-1	-2	-2	-2	-2	0	
72	0	-1	-3	-3	-3	-2	-2	0	-1	-3	-3	-2	-1	0	0	-1	-2	-2	-2	-1	1	0	-1	-2	-2	-1	-1	1	
76	0	-1	-3	-3	-3	-2	-2	0	-1	-2	-2	-2	-1	0	1	0	-2	-2	-1	-1	1	1	0	-1	-1	-1	-1	1	
80	0	-1	-3	-3	-2	-2	-2	0	0	-2	-2	-1	-1	0	1	0	-2	-1	-1	0	1	1	0	-1	-1	-1	0	1	
APRIL																													
18	0	1	1	0	0	1	0	0	1	1	1	2	1	1	0	0	0	1	2	2	1	0	0	0	1	2	1	1	0
20	0	1	1	0	1	1	0	0	1	1	2	2	1	1	0	0	0	1	2	2	1	1	0	0	1	1	1	1	0
24	0	1	1	1	1	1	1	0	1	1	2	2	2	1	0	0	1	2	2	2	1	0	0	0	1	1	1	0	
28	0	0	1	2	2	1	1	0	1	1	2	2	2	1	0	1	1	1	2	2	1	0	0	0	0	1	1	1	
32	0	0	1	1	2	2	1	0	1	1	2	2	2	1	0	1	1	1	2	2	1	0	0	0	0	1	1	1	
36	0	0	0	1	2	2	1	1	1	0	1	2	2	1	0	1	0	0	1	1	1	0	0	0	0	0	0	0	
40	1	0	0	0	1	1	1	1	1	0	0	1	1	1	0	1	0	0	1	1	1	0	0	0	0	0	0	0	
44	1	0	0	0	1	1	1	1	1	0	0	1	1	1	0	1	0	0	1	1	1	0	0	0	0	0	0	0	
48	1	0	0	0	0	0	1	1	1	0	0	0	0	1	0	1	0	0	0	1	0	0	0	0	0	0	0	0	
52	1	0	0	0	0	0	1	1	1	0	0	0	0	1	1	1	0	0	0	1	0	0	0	0	0	0	0	0	
56	1	1	0	0	0	0	1	1	1	0	0	0	1	1	1	1	0	0	0	1	1	0	0	0	0	0	0	0	
60	1	1	0	0	0	0	1	1	1	0	0	0	1	1	1	1													

N HEMISPHERE

(PRESSURE)/(ZONAL MEAN PRESSURE) - 1 (%)

KN LAT= 20 30 40 50 60 70 80 20 30 40 50 60 70 80 20 30 40 50 60 70 80 20 30 40 50 60 70 80

JANUARY

18	0	0	0	-1	-3	-3	-1	0	0	1	0	-1	0	0	-1	-1	0	1	2	2	1	-1	-1	0	1	2	2	1
20	0	0	0	-2	-4	-4	-2	0	0	0	-1	-2	-2	-1	-1	-1	0	0	1	0	0	-1	-1	-1	0	0	0	
24	0	-1	-1	-4	-7	-7	-3	0	0	-1	-2	-5	-6	-4	0	0	-1	-1	-3	-4	-4	0	-1	-1	-2	-4	-5	
28	0	-1	-2	-5	-9	-9	-5	0	0	-1	-4	-7	-9	-6	0	0	-1	-3	-5	-7	-6	0	0	-1	-4	-7	-8	
32	0	-1	-3	-6	-10	-10	-6	0	0	-1	-4	-9	-10	-8	1	1	0	-3	-7	-9	-8	0	0	-1	-4	-8	-9	
36	0	0	-2	-6	-11	-11	-7	1	1	0	-4	-9	-11	-8	1	2	1	-2	-7	-10	-8	0	1	0	-3	-7	-9	
40	0	0	-2	-6	-10	-11	-7	1	2	1	-3	-9	-11	-8	1	2	3	-1	-7	-10	-8	0	1	1	-2	-6	-8	
44	1	1	-1	-5	-10	-11	-8	1	2	3	-2	-8	-10	-8	1	3	4	0	-6	-9	-7	0	1	2	0	-4	-6	
48	1	1	0	-5	-9	-10	-8	1	3	3	-1	-7	-9	-8	1	3	4	1	-4	-7	-6	0	1	3	1	-3	-5	
52	1	2	0	-4	-8	-9	-7	1	3	4	0	-5	-8	-7	1	3	5	2	-3	-6	-5	0	1	3	2	-2	-3	
56	1	2	0	-3	-7	-8	-7	1	3	4	1	-4	-7	-6	1	2	5	3	-2	-5	-4	0	1	3	2	-1	-2	
60	1	2	0	-2	-5	-7	-6	1	3	4	2	-3	-6	-5	1	2	5	3	-2	-4	-4	0	1	3	2	-1	-2	
64	1	2	0	-1	-3	-5	-5	1	3	4	2	-2	-5	-4	0	2	4	3	-2	-3	-3	0	1	3	1	-2	-2	
68	1	2	1	0	-2	-4	-3	1	3	4	2	-1	-4	-3	0	2	4	2	-2	-3	-3	0	1	3	1	-2	-2	
72	1	2	1	0	-1	-3	-2	1	2	4	2	-1	-3	-3	0	2	4	1	-2	-3	-3	0	1	3	0	-3	-3	
76	1	2	1	0	-1	-2	-2	1	3	4	1	-2	-3	-3	0	2	4	1	-3	-3	-3	0	1	3	-1	-4	-3	
80	1	2	1	0	-1	-2	-2	1	3	4	1	-2	-3	-3	1	2	5	0	-4	-4	-4	0	1	3	-1	-5	-4	

FEBRUARY

18	-1	0	0	-1	-2	-2	0	-1	0	1	1	0	0	1	0	0	1	2	2	1	1	0	-1	0	1	1	1
20	-1	0	0	-1	-2	-2	0	-1	0	1	0	-1	-1	0	0	0	0	1	1	0	0	0	-1	0	0	0	-1
24	0	-1	-1	-1	-3	-2	-1	-1	-1	-1	-1	-2	-2	-2	-1	-1	-1	-1	0	-2	-3	0	0	-1	-1	-2	-4
28	0	-1	-2	-3	-4	-3	-1	-1	0	-1	-2	-3	-4	-3	0	0	-1	-2	-2	-4	-5	0	0	-1	-2	-4	-6
32	0	-1	-2	-4	-5	-4	-1	0	0	-2	-4	-5	-6	-3	0	0	-1	-3	-4	-6	-5	0	0	-1	-3	-6	-7
36	0	-1	-2	-5	-7	-4	-1	0	-1	-2	-5	-6	-8	-4	0	0	-1	-4	-4	-7	-6	0	0	0	-3	-5	-8
40	0	0	-3	-5	-7	-5	-2	0	0	-1	-5	-7	-7	-4	0	0	-1	-4	-6	-7	-6	0	0	0	-2	-5	-7
44	0	-1	-2	-6	-8	-5	-2	0	0	-2	-5	-7	-7	-4	0	1	-1	-3	-5	-7	-6	0	1	1	0	-3	-6
48	0	0	-3	-6	-8	-6	-2	0	0	-2	-5	-7	-7	-4	0	1	0	-3	-5	-6	-6	0	1	2	0	-3	-5
52	0	-1	-2	-6	-8	-6	-2	0	0	-2	-5	-6	-6	-4	1	1	-1	-2	-4	-5	-5	0	1	2	1	-1	-4
56	0	-1	-3	-6	-7	-5	-2	0	0	-2	-5	-5	-5	-3	0	1	0	-2	-2	-4	-4	1	1	2	2	0	-2
60	0	-1	-3	-6	-6	-4	-2	1	-1	-3	-4	-3	-3	-2	1	1	-1	-1	-1	-3	-3	0	2	2	2	1	-1
64	-1	-1	-3	-5	-4	-2	-1	0	0	-2	-3	-2	-2	-2	0	1	0	0	1	-1	-3	1	1	3	3	2	-1
68	0	-2	-3	-4	-2	-1	-1	0	-1	-2	-2	0	0	0	0	0	0	1	2	0	-1	0	2	2	3	2	0
72	-1	-1	-2	-3	-2	1	0	0	-1	-2	-1	2	2	0	0	0	0	2	4	1	-1	1	2	2	3	3	0
76	-1	-1	-2	-2	0	2	1	0	-1	-1	0	3	3	1	0	0	1	2	4	2	0	0	1	3	3	2	0
80	0	-1	-1	-2	0	3	2	0	-1	-2	0	3	4	2	0	1	0	2	5	2	0	0	2	2	3	2	-1

MARCH

18	-1	0	0	-1	-1	-1	0	-1	-1	0	0	0	0	0	-1	-1	0	2	2	1	-1	0	-1	0	2	1	0
20	0	0	0	-1	-1	-1	0	-1	-1	0	0	0	-1	-1	-1	-1	0	1	1	0	-2	0	-1	0	0	-1	-2
24	0	0	-1	-1	-1	-1	0	0	-1	-1	-1	-2	-2	-2	0	0	-1	-1	-2	-4	-4	0	0	-1	-3	-5	-6
28	0	0	-1	-1	-1	-1	0	0	0	-1	-2	-3	-4	-3	0	0	-1	-3	-5	-6	-5	0	0	-1	-4	-8	-9
32	0	-1	-2	-2	-2	-1	-1	0	0	-1	-3	-5	-5	-3	0	0	-1	-4	-7	-7	-5	0	0	-1	-4	-8	-9
36	0	-1	-2	-3	-3	-2	-1	0	0	-1	-4	-6	-6	-3	0	1	0	-4	-7	-7	-5	0	1	0	-3	-7	-8
40	0	-1	-2	-4	-5	-4	-1	0	0	-1	-4	-6	-6	-3	0	1	0	-3	-6	-6	-4	0	1	2	-1	-4	-6
44	0	0	-2	-5	-6	-4	-2	0	1	-1	-4	-6	-6	-3	1	1	1	-2	-5	-5	-3	0	2	3	1	-2	-3
48	0	0	-2	-5	-6	-5	-2	1	1	-1	-4	-6	-5	-2	1	2	1	-1	-4	-4	-2	0	2	3	2	-1	-2
52	0	0	-2	-5	-6	-5	-2	1	1	-1	-4	-5	-5	-2	1	2	2	0	-3	-3	-1	0	2	3	3	1	0
56	1	0	-2	-5	-5	-4	-2	1	1	0	-3	-4	-3	-1	1	2	2	0	-1	-1	0	0	2	4	4	2	1
60	0	0	-2	-4	-4	-3	-1	1	1	0	-2	-3	-2	0	1	2	2	1	0	0	1	0	2	4	4	3	2
64	0	0	-1	-3	-3	-2	0	1	1	0	-1	-1	-1	0	1	2	2	2	1	2	2	0	2	4	4	3	3
68	0	0	-1	-2	-2	-1	0	0	1	0	0	0	1	1	1	2	3	2	2	3	2	0	2	4	4	4	2
72	0	0	-1	-1	-1	0	1	0	0	1	0	0	2	2	0	1	3	2	2	3	3	0	2	4	4	4	3
76	0	0	0	-1	-1	0	1	0	0	1	0	1	2	2	0	1	3	2	3	4	3	0	2	4	4	4	3
80	1	0	0	-1	0	0	1	0	0	1	0	1	2	2	0	1	3	2	3	4	3	0	1	4	4	4	2

APRIL

18	0	-1	0	1	1	0	0	-1	-1	-1	0	1	0	0	-1	-1	-1	0	1	0	0	0	-1	-1	0	0	0
20	0	0	0	0	1	0	0	0	-1	-1	0	0	0	0	0	-1	-1	0	0	0	0	0	-1	-1	0	0	0
24	0	0	0	0	0	0	0	0	0	-1	-1	0	0	0	0	0	-1	-1	-1	-1	-1	0	-1	-1	-1	-1	-1
28	0	0	0	0	0	0	0	0	0	0	-1	-1	-1	-1	0	0	0	-1	-1	-1	-1	0	0	0	-1	-2	-1
32	0	0	0	0	-1	0	0	0	0	0	-1	-1	-1	-1	0	0	0	-1	-2	-2	-1	0	0	0	-1	-2	-1
36	0	0	0	0	-1	-1	0	0	0	0	0	-1	-2	-1	0	0	0	0	-1	-2	-1	0	0	0	0	-1	-2
40	0	0	0	0	-1	-1	0	0	0	1	0	-1	-2	-1	0	0	1	0	-1	-2	-1	0	0	0	0	-1	-1
44	0	0	0	0	-1	-1	0	0	0	1	1	-1	-1	-1	0	0	1	1	-1	-2	-1	0	0	0	1	0	-1
48	0	0	1	0	0	-1	0	0	0	1	1	0	-1	-1	0	0	1	1	0	-1	-1	0	0	0	1	0	-1
52	0	0	1	1	0	-1	0	0	0	1	1	0	-1	-1	0	0	1	1	0	-1	-1	0	0	0	1	0	-1
56	0	0	1	1	0	0	0	0	0	1	1	0	-1	-1	0	0	1	1	0	-1	-1	0	0	0	0	0	-1
60	0	0	1	1	0	0	0	0	0	1	1	0	-1	-1	0	0	0	1	0	-1	-1	0	-1	0	0	0	-1
64	0	0	1	1	0	0	0	0	0	0	1	0	-1	-1	0	0	0	1	0	-1	-1	0	-1	0	0	0	-1
68	0	0	1	1	0	0	0	0	0	0	1	0	-1	-1	0	0	0	1	0	-1	-1	0	0	0	0	0	-1
72	0	0	1	1	0	0	0	0	0	0	1	0	-1	-1	-1	0	0	0	1	0	-1	-1	-1	0	0	0	-1
76	0	1	1	1	0	-1	0	0	0	0	1	0	-1	0	-1	0	0	0	1	0	-1	-1	-1	0	0	0	-1
80	0	1	1	1	0	-1	0	0	0	1	1	0	-1	0	-1	0	0	0	1	0	-1	-1	-1	0	0	0	-1

N HEMISPHERE

(PRESSURE)/(ZONAL MEAN PRESSURE) - 1 (Z)

KN LAT=	LONGITUDE 60 E								LONGITUDE 90 E								LONGITUDE 120 E								LONGITUDE 150 E								NODES
	20	30	40	50	60	70	80	20	30	40	50	60	70	80	20	30	40	50	60	70	80	20	30	40	50	60	70	80					
JANUARY																																	
18	0	-1	-1	-1	-1	0	0	0	0	-2	-3	-3	-3	-1	1	0	-1	-2	-3	-2	-1	1	1	0	0	0	0	0	0	0	0		
20	0	-1	-2	-2	-2	-2	-1	0	0	-2	-3	-4	-4	-2	1	0	-1	-2	-2	-2	-1	1	1	1	1	2	2	1	2	2	1		
24	0	-1	-2	-4	-6	-6	-4	0	0	-2	-4	-6	-6	-3	0	0	0	0	0	0	0	0	1	2	4	7	8	4	7	8	4		
28	0	0	-2	-5	-8	-9	-5	0	0	-1	-3	-6	-6	-3	0	0	1	2	2	2	2	0	1	3	8	12	13	7	12	13	7		
32	0	0	-2	-5	-8	-9	-5	0	0	-1	-3	-6	-6	-2	0	0	2	3	5	5	4	0	1	4	10	16	16	9	16	16	9		
36	0	0	-1	-4	-7	-7	-4	0	0	0	-1	-2	-2	0	0	0	2	5	7	7	5	0	1	4	11	17	18	10	17	18	10		
40	0	0	0	-2	-5	-5	-3	0	0	0	0	0	1	1	0	0	2	6	9	9	6	0	0	3	10	17	18	11	17	18	11		
44	0	0	1	0	-2	-3	-2	0	0	1	2	2	3	2	0	0	2	6	10	10	7	0	0	2	9	16	17	11	16	17	11		
48	0	0	1	1	-1	-1	-1	0	0	1	3	4	4	3	0	0	2	6	10	10	7	0	0	2	7	14	15	10	14	15	10		
52	0	0	2	1	0	0	0	0	0	1	3	4	4	3	0	0	2	6	10	10	6	0	0	1	6	12	13	9	12	13	9		
56	0	0	2	2	1	0	0	0	0	1	3	5	4	3	0	1	2	6	9	9	5	0	0	1	6	11	11	8	11	11	8		
60	0	0	2	1	1	0	0	0	1	1	3	4	4	2	0	1	2	5	8	7	5	0	0	1	5	9	9	6	9	9	6		
64	0	0	1	1	0	0	0	0	0	1	2	3	2	2	0	0	1	4	7	5	4	-1	-1	1	4	7	7	4	7	7	4		
68	0	0	1	0	-1	-1	-1	0	0	1	2	2	1	1	0	0	1	4	6	4	3	-1	-1	0	3	6	6	4	5	6	4		
72	0	0	1	0	-2	-2	-2	0	0	0	1	1	0	1	0	0	1	3	5	3	3	-1	-1	0	3	5	5	4	5	5	4		
76	0	0	1	-1	-3	-3	-2	0	0	0	0	0	-1	0	0	0	0	2	4	2	3	-1	-1	0	3	5	5	4	5	5	4		
80	0	0	1	-1	-4	-4	-3	0	0	0	0	-1	-2	0	0	-1	0	2	3	2	3	-1	-1	0	3	5	5	4	5	5	4		
FEBRUARY																																	
18	0	-1	-1	-1	-2	-2	-2	0	0	-2	-4	-4	-3	-2	0	0	-1	-3	-4	-3	-1	1	1	0	-1	0	1	1	1	1	1		
20	0	-1	-1	-2	-3	-3	-2	0	0	-2	-4	-5	-5	-3	0	0	-1	-3	-4	-3	-1	1	1	0	0	0	1	1	1	1	1		
24	0	0	-1	-3	-6	-7	-4	1	0	-1	-4	-8	-7	-4	0	0	-1	-2	-4	-3	-1	0	1	1	1	3	4	2	3	4	2		
28	0	-1	-1	-4	-8	-9	-6	0	-1	-1	-4	-8	-8	-4	0	0	0	-1	-3	-2	0	0	1	2	3	6	6	4	6	6	4		
32	0	0	-1	-4	-8	-8	-6	0	0	0	-3	-6	-6	-4	0	0	1	1	0	-1	1	0	1	2	5	8	7	4	7	4	7		
36	0	0	0	-2	-6	-8	-6	0	0	1	0	-5	-4	-3	0	0	1	2	1	2	3	0	0	2	6	10	9	7	7	6	9		
40	0	0	1	0	-4	-4	-5	0	0	1	1	-1	-2	-1	0	0	1	4	4	4	4	0	0	1	6	10	9	7	7	6	9		
44	0	1	2	2	-2	-4	-4	0	0	3	3	1	1	0	0	0	2	4	5	6	4	0	0	0	5	9	10	7	7	6	9		
48	0	1	2	3	0	-2	-4	0	0	2	4	3	2	0	0	0	1	4	7	7	5	0	0	1	4	9	9	7	7	6	9		
52	0	1	3	3	1	-1	-3	0	1	3	4	3	3	1	0	0	2	4	6	7	5	0	-1	0	4	8	8	7	7	6	9		
56	0	1	3	4	2	0	-3	0	1	3	4	4	3	1	0	0	2	4	6	6	4	0	0	1	4	7	7	6	7	6	9		
60	0	2	4	4	2	0	-2	0	1	4	4	3	3	0	0	0	2	3	4	5	4	0	-1	-1	2	5	6	5	5	4	5		
64	1	2	4	4	2	0	-2	0	1	3	3	1	1	0	0	0	1	2	2	3	3	0	0	0	1	3	4	4	4	4	5		
68	0	2	4	3	1	0	-2	0	1	3	2	0	0	-1	0	0	0	0	0	1	2	0	-1	-1	0	2	2	4	4	4	5		
72	0	2	3	3	0	-1	-2	0	1	2	0	-3	-1	-1	-1	-1	0	-1	-2	-2	0	1	0	-1	-2	-1	0	1	2	2	3		
76	0	1	2	2	-2	-2	-2	0	0	1	-1	-4	-3	-2	-1	-1	-1	-1	-2	-3	-2	0	0	-1	-1	-1	-1	-1	1	2	3		
80	0	1	3	1	-2	-3	-2	-1	0	1	-2	-6	-4	-2	-1	-2	-1	-3	-5	-3	0	0	-1	-2	-2	-1	-1	-1	1	1	2		
MARCH																																	
18	0	0	0	0	-2	-3	-3	0	0	-1	-3	-5	-5	-3	1	0	-1	-3	-4	-4	-2	1	1	-1	-2	-1	0	1	1	1	1		
20	0	-1	-1	-1	-4	-5	-4	0	0	-1	-3	-5	-6	-3	1	0	-1	-3	-4	-3	-2	1	1	0	-1	0	1	1	1	1	1		
24	0	0	-1	-4	-7	-8	-5	0	0	-1	-4	-7	-7	-4	0	0	-1	-2	-3	-3	-1	0	1	1	1	3	3	3	3	3	3		
28	0	0	-1	-5	-9	-10	-6	0	0	-1	-4	-7	-7	-5	0	0	0	-1	-2	-2	-1	0	0	2	3	5	5	3	5	5	3		
32	0	0	0	-4	-8	-9	-6	0	0	0	-2	-5	-6	-4	0	0	1	1	0	-1	-1	0	0	2	4	6	6	4	6	6	4		
36	0	1	1	-2	-6	-7	-5	0	0	1	0	-3	-4	-3	0	0	1	2	2	1	0	0	0	1	4	7	7	4	7	4	7		
40	0	1	2	1	-3	-4	-4	0	0	2	2	0	-2	-2	0	0	1	3	3	2	0	0	-1	1	4	6	6	4	6	4	6		
44	0	1	3	3	0	-2	-2	0	1	2	3	2	0	-1	0	0	1	3	4	3	0	0	-1	0	4	6	6	5	2	5	2		
48	0	1	4	4	2	0	-1	0	1	3	4	3	1	-1	0	0	1	4	4	3	0	0	-1	0	2	5	5	2	5	2	5		
52	0	2	4	5	3	1	0	0	1	3	5	4	2	0	0	0	1	4	5	3	0	0	-1	-1	2	4	4	1	4	1	4		
56	0	2	4	5	4	2	0	0	0	3	5	5	3	0	0	0	1	3	4	2	0	0	-1	-1	1	3	2	0	2	0	2		
60	0	2	4	6	5	3	1	0	1	3	5	5	2	0	0	0	1	3	3	1	-1	0	-1	-1	0	1	1	1	1	1	1		
64	0	2	4	5	5	3	1	0	1	3	4	4	2	-1	0	0	0	2	2	0	-2	0	-1	-2	-1	0	-1	-2	0	-1	-2		
68	0	2	4	5	4	3	1	0	1	2	3	3	1	-1	-1	0	0	1	1	-1	-3	0	-1	-2	-1	-2	-2	-3	-3	-3			
72	0	1	4	4	4	3	1	0	0	2	3	2	0	-1	-1	0	-1	0	-1	-2	-3	-1	-1	-2	-2	-2	-3	-3	-3	-3			
76	0	1	4	4	3	2	1	-1	0	1	2	1	-1	-2	-1	-1	-1	-1	-2	-3	-3	-1	-1	-3	-2	-3	-3	-3	-3	-3			
80	0	1	3	4	3	2	1	-1	0	1	2	0	-1	-2	-1	-1	-1	-2	-1	-2	-4	-4	-1	-1	-3	-3	-3	-4	-4	-4	-4		
APRIL																																	
18	0	0	0	-1	-1	-1	0	0	0	0	-1	-2	-2	-1	1	1	0	-2	-2	-2	0	0	1	0	-1	-1	-1	0	0	0	0		
20	0	0	0	-1	-1	-1	0	0	0	0	-1	-2	-2	-1	0	0	0	-2	-2	-1	0	0	1	0	-1	-1	0	0	0	0	0		
24	0	0	-1	-1	-2	-1	-1	0	0	-1	-1	-2	-1	-1	0	0	0	-1	-1	-1	0	0	0	0	0	0	0	0	0	0	0		
28	0	0	0	-1	-2	-1	-1	0	0	-1	-1	-1	-1	0	0	-1	-1	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
32	0	0	0	-1	-1	-1	-1	0	-1	-1	-1	-1	0	0	0	-1	-1	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
36	0	0	0	-1	-1	-1	-1	0	-1	-1	-1	0	0	0	0	-1	-1	0	0	1	0	0	0	0	0	0	0	0	0	0	0		
40	0	0	0	0	0	-1	-1	0	-1	-1	0	0	0	0	0	-1	-1	0	0	1	1	0	0	-1	0	1	1	1	1	1	1		
44	0	0	0																														

S HEMISPHERE

(DENSITY)/(ZONAL MEAN DENSITY) - 1 (2)

KN LAT	LONGITUDE 180 DEG							LONGITUDE 150 W							LONGITUDE 120 W							LONGITUDE 90 W						
	-80	-70	-60	-50	-40	-30	-20	-80	-70	-60	-50	-40	-30	-20	-80	-70	-60	-50	-40	-30	-20	-80	-70	-60	-50	-40	-30	-20

APRIL

18	0	1	2	2	1	0	1	1	1	2	2	1	0	0	1	2	2	2	1	0	0	1	2	2	1	0	0	0	0	0
20	0	1	2	2	1	0	1	1	2	3	2	1	0	0	1	2	2	2	1	0	0	1	2	2	1	0	0	0	0	0
24	1	2	2	2	1	0	1	2	2	3	2	1	1	0	2	2	3	2	1	0	0	1	2	2	1	0	0	0	0	0
28	2	3	3	2	1	1	1	3	3	3	2	1	1	0	2	3	2	2	1	0	0	1	2	1	0	0	0	0	0	0
32	3	3	3	2	1	0	0	3	4	3	2	1	1	0	2	3	2	1	0	0	0	1	1	0	0	0	0	0	0	0
36	3	3	2	1	0	0	0	3	3	2	0	0	0	1	2	2	1	0	0	0	0	1	0	-1	-1	0	0	0	0	0
40	2	2	1	0	0	0	0	2	2	0	-1	0	0	1	2	1	-1	-1	-1	0	0	1	0	-2	-2	-1	0	0	0	0
44	1	1	0	-1	-1	0	0	1	1	-1	-1	-1	0	1	1	0	-2	-2	-1	0	1	1	-1	-2	-2	0	0	0	0	0
48	1	0	0	-1	-1	0	0	1	0	-1	-2	-1	0	1	1	-1	-2	-2	-1	0	1	0	-1	-2	-2	0	0	0	0	0
52	1	0	-1	-1	-1	0	1	1	-1	-2	-2	-1	0	1	0	-1	-2	-2	-1	0	1	0	-1	-2	-2	-1	0	0	0	0
56	0	-1	-1	-2	-1	0	1	0	-1	-2	-2	-1	0	1	0	-2	-3	-3	-1	0	1	0	-2	-2	-2	-1	0	0	0	0
60	0	-1	-2	-2	-1	0	1	0	-2	-3	-3	-1	0	1	-1	-2	-3	-3	-1	0	1	-1	-2	-2	-2	-1	0	1	0	1
64	-1	-2	-3	-3	-1	0	1	-1	-3	-3	-3	-1	0	1	-1	-3	-3	-3	-1	0	1	-1	-2	-2	-1	0	1	1	0	1
68	-1	-2	-4	-3	-2	0	1	-1	-3	-4	-3	-1	0	1	-1	-3	-3	-2	0	1	1	-1	-2	-1	-1	0	1	1	0	1
72	-2	-3	-4	-3	-1	0	1	-2	-3	-4	-2	0	1	1	-1	-3	-3	-2	0	1	1	0	-1	-1	0	1	1	1	1	1
76	-2	-3	-4	-3	-1	0	1	-2	-3	-3	-2	0	1	1	-1	-2	-2	-1	1	1	1	0	-1	-1	0	1	1	1	1	1
80	-2	-3	-4	-3	-1	1	1	-2	-2	-3	-2	0	1	1	-1	-2	-2	-1	1	1	1	1	-1	0	0	1	1	1	1	1

MAY

18	0	0	0	0	0	0	0	0	1	1	1	0	1	0	1	2	2	1	1	0	0	1	2	2	1	1	0	0	0	0
20	0	0	0	0	0	0	0	1	1	1	1	0	1	0	1	2	2	1	1	0	0	1	2	2	1	1	0	0	0	0
24	1	1	1	1	0	1	0	2	2	2	1	1	1	0	2	2	2	1	1	0	0	1	2	1	1	0	0	0	0	0
28	2	3	3	1	1	1	0	3	3	3	1	1	1	0	2	2	2	1	0	0	0	1	1	0	0	0	0	0	0	0
32	3	4	4	2	1	0	0	3	3	3	2	0	0	0	2	2	1	0	0	0	0	0	-1	-2	-2	-1	0	0	0	0
36	3	4	5	3	1	0	0	2	3	2	1	0	0	0	1	0	-1	-1	-1	0	0	0	-2	-4	-3	-2	0	0	0	0
40	2	3	4	2	0	0	0	1	2	1	0	-1	-1	0	0	-1	-2	-2	-1	-1	0	-1	-3	-4	-3	-2	0	0	0	0
44	2	3	3	1	0	-1	-1	1	1	0	-1	-1	-1	0	0	-1	-2	-2	-2	-1	0	-1	-3	-4	-3	-1	0	1	0	1
48	1	2	2	1	-1	-1	-1	0	0	0	-1	-2	-1	-1	0	-2	-3	-3	-2	-1	0	-1	-3	-3	-3	-1	0	1	0	1
52	1	2	1	0	-1	-1	-1	0	0	-1	-2	-2	-1	-1	-1	-2	-3	-3	-2	-1	0	-1	-3	-3	-3	-1	0	1	0	1
56	1	1	1	-1	-2	-2	-1	0	-1	-2	-2	-2	-2	-1	-1	-2	-3	-3	-2	-1	0	-2	-3	-4	-3	-1	0	1	0	1
60	1	0	0	-1	-2	-2	-2	-1	-1	-2	-3	-3	-3	-2	-1	-2	-3	-4	-3	-2	-1	0	-2	-3	-4	-2	0	0	1	1
64	0	0	-1	-2	-2	-2	-1	-1	-2	-3	-3	-2	-2	-1	-1	-2	-4	-4	-3	-1	-1	0	-2	-4	-3	-2	0	1	1	1
68	0	-1	-1	-2	-2	-2	-1	-2	-3	-3	-3	-2	-1	-1	-2	-4	-4	-3	-1	0	0	-3	-4	-3	-1	1	1	1	1	1
72	0	-1	-2	-2	-2	-1	-1	-2	-3	-3	-3	-2	-1	0	-2	-4	-4	-2	-1	0	0	-3	-4	-3	-1	1	1	1	1	1
76	0	-1	-2	-2	-2	-1	-1	-2	-3	-3	-3	-1	0	0	-2	-4	-4	-2	0	1	1	-3	-3	-3	0	1	1	1	1	1
80	0	-1	-1	-2	-2	0	-1	-1	-3	-3	-2	-1	0	0	-2	-3	-3	-2	0	1	1	-2	-3	-2	0	2	1	1	1	1

JUNE

18	0	1	2	1	1	1	1	1	2	2	2	1	1	0	2	2	2	1	1	1	0	2	2	2	1	0	0	0	-1	0	
20	0	1	2	1	1	1	1	1	1	2	2	2	1	1	0	2	3	2	2	1	1	0	2	2	2	1	0	0	0	-1	0
24	2	2	3	2	1	1	1	1	2	3	3	2	1	1	0	3	4	3	2	1	0	0	2	3	2	1	0	0	0	0	0
28	3	3	4	2	1	1	0	3	4	4	2	1	1	0	3	4	3	1	1	0	0	2	2	1	0	0	0	0	0	0	0
32	2	4	4	2	1	1	0	3	4	4	2	1	0	0	3	3	3	1	0	0	0	1	1	0	0	-1	0	0	0	0	0
36	2	3	3	2	1	0	0	2	4	3	1	0	0	0	2	2	2	1	0	0	0	1	0	0	-1	-1	0	0	0	0	0
40	2	3	2	1	0	0	0	2	3	2	1	0	0	1	2	2	1	0	-1	0	0	1	0	0	-1	-1	0	0	0	0	0
44	1	2	2	0	0	0	1	2	2	2	1	0	0	1	2	2	1	0	-1	0	0	1	0	0	-1	-1	-1	0	0	0	0
48	1	2	1	0	0	0	1	1	2	1	0	0	1	1	1	1	0	0	0	0	0	1	0	-1	-1	-1	-1	0	0	0	0
52	1	2	1	0	0	0	0	1	2	1	0	0	0	1	1	1	0	0	0	0	0	0	-1	-1	-1	-1	-1	0	0	0	0
56	1	1	0	-1	-1	0	0	1	1	0	0	0	0	0	1	0	-1	0	0	0	0	0	-1	-1	0	-1	0	0	0	0	0
60	0	0	-1	-2	-1	0	0	0	0	-1	-1	0	1	1	0	0	-1	0	1	1	0	1	-1	-1	0	0	0	0	0	0	0
64	-1	-1	-2	-2	-1	1	1	0	-1	-1	-1	1	1	1	0	-1	-1	0	1	1	1	1	-1	0	0	0	0	0	0	0	0
68	-1	-2	-2	-2	0	2	2	-1	-1	-1	-1	1	3	2	0	-1	-1	0	2	2	1	1	0	0	1	1	0	0	-1	0	-1
72	-1	-2	-2	-2	0	3	3	-1	-2	-2	-1	2	4	3	1	-1	-1	0	2	2	1	2	0	0	1	1	-1	-1	0	0	-1
76	-2	-2	-3	-2	1	4	4	-1	-1	-1	0	2	4	3	1	-1	0	1	2	2	1	2	0	1	1	1	-1	-2	0	0	-2
80	-1	-2	-2	-2	1	5	4	0	-1	-1	0	3	4	3	1	0	0	1	2	2	1	2	1	1	1	0	-1	-2	0	0	-2

JULY

18	-2	-1	0	1	-1	0	0	-1	0	2	2	0	0	0	0	2	3	2	1	1	0	1	3	4	2	1	0	0	0	0	0	
20	-2	-1	1	2	0	0	0	-1	1	2	2	1	1	0	1	2	3	2	1	1	1	0	2	3	4	2	1	0	0	0	0	
24	1	2	3	3	1	1	0	2	4	4	3	1	1	0	3	4	4	3	1	1	0	2	4	4	1	1	0	0	0	0	0	
28	2	4	5	5	2	1	0	3	5	4	4	2	1	1	3	4	3	2	1	0	0	2	3	3	0	0	0	0	0	0	0	0
32	2	3	4	5	3	1	0	2	3	2	2	1	1	0	2	2	2	0	0	0	0	1	1	1	-1	-1	-1	0	0	0	0	
36	1	2	1	1	1	1	0	1	2	-1	-1	-1	0	0	1	1	0	-2	-2	-1	0	0	0	0	-2	-2	-1	0	0	0	0	
40	0	0	-1	-2	-2	-1	-1	0	0	-3	-4	-4	-2	0	0	-1	-2	-4	-3	-1	0	0	-1	-1	-3	-2	-1	0	0	0	0	
44	0	-1	-3	-3	-5	-2	-1	0	-2	-4	-6	-6	-2	-1	-1	-2	-3	-4	-4	-1	0	-1	-2	-1	-2	-1	0	1	0	0	0	
48	0	-2	-4	-6	-6	-3	-1	-1	-2	-5	-6	-6	-3	-1	-1	-2	-3	-5	-3	-1	0	-1	-2	-1	-2	-1	0	1	0	0	0	
52	0	-2	-5	-6	-6	-3	-2	-1	-3	-5	-7	-6	-3	-1	-1																	

S HEMISPHERE

(DENSITY)/(ZONAL MEAN DENSITY) - 1 (%)

KN LAT= -80 -70 -60 -50 -40 -30 -20 LONGITUDE 60 W LONGITUDE 30 W LONGITUDE 0 DEG LONGITUDE 30 E LONGITUDE 60 E

APRIL

18	1	1	1	0	0	0	0	1	1	0	0	-1	0	0	0	0	-1	-1	-2	-2	0	0	0	0
20	1	1	1	0	0	0	0	0	1	0	-1	-1	0	0	0	0	0	-1	-1	-2	-2	-1	0	0
24	1	1	0	0	0	0	0	0	0	-1	-1	-1	-1	-1	0	-1	-1	-2	-2	-1	-1	0	0	
28	0	0	0	-1	-1	0	0	-1	-1	-1	-1	-1	-1	0	-2	-2	-2	-1	-1	-1	-1	0	0	
32	0	-1	-1	-1	-1	0	0	-1	-2	-2	-1	-1	-1	0	-2	-3	-2	-1	-1	-1	0	0	0	
36	-1	-1	-2	-1	-1	0	0	-2	-2	-2	-1	0	-1	0	-2	-2	-1	0	0	0	0	0	0	
40	0	-1	-2	-1	0	0	0	-1	-1	-1	0	0	0	0	-1	-1	0	1	1	0	0	0	0	
44	0	-1	-1	-1	0	0	0	-1	0	0	1	1	0	0	-1	0	1	2	1	0	0	0	0	
48	0	-1	-1	0	0	0	0	0	0	1	1	1	0	0	0	1	2	2	1	0	0	0	0	
52	0	-1	-1	0	0	0	0	0	0	1	2	1	0	0	0	1	2	2	2	0	-1	0	-1	
56	-1	-1	-1	0	0	0	0	0	0	1	2	1	0	0	0	1	2	3	2	0	-1	0	-1	
60	-1	-1	-1	0	0	0	0	0	1	2	2	1	0	0	0	2	3	3	2	0	-1	1	2	3
64	0	0	0	1	1	1	0	0	2	2	3	1	0	0	0	3	4	4	2	0	-1	1	3	4
68	0	0	1	1	1	1	1	0	2	3	3	2	1	0	1	4	5	4	2	0	-1	1	3	4
72	0	1	2	2	1	1	1	1	3	4	4	2	1	0	1	4	5	5	2	0	-1	1	4	5
76	1	1	2	2	1	1	1	1	3	5	4	2	0	0	1	5	4	5	2	0	-1	1	4	5
80	1	1	2	2	1	1	1	1	4	5	4	2	0	0	1	5	4	5	2	0	-1	1	4	5

MAY

18	0	1	1	1	0	-1	-1	-1	0	0	0	0	-1	-1	-1	-1	0	0	0	0	0	0	0
20	0	1	1	1	0	-1	-1	-1	-1	0	0	0	-1	-1	-1	-1	0	0	0	0	0	0	0
24	0	0	0	0	0	-1	-1	-2	-2	-2	-1	0	-1	-1	-2	-3	-2	-1	0	0	0	0	0
28	-1	-2	-2	-1	-1	-1	0	-2	-4	-3	-2	-1	-1	0	-3	-4	-3	-1	0	0	0	0	0
32	-1	-3	-4	-3	-1	-1	0	-3	-5	-5	-3	-1	0	0	-3	-5	-4	-2	0	0	0	0	0
36	-2	-4	-5	-4	-1	0	0	-3	-5	-6	-3	-1	0	0	-3	-4	-4	-2	0	0	0	0	0
40	-2	-4	-5	-3	-1	0	1	-2	-4	-5	-2	0	1	1	-2	-3	-3	-1	1	1	0	0	0
44	-2	-3	-4	-2	0	1	1	-2	-3	-3	-1	1	1	1	-2	-2	-2	0	1	1	1	0	0
48	-2	-3	-3	-2	0	1	1	-2	-2	-2	0	1	1	1	-2	-2	-1	0	1	1	1	0	0
52	-2	-3	-3	-1	1	1	1	-2	-2	-1	0	1	1	1	-2	-1	-1	0	1	1	1	1	0
56	-2	-3	-3	-1	1	2	1	-2	-2	-1	0	1	2	1	-1	-1	0	1	1	1	1	1	1
60	-2	-3	-2	-1	1	2	1	-2	-1	-1	1	2	2	1	-1	0	1	2	1	1	1	0	1
64	-2	-3	-2	0	2	2	1	-2	-1	0	2	2	2	1	-1	1	2	2	1	1	1	1	0
68	-3	-2	-1	1	2	1	1	-2	-1	1	2	2	1	1	-1	1	2	3	1	0	0	1	3
72	-3	-2	-1	1	2	1	1	-2	0	2	3	2	1	0	-1	2	3	3	1	0	0	1	3
76	-2	-2	0	2	2	1	1	-2	0	2	3	2	0	0	0	2	3	3	1	-1	-1	1	3
80	-2	-2	0	2	2	1	1	-2	0	2	3	2	0	0	0	1	3	3	0	-1	-1	1	2

JUNE

18	1	1	1	0	-1	-1	-1	-1	0	0	0	-1	-1	-1	-2	-2	-1	0	0	0	0	0	0
20	1	1	1	0	-1	-1	-1	-1	-1	0	0	-1	-1	-1	-2	-2	-1	-1	0	0	0	0	0
24	1	1	0	-1	-1	-1	-1	-1	-1	-2	-1	-1	-1	-1	-2	-3	-2	-1	-1	0	0	0	0
28	0	-1	-1	-1	-1	-1	0	-2	-3	-3	-2	-2	-1	0	-3	-4	-4	-2	-1	-1	0	0	0
32	0	-1	-2	-2	-1	-1	0	-2	-3	-3	-3	-2	-1	0	-3	-4	-4	-3	-1	-1	0	0	0
36	0	-2	-2	-2	-1	0	0	-1	-3	-3	-3	-1	0	0	-2	-3	-3	-2	-1	0	0	0	0
40	0	-1	-2	-2	-1	0	0	-1	-2	-2	-1	0	0	0	-2	-2	-2	-1	1	1	0	0	0
44	0	-1	-1	-1	-1	0	0	-1	-2	-1	0	0	0	0	-2	-2	-1	1	2	1	0	0	0
48	0	-1	-1	-1	-1	-1	0	-1	-2	-1	0	1	0	0	-2	-1	0	1	2	1	1	0	0
52	0	-1	-1	-1	-1	0	0	-1	-1	0	0	1	1	0	-1	-1	0	2	2	2	1	0	0
56	0	-1	0	0	-1	0	0	-1	-1	1	1	1	1	0	-1	0	1	2	2	2	1	0	0
60	0	-1	0	1	0	0	0	0	0	1	2	1	0	0	-1	1	2	3	2	1	1	0	0
64	1	0	1	1	0	-1	-1	0	1	2	2	0	-1	-1	0	1	3	3	1	0	0	-1	2
68	1	0	1	1	0	-2	-2	1	1	3	2	0	-1	-2	0	2	3	3	1	0	-1	-1	2
72	2	1	2	2	0	-2	-3	1	2	3	3	0	-2	-2	0	2	4	3	1	-1	-1	0	2
76	2	1	2	2	0	-3	-3	1	2	3	3	0	-3	-3	0	3	4	4	1	-2	-2	-1	2
80	2	1	2	2	0	-3	-3	1	2	4	3	0	-3	-3	0	2	4	4	1	-2	-2	-1	2

JULY

18	1	2	3	1	1	0	-1	0	1	1	0	0	0	-1	0	-1	-1	0	0	0	-1	0	-1
20	1	3	3	1	1	0	-1	0	1	1	0	0	-1	-1	0	-1	-1	-1	0	0	-1	0	0
24	1	2	3	0	0	-1	-1	0	-1	-1	-2	-1	-1	-1	-2	-4	-4	-3	-1	0	-1	0	0
28	0	0	1	-2	-1	-1	0	-1	-3	-3	-4	-2	-1	-1	-2	-5	-7	-5	-2	-1	-1	-2	-5
32	0	-1	-1	-3	-2	-1	0	-1	-3	-4	-5	-2	-1	0	-1	-4	-6	-6	-3	-1	0	-1	-4
36	0	-1	-1	-3	-2	-1	0	-1	-2	-3	-4	-2	0	0	-1	-3	-5	-5	-2	0	0	-1	-2
40	-1	-2	-1	-2	-1	0	1	-1	-2	-3	-1	0	0	0	0	-1	-3	-2	-1	0	0	1	0
44	-1	-2	-1	-1	1	1	1	0	-1	-2	-1	1	1	1	0	0	-1	0	1	1	0	1	1
48	-1	-2	0	-1	1	1	1	-1	-1	-1	0	2	1	1	0	0	0	1	2	2	0	1	2
52	-1	-2	-1	-1	1	1	1	-1	-1	0	1	2	2	1	0	1	1	2	3	2	1	1	3
56	-2	-2	0	0	2	2	1	-1	0	1	1	3	2	1	1	2	2	3	3	2	1	2	3
60	-2	-2	0	1	3	2	1	-1	0	2	3	4	2	1	1	2	3	4	4	3	1	2	4
64	-2	-1	2	2	4	3	1	0	1	3	3	4	3	1	1	3	3	4	4	2	1	3	4
68	-1	-1	2	3	4	3	1	0	1	3	4	4	2	0	2	3	3	4	3	1	0	3	4
72	-1	0	3	4	5	3	1	1	1	4	4	4	2	0	2	3	3	3	2	1	-1	3	4
76	-1	0	4	5	5	3	1	1	2	4	4	4	1	-1	2	3	3	2	1	0	-1	4	4
80	-1	0	4	5	5	2	1	1	1	3	4	4	1	0	3	2	2	1	1	0	-1	3	4

S HEMISPHERE

(DENSITY)/(ZONAL MEAN DENSITY) - 1 (X)

KN LAT= LONGITUDE 60 E LONGITUDE 90 E LONGITUDE 120 E LONGITUDE 150 E
-80 -70 -60 -50 -40 -30 -20 -80 -70 -60 -50 -40 -30 -20 -80 -70 -60 -50 -40 -30 -20 -80 -70 -60 -50 -40 -30 -20

APRIL

18	-1	-2	-3	-2	-1	0	0	-1	-2	-2	-2	-1	0	0	-1	-2	-1	-1	0	0	0	-1	0	0	0	0	0	1
20	-1	-2	-3	-2	0	0	0	-1	-2	-2	-2	-1	0	0	-1	-1	-1	-1	0	0	0	-1	0	0	0	0	0	1
24	-2	-3	-3	-2	0	0	0	-2	-2	-2	-1	0	0	0	-1	-1	-1	-1	0	0	0	0	0	1	1	0	0	0
28	-2	-3	-2	-1	0	0	0	-2	-2	-2	-1	0	0	0	-1	-1	0	0	0	0	0	1	1	1	1	0	0	0
32	-2	-2	-1	-1	0	0	0	-2	-2	-1	0	0	0	0	0	0	0	0	0	0	0	1	2	2	1	0	0	0
36	-2	-2	0	0	0	0	0	-1	-1	0	0	0	0	0	0	0	1	1	0	0	0	1	2	1	1	0	0	0
40	-1	-1	1	1	1	0	0	-1	0	1	1	0	0	0	0	0	1	0	0	0	0	1	1	1	0	0	0	0
44	-1	0	1	1	1	0	0	-1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	-1	0	0
48	-1	0	1	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	-1	0	0	0	0	-1	-1	0	0	0
52	0	1	2	1	0	0	0	0	0	1	0	0	0	0	0	0	1	0	-1	0	0	0	0	0	-1	-1	0	0
56	0	1	2	2	1	0	-1	0	1	1	1	0	0	0	0	1	1	0	0	0	0	0	0	0	-1	-1	0	0
60	1	2	3	2	1	0	-1	1	1	1	1	0	0	0	0	0	0	0	-1	0	0	0	0	-1	-1	0	0	0
64	1	2	3	2	1	0	-1	1	1	1	0	0	0	-1	0	0	-1	-1	-1	0	0	0	-1	-2	-2	-2	0	0
68	1	2	3	2	1	-1	-1	1	1	0	0	-1	-1	-1	0	-1	-2	-2	-2	-1	0	-1	-2	-3	-3	-2	0	0
72	2	2	2	1	0	-1	-1	1	0	-1	-1	-1	-1	-1	0	-2	-3	-3	-2	-1	0	-1	-2	-4	-4	-2	0	0
76	1	2	2	1	0	-1	-2	1	-1	-1	-2	-2	-1	-1	0	-2	-3	-4	-3	-1	0	-1	-3	-4	-4	-2	0	0
80	1	1	1	1	0	-1	-2	0	-1	-2	-2	-2	-2	-1	-1	-3	-4	-4	-3	-1	0	-2	-3	-4	-4	-2	0	1

MAY

18	0	0	-1	-1	0	0	0	0	0	-1	-1	0	0	0	0	-1	-1	-1	0	0	0	0	-1	0	0	0	0	0
20	0	0	-1	-1	0	0	0	0	0	-1	-1	0	0	0	0	-1	-1	-1	0	0	0	0	-1	0	0	0	0	0
24	-1	-1	-1	-1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
28	-1	-1	0	0	0	0	0	0	1	1	0	0	0	0	1	2	2	1	0	0	0	2	2	2	1	0	0	0
32	-1	-1	0	1	0	0	0	0	0	1	2	1	0	0	1	3	4	2	1	0	0	2	4	4	2	1	0	0
36	-1	0	1	1	1	0	0	1	2	3	2	1	0	0	2	4	5	3	1	0	0	3	5	5	3	1	0	0
40	0	0	1	1	1	0	0	1	2	3	2	1	0	0	2	4	5	3	1	0	0	2	4	5	3	1	0	-1
44	0	1	1	1	0	0	0	2	2	3	2	1	0	0	2	3	4	3	1	0	-1	2	4	4	3	1	0	-1
48	0	1	1	1	0	0	0	2	2	3	2	1	0	0	2	3	4	3	1	0	-1	2	3	3	2	0	-1	-1
52	1	1	2	1	1	0	0	2	2	3	2	1	0	0	2	3	3	2	1	0	-1	2	3	3	2	0	-1	-1
56	1	2	2	2	1	0	0	2	3	3	2	1	0	0	3	3	3	2	0	0	-1	2	2	2	1	-1	-1	-1
60	2	2	3	2	1	0	0	3	3	3	2	1	0	0	3	3	3	2	0	0	0	2	2	2	1	-1	-1	-1
64	2	3	3	2	1	0	0	3	3	3	1	0	0	0	3	3	2	1	0	0	0	2	2	1	0	-1	-1	-1
68	3	3	3	1	0	0	0	3	3	2	1	0	0	0	3	3	2	0	0	0	0	2	1	0	-1	-1	-1	-1
72	3	3	2	1	0	0	0	3	3	2	0	0	0	0	3	3	1	-1	-1	0	0	2	1	0	-1	-1	-1	-1
76	3	3	2	0	0	0	0	3	3	1	-1	0	0	0	3	2	1	-1	-1	0	0	1	1	0	-1	-1	0	-1
80	2	3	1	0	-1	-1	0	3	3	0	-1	0	0	0	2	2	0	-1	-1	0	0	1	1	0	-1	-1	0	0

JUNE

18	-1	-2	-3	-1	0	1	1	0	-1	-3	-2	-1	0	1	0	-1	-1	-1	-1	0	0	0	0	0	0	0	0	0	
20	-1	-2	-3	-1	0	1	1	0	-2	-3	-1	-1	0	1	0	-1	-1	-1	-1	0	0	0	0	0	0	0	0	0	
24	-2	-3	-3	-1	0	0	0	-1	-2	-2	-1	0	0	0	0	-1	-1	0	0	0	0	1	1	1	1	0	0	0	
28	-3	-3	-3	-1	0	0	0	-2	-1	-1	0	0	0	0	0	0	1	1	1	1	0	1	2	2	2	1	1	0	
32	-2	-2	-2	0	0	0	0	-1	-1	0	1	1	0	0	0	1	1	2	1	1	0	1	2	2	2	1	1	0	
36	-2	-2	-1	0	0	0	0	-1	-1	0	1	1	0	0	0	1	1	2	1	0	0	1	2	2	2	1	0	0	
40	-2	-1	-1	1	1	0	0	-1	-1	0	1	0	0	-1	0	0	0	0	0	0	-1	1	2	2	1	0	0	0	
44	-1	-1	-1	1	1	0	0	-1	-1	-1	0	-1	-1	-1	0	0	0	-1	-1	-1	-1	1	1	1	0	-1	0	0	
48	-1	-1	0	1	1	0	0	0	0	-1	0	-1	-1	-1	0	0	0	-1	-2	-1	-1	1	1	1	-1	-1	0	0	
52	-1	0	0	1	1	0	0	0	0	0	-1	-1	-1	-1	0	0	-1	-2	-2	-2	-1	1	0	-1	-2	-2	-1	-1	
56	-1	0	1	1	1	0	0	0	0	-1	-1	-1	-1	-1	0	0	-1	-2	-2	-2	-1	0	0	-1	-2	-2	-1	-1	
60	0	1	1	1	1	0	0	0	0	-1	-1	-1	-1	-1	0	0	-2	-2	-3	-2	-1	0	-1	-2	-3	-2	-1	0	
64	0	1	1	1	1	0	0	0	0	-1	-1	-1	-1	-1	0	-1	-2	-3	-3	-2	-1	0	-1	-2	-3	-2	0	1	
68	0	1	1	1	0	0	0	0	0	-1	-2	-2	-1	0	0	-1	-3	-3	-3	-1	0	-1	-2	-3	-4	-2	1	2	
72	0	1	1	1	0	-1	0	0	0	-2	-2	-2	-1	0	0	-2	-3	-4	-3	-1	1	-1	-2	-3	-4	-2	1	2	
76	0	1	0	0	-1	-1	-1	0	-1	-2	-3	-2	-1	0	-1	-2	-4	-4	-3	-1	1	-1	-3	-4	-4	-1	2	3	
80	-1	1	0	0	-1	-1	-1	-1	-1	-1	-3	-3	-3	-2	0	-1	-2	-4	-4	-3	0	1	-1	-3	-4	-4	-1	2	3

JULY

18	1	-1	-3	-2	0	1	1	1	-1	-3	-2	-1	0	1	0	-1	-2	-2	-1	-1	0	-2	-1	-1	0	-1	-1	0	
20	1	-2	-4	-2	0	0	1	1	0	-1	-3	-2	-1	0	1	-1	-1	-2	-1	-1	0	-2	-1	0	0	-1	-1	0	
24	-2	-5	-6	-3	-1	0	0	0	-2	-3	-3	-2	-1	0	0	-1	0	0	0	0	0	0	1	2	2	1	0	0	
28	-2	-4	-5	-3	-1	0	0	0	-2	-2	-1	0	0	0	0	-1	1	3	2	1	0	0	3	5	4	2	1	0	
32	-1	-3	-3	-1	-1	-1	0	0	-1	-1	1	2	1	0	0	-1	1	5	5	3	1	0	0	3	5	4	3	2	0
36	0	-1	0	1	1	0	0	0	0	1	4	5	3	1	0	0	2	6	7	4	1	0	0	2	4	5	3	1	0
40	1	1	2	4	3	1	0	0	0	2	5	7	4	1	0	0	2	5	6	4	1	0	0	1	2	2	1	0	-1
44	1	3	4	5	4	2	0	0	1	3	6	7	5	1	0	0	2	4	5	3	0	0	0	0	0	0	-1	-1	-1
48	2	3	5	6	4	2	1	1	1	3	6	6	4	1	0	0	2	4	4	2	0	0	0	0	-1	-2	-3	-2	-1
52	2	4	6	7	5	2	1	1	1	3	6	6	4	1	0	1	2	3	2	1	-1	-1	0	0	-2	-3	-4	-3	-1
56	2	4	6	7	5	2	1	2	2	4	6	6	4	1	0	1	2	2	1	-1	-2	-1	0	0	-2	-4	-5	-3	-2
60	2	4	6	7	5	2	1	2	4	6	6	4	3	0	0	1	2	3	1	-1	-2	-1	0	-1	-3	-4	-5	-3	-2
64	3	5	6	7	4	1	0	2	4	6	6	4	2	0	0	1	2	3	1	-1	-2	-1	0	-1	-2	-4	-5	-3	-1
68	3	5	6	6	3	0	0	3	4	6	5	2	0	0	0	1	2	2	1	-1	-2	-1	0	-1	-2	-4	-5	-3	-1
72	4	5	5	5	1	0	0	3	4	6																			

S HEMISPHERE

(DENSITY)/(ZONAL MEAN DENSITY) - 1 (%)

KN LAT= -80 -70 -60 -50 -40 -30 -20

LONGITUDE 100 DEG

LONGITUDE 150 W

LONGITUDE 120 W

LONGITUDE 90 W

-80 -70 -60 -50 -40 -30 -2000

AUGUST

18	-1	-4	-4	-3	-2	-1	0	0	0	1	2	1	1	0	1	4	7	6	3	2	0	2	5	7	6	3	1	0
20	-2	-4	-4	-3	-1	0	0	0	0	2	2	1	1	0	2	5	7	6	3	2	0	3	7	8	6	3	1	0
24	3	2	0	0	0	0	0	4	5	4	3	2	1	0	5	7	7	5	3	1	0	3	6	5	3	2	1	0
28	4	6	5	2	1	1	0	4	6	5	3	2	1	0	3	5	4	2	1	1	0	1	2	1	0	0	0	0
32	4	6	6	4	2	1	0	4	5	4	2	1	1	0	2	2	0	-1	-1	0	0	0	-1	-2	-3	-2	-1	0
36	4	5	5	4	2	1	0	3	3	2	0	0	0	0	1	1	-2	-4	-3	-1	0	-1	-2	-4	-4	-3	-1	0
40	4	4	3	2	1	0	0	2	2	-1	-2	-2	-1	0	1	-1	-3	-5	-4	-2	0	-1	-2	-4	-4	-3	-1	0
44	3	3	0	-1	-1	-1	0	2	0	-3	-4	-4	-2	0	0	-2	-4	-5	-4	-2	0	-2	-3	-3	-3	-2	0	0
48	3	2	-2	-3	-2	-2	-1	1	-1	-4	-5	-4	-2	0	-1	-3	-4	-5	-4	-1	0	-2	-3	-3	-2	-1	0	0
52	2	1	-3	-4	-3	-2	-1	0	-2	-5	-6	-4	-2	-1	-1	-3	-5	-5	-3	-1	0	-2	-4	-3	-2	0	1	1
56	1	0	-4	-4	-3	-2	-1	-1	-2	-5	-5	-4	-2	0	-2	-4	-5	-4	-2	0	1	-2	-4	-3	-1	0	2	1
60	1	-1	-5	-5	-3	-2	-1	-1	-3	-6	-5	-3	-2	0	-2	-4	-4	-3	-2	0	1	-2	-3	-1	1	1	2	2
64	0	-1	-5	-5	-2	-2	-1	0	-3	-5	-5	-3	-1	0	-1	-3	-3	-1	-1	1	1	-1	-2	1	3	2	2	1
68	1	-2	-6	-5	-2	-1	0	0	-2	-5	-4	-3	-1	0	0	-1	-1	0	0	1	1	0	0	3	5	4	2	1
72	1	-2	-5	-5	-2	-1	0	1	-1	-4	-4	-2	-1	0	1	0	1	1	1	1	1	1	3	5	6	5	2	1
76	2	-1	-5	-5	-3	-1	1	2	0	-3	-3	-2	0	0	2	2	2	2	2	1	1	2	4	7	7	5	3	1
80	2	-1	-5	-5	-3	-1	1	3	1	-2	-3	-2	0	1	4	4	3	3	2	2	1	3	6	8	8	6	3	1

SEPTEMBER

18	-2	3	7	6	3	2	1	0	4	8	6	4	2	1	2	5	7	6	3	1	0	3	6	6	5	2	1	0
20	-1	4	7	6	3	2	1	1	6	8	6	4	2	1	4	6	7	5	3	1	0	5	7	6	4	2	0	0
24	3	7	8	6	3	2	1	3	7	8	5	3	1	1	3	5	5	4	2	1	0	2	3	3	2	1	0	0
28	3	7	8	5	3	1	1	2	5	5	4	2	1	0	0	1	1	1	1	0	0	-1	-2	-2	-1	-1	-1	0
32	2	5	6	4	2	1	1	0	2	2	1	1	0	0	-2	-2	-2	-2	-1	0	0	-3	-5	-5	-4	-2	-1	0
36	1	3	4	2	1	1	0	-1	0	0	-1	0	0	1	-3	-4	-5	-4	-2	0	0	-4	-6	-7	-5	-3	-1	0
40	0	2	2	1	0	0	0	-3	-2	-2	-2	-1	0	1	-4	-5	-6	-5	-2	0	1	-5	-7	-7	-6	-3	0	0
44	-1	0	1	0	0	0	1	-4	-4	-3	-3	-1	0	1	-6	-7	-6	-4	-2	0	1	-6	-8	-7	-5	-2	0	0
48	-2	-1	0	0	-1	0	1	-5	-5	-3	-3	-1	0	1	-6	-7	-6	-4	-1	1	1	-6	-8	-6	-4	-1	1	1
52	-2	-1	0	0	-1	0	1	-5	-5	-3	-2	-1	1	1	-7	-7	-6	-3	-1	1	1	-6	-7	-5	-3	-1	1	1
56	-2	-1	0	-1	-1	0	1	-5	-5	-3	-2	-1	1	1	-7	-7	-5	-3	-1	1	1	-6	-7	-5	-3	0	1	1
60	-3	-3	-2	-2	-2	0	1	-6	-6	-4	-3	-1	1	1	-7	-7	-5	-3	-1	1	1	-6	-6	-3	-2	0	2	1
64	-4	-5	-3	-3	-2	-1	1	-6	-7	-5	-3	-1	1	1	-6	-7	-4	-2	0	1	1	-5	-5	-2	0	1	2	1
68	-5	-6	-5	-4	-2	0	1	-6	-7	-5	-3	-1	1	1	-6	-6	-4	-2	0	2	2	-4	-3	0	1	1	2	1
72	-5	-7	-5	-4	-2	0	1	-6	-7	-5	-3	-1	1	2	-5	-5	-3	-1	0	2	2	-2	-2	1	2	2	2	1
76	-5	-7	-5	-4	-2	0	1	-5	-7	-5	-3	-1	1	2	-4	-5	-2	-1	1	2	2	-1	-1	2	2	2	2	1
80	-5	-6	-5	-4	-2	0	1	-5	-6	-4	-3	-1	2	2	-3	-4	-2	0	1	2	2	0	0	2	3	3	2	1

OCTOBER

18	1	2	3	2	1	1	0	3	6	7	5	3	1	0	4	7	7	5	3	1	0	4	6	4	3	1	0	0
20	1	3	4	3	1	1	0	4	7	7	5	3	1	0	5	8	7	5	2	1	0	4	5	4	3	1	0	0
24	4	6	6	3	2	1	0	5	8	7	5	3	1	0	5	7	6	4	2	1	0	3	4	3	2	1	0	0
28	5	8	8	4	2	1	0	5	8	7	4	2	1	0	3	5	5	3	1	0	0	1	1	0	0	0	0	0
32	5	9	9	5	3	1	0	4	7	7	4	2	1	0	2	3	3	2	1	0	0	-1	-1	-2	-2	-1	0	0
36	5	8	9	5	2	1	0	4	6	6	3	1	0	0	1	2	2	0	0	0	0	-1	-2	-4	-3	-2	0	0
40	4	7	8	4	2	0	0	3	5	6	3	1	0	0	1	2	1	0	-1	0	0	-1	-3	-4	-3	-2	0	0
44	4	6	6	3	1	0	0	3	5	5	2	0	0	0	1	2	1	0	-1	0	1	-1	-3	-4	-3	-2	0	0
48	3	6	5	2	1	0	0	2	5	5	2	0	0	1	1	2	1	0	-1	0	1	-1	-3	-3	-2	0	0	0
52	3	5	4	1	0	0	0	2	5	4	1	0	0	1	1	2	1	0	-1	0	1	-1	-2	-3	-2	0	1	1
56	2	4	3	0	-1	0	0	2	4	3	0	-1	0	1	0	2	1	-1	-1	0	1	-1	-2	-3	-2	-1	0	1
60	2	2	1	-1	-1	0	0	1	3	2	0	-1	0	1	0	1	1	-1	-1	0	1	-1	-1	-2	-2	-1	0	1
64	1	1	1	-1	-1	0	0	0	2	2	0	0	0	1	0	1	1	0	0	1	1	-1	-1	-1	-1	0	1	1
68	1	1	0	-1	0	0	1	0	2	2	0	0	0	1	0	1	1	0	0	1	1	-1	-1	-1	0	0	1	1
72	0	1	0	-1	0	1	1	0	2	2	1	0	1	1	0	2	2	1	1	1	1	-1	0	0	0	0	0	1
76	1	1	0	0	0	1	1	1	3	3	1	1	1	1	0	2	3	1	1	1	1	0	0	0	0	0	0	0
80	1	1	1	0	0	1	1	1	3	3	1	1	1	1	1	3	3	2	1	1	1	0	0	1	1	0	0	0

NOVEMBER

18	0	0	1	1	1	0	0	1	2	3	2	1	0	0	2	3	4	3	1	0	-1	2	4	4	3	1	0	-1
20	0	0	1	1	1	0	0	1	2	3	2	1	0	0	2	3	4	3	1	0	-1	2	4	4	3	1	0	-1
24	1	2	2	2	1	0	0	1	2	2	2	1	0	0	1	2	2	2	1	0	0	1	2	2	1	0	0	0
28	2	3	3	2	1	0	0	1	2	2	1	1	0	0	1	1	1	0	0	0	0	0	0	-1	-1	0	0	0
32	2	3	3	2	1	0	0	1	1	1	0	0	0	0	0	0	-1	-1	0	0	0	-1	-2	-2	-2	-1	0	0
36	2	2	2	1	0	0	0	1	1	0	0	0	0	0	0	-1	-1	-1	0	0	0	-1	-2	-2	-2	0	0	0
40	1	1	1	0	0	0	0	1	0	0	0	0	0	0	0	-1	-1	-1	0	0	0	-1	-2	-2	-1	0	0	0
44	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	-1	0	0	0	0	0	-1	-1	0	0	0	0
48	-1	-1	-1	-1	0	0	0	0	0	-1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0
52	-1	-2	-2	-1	0	0	0	-1	-1	-1	0	0	0	0	0	0	0	0	1	1	0	0	1	1	1	1	0	0
56	-1	-2	-2	-1	0	0	0	-1	-1	-1	0	0	0	0	0	1	1	1	1	0	0	1	2	1	1	1	0	0
60	-1	-2	-2	-1	-1	0	0	-1	-1	-1	0	0	0	0	0	1	1	1	1	0	0	1	2	2	2	1	0	0
64	-2	-2	-2	-1	-1	0	0	-1	-1	-1	0	0	0	0	0	1	1	1	1	0	0	1	2	2	2	1	0	0
68	-2	-3	-2	-1	-1	0	0	-1	-1	-1	0	0	0	0	0	1	1	2	1	0	0	1	2	2	2	1	0	0
72	-2	-2	-2	-1	0	0	0	-1	-1	0	0	0	0	0	0	1	2	2	1	0	0	2	2					

$$(\text{DENSITY})/(\text{ZONAL MEAN DENSITY}) - 1 \quad (Z)$$

AUGUST

18	1	3	4	2	1	0	-1	0	0	0	-1	-1	-1	-1	-1	-2	-2	-2	-2	-1	-1	-1	-1	0	0	0	0	0	0
20	2	4	3	2	1	0	-1	0	0	0	-1	-2	-1	-1	-1	-1	-2	-2	-2	-2	-1	-1	-1	-2	-1	0	0	0	0
24	1	1	1	0	0	-1	0	-2	-3	-3	-2	-1	-1	-1	-1	-4	-5	-4	-2	-1	-1	-1	-4	-5	-3	-1	0	0	0
28	-1	-2	-2	-2	-1	1	0	-3	-4	-4	-2	-1	-1	0	0	-4	-5	-4	-2	-1	0	0	-4	-5	-4	-1	0	0	0
32	-2	-3	-4	-3	-1	-1	0	-3	-4	-4	-1	0	0	0	0	-3	-5	-3	-1	0	0	0	-3	-4	-3	-1	0	0	0
36	-2	-3	-4	-3	-1	0	0	-3	-4	-3	0	1	1	0	0	-3	-4	-2	1	1	1	0	-3	-3	-2	0	0	0	0
40	-2	-3	-3	-2	0	1	0	-3	-3	-2	1	2	2	1	0	-3	-3	-1	2	2	1	1	-3	-2	-1	0	0	0	0
44	-3	-3	-2	0	1	1	1	-3	-3	-1	2	3	2	1	0	-3	-3	0	2	2	1	0	-2	-1	0	2	1	0	0
48	-3	-3	-2	1	2	2	1	-3	-3	0	3	3	2	1	0	-2	-2	1	2	2	1	0	-1	0	2	2	0	0	0
52	-3	-3	-1	1	2	2	1	-2	-2	0	3	3	2	0	0	-2	-1	1	3	2	1	0	-1	1	3	3	1	0	0
56	-2	-3	-1	2	2	2	1	-2	-1	1	3	3	2	1	0	-1	0	2	3	2	0	0	0	1	3	2	1	0	0
60	-2	-1	1	3	3	3	1	-1	0	2	3	3	1	1	0	-1	1	2	2	1	0	0	0	1	2	1	0	-1	-1
64	-1	0	3	5	4	3	1	-1	1	3	4	2	1	0	0	-1	1	2	1	0	-1	-1	0	1	1	-1	-2	-2	-1
68	0	2	5	6	5	2	1	0	2	4	4	2	0	0	0	-1	1	1	-1	-2	-2	-1	-1	0	0	-3	-4	-3	-1
72	1	3	7	7	5	2	0	0	2	4	4	1	-1	-1	0	-2	0	0	-2	-3	-3	-2	-2	-2	-2	-4	-5	-3	-2
76	2	4	8	8	5	2	0	0	2	4	3	1	-1	-2	0	-2	-1	-1	-2	-4	-4	-2	-3	-3	-3	-5	-6	-3	-2
80	2	5	8	8	5	1	0	0	1	3	3	0	-2	-2	0	-3	-3	-2	-3	-5	-4	-3	-5	-5	-4	-5	-6	-4	-2

18	4	6	5	3	1	0	0	3	3	1	0	-1	-1	-1	1	-1	-4	-4	-2	-1	-1	-1	-4	-9	-7	-3	-1	-1
20	5	6	4	2	0	0	0	3	2	1	-1	-1	-1	-1	0	-3	-5	-4	-2	-1	-1	-1	-3	-7	-9	-7	-3	-1
24	0	0	0	0	-1	-1	-1	-2	-3	-2	-2	-2	-1	-1	-3	-5	-5	-4	-2	-1	0	-4	-7	-8	-6	-3	-1	0
28	-2	-4	-4	-2	-2	-1	-1	-3	-5	-5	-3	-2	-1	0	-2	-5	-5	-4	-2	-1	0	-2	-4	-5	-4	-2	-1	0
32	-3	-6	-7	-5	-3	-1	0	-3	-5	-6	-4	-2	-1	0	-1	-3	-4	-3	-2	-1	0	0	-1	-2	-2	-1	0	0
36	-4	-6	-7	-5	-3	-1	0	-2	-5	-5	-4	-2	-1	0	0	-2	-3	-2	-1	0	0	2	1	0	0	0	0	0
40	-4	-6	-7	-5	-2	0	0	-2	-4	-4	-3	-1	0	0	1	0	-1	0	0	0	0	3	3	2	2	1	0	0
44	-4	-6	-5	-3	-1	0	0	-2	-3	-2	-1	0	0	0	1	1	1	1	1	0	0	4	4	3	2	1	0	0
48	-4	-6	-4	-2	0	1	0	-1	-2	-1	0	1	0	0	2	2	1	1	1	0	0	5	5	3	2	1	0	-1
52	-4	-5	-3	-1	0	1	0	-1	-1	0	0	1	1	0	2	3	2	2	2	0	-1	5	5	3	2	1	0	-1
56	-4	-4	-2	-1	1	1	1	0	0	0	1	2	1	0	3	3	2	2	2	0	0	5	5	3	2	1	0	-1
60	-3	-2	0	1	1	1	1	1	2	3	2	2	1	0	4	5	4	3	2	1	0	6	6	3	2	2	0	-1
64	-2	0	2	2	2	2	1	2	4	5	4	3	1	0	5	6	5	4	3	1	0	6	6	3	2	2	0	-1
68	0	1	4	4	2	2	1	3	6	6	5	3	1	0	5	8	6	4	3	1	-1	6	7	3	2	1	0	-1
72	1	3	5	5	3	1	0	4	7	7	5	3	1	-1	6	8	6	4	2	0	-1	6	6	3	2	1	-1	-1
76	2	4	6	5	3	1	0	4	7	8	6	3	1	-1	5	8	6	4	2	0	-1	5	6	3	1	1	-1	-1
80	2	5	6	6	4	1	0	4	7	8	6	3	1	-1	5	8	6	4	2	0	-1	4	5	2	1	0	-1	-1

18	2	2	1	0	0	-1	0	0	-1	-2	-1	-1	-1	0	-2	-3	-3	-2	-1	-1	0	-2	-4	-4	-2	-1	0	0
20	2	2	1	0	-1	-1	0	-1	-2	-2	-2	-1	-1	0	-2	-4	-4	-2	-1	-1	0	-3	-5	-4	-3	-1	0	0
24	0	-1	-1	-1	-1	-1	0	-3	-5	-4	-3	-2	-1	0	-4	-6	-5	-3	-2	-1	0	-5	-7	-6	-3	-1	0	0
28	-2	-4	-4	-2	-1	-1	0	-4	-7	-7	-4	-2	-1	0	-5	-8	-7	-4	-2	-1	0	-5	-7	-6	-3	-2	-1	0
32	-3	-6	-7	-4	-2	-1	0	-4	-8	-8	-4	-3	-1	0	-5	-8	-8	-5	-3	-1	0	-4	-6	-4	-3	-2	-1	0
36	-3	-6	-8	-5	-2	-1	0	-4	-8	-9	-4	-3	-1	0	-4	-7	-7	-5	-2	-1	0	-3	-5	-4	-3	-1	-1	0
40	-3	-6	-8	-4	-2	-1	0	-4	-7	-9	-6	-2	-1	0	-4	-6	-6	-4	-2	-1	0	-3	-4	-3	-1	-1	0	0
44	-3	-6	-7	-5	-2	0	0	-4	-7	-8	-5	-2	0	0	-3	-6	-5	-3	-1	0	0	-2	-3	-2	0	0	0	0
48	-3	-6	-7	-5	-2	0	0	-4	-7	-7	-4	-1	0	0	-3	-5	-4	-2	0	0	0	-2	-2	-1	1	1	0	0
52	-3	-5	-6	-4	-1	0	0	-3	-6	-6	-3	-1	0	0	-3	-4	-3	-1	0	0	0	-2	-1	0	2	1	0	-1
56	-3	-5	-3	-3	-1	0	0	-3	-5	-5	-2	0	0	0	-2	-3	-2	0	1	0	0	-1	-1	1	2	2	0	-1
60	-2	-3	-4	-2	0	0	1	-2	-4	-3	-1	0	0	0	-2	-2	0	1	1	0	0	-1	0	2	3	2	0	-1
64	-2	-3	-3	-1	0	0	1	-2	-3	-2	0	1	0	0	-1	-1	1	2	1	0	0	0	1	3	3	1	0	-1
68	-1	-2	-2	-1	0	0	0	-1	-2	-1	0	0	0	0	-1	0	1	1	1	-1	-1	0	1	3	2	1	-1	-1
72	-1	-2	-2	-1	0	0	0	-1	-2	-1	0	0	-1	-1	0	0	1	1	0	-1	-1	0	1	2	2	0	-1	-1
76	-1	-2	-2	-1	0	0	0	-1	-2	-2	-1	0	-1	-1	-1	0	0	1	0	-1	-1	0	1	2	1	0	-1	-1
80	-1	-2	-2	0	0	-1	-1	-1	-2	-2	-1	0	-1	-1	-1	-1	0	0	0	-1	-1	0	1	2	1	0	-1	-1

18	2	3	3	2	0	-1	-1	1	1	1	0	-1	-1	0	0	-1	-2	-2	-1	0	0	-1	-3	-3	-3	-1	0	0
20	1	3	2	1	0	-1	0	1	1	0	0	-1	-1	0	0	-1	-1	-2	-2	-1	0	0	-1	-3	-3	-1	0	0
24	0	1	0	0	-1	-1	0	-1	-1	-1	-1	-1	0	0	0	-1	-2	-3	-2	-1	0	0	-2	-3	-3	-2	1	0
28	-1	-2	-2	-2	-1	0	0	-2	-3	-3	-2	-1	-1	0	0	-2	-3	-3	-2	-1	0	0	-2	-3	-2	-2	-1	0
32	-2	-3	-3	-2	-1	0	0	-2	-3	-4	-3	-1	0	0	0	-2	-3	-3	-2	-1	0	0	-2	-2	-1	-1	0	0
36	-1	-3	-3	-2	-1	0	0	-2	-3	-3	-2	-1	0	-1	0	-2	-3	-2	-2	-1	-1	-1	-1	-1	-1	0	0	0
40	-1	-2	-2	-2	0	0	0	-1	-2	-2	-2	-1	0	-1	0	-1	-2	-1	-1	-1	-1	-1	-1	-1	0	0	0	0
44	0	-1	-1	-1	0	0	0	0	-1	-1	-1	0	0	-1	0	-1	0	0	-1	-1	0	0	0	0	1	0	0	0
48	1	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	1	0	0	-1	-1	0	0	1	1	0	0	0
52	1	1	1	1	0	0	0	1	1	1	0	0	0	0	0	1	1	1	0	-1	0	0	0	1	1	0	0	0
56	1	2	1	1	0	0	0	1	2	1	0	0	0	0	0	1	2	1	0	-1	0	0	0	1	1	0	-1	0
60	1	2	2	1	1	0	0	1	2	2	1	0	0	0	0	1	2	1	0	-1	-1	0	0	1	1	0	-1	0
64	2	2	2	1	1	0	0	2	2	2	1	0	0	0	0	1	2	1	0	-1	-1	0	0	1	1	0	-1	0
68	2	3	2	1	1	0	0	2	2	2	0	0	-1	0	0	1	2	1	0	-1	-1	0	0	1	1	0	-1	0
72	2	3	2	1	0	0	0	2	2	1	0	-1	-1	0	0	1	2	1	0	-1	-1	0	0	1	1	0	-1	0
76	2	3	2	1	0	0	0	2	2	1	0	-1	-1	0	0	1	2	1	-1	-1	-1	0	0	1	1	0	0	0
80	2	3	1	1	0	0	0	2	2	1	0	-1	-1	0	0	1	1	1	-1	-1	-1	0	0	1	1	0	0	0

S HEMISPHERE

(DENSITY)/(ZONAL MEAN DENSITY) - 1 (%)

KN LAT	LONGITUDE 60 E							LONGITUDE 90 E							LONGITUDE 120 E							LONGITUDE 150 E							
	-80	-70	-60	-50	-40	-30	-20	-80	-70	-60	-50	-40	-30	-20	-80	-70	-60	-50	-40	-30	-20	-80	-70	-60	-50	-40	-30	-20	-10

AUGUST

18	0	1	1	1	1	1	1	0	0	-1	-1	0	1	1	-1	-2	-5	-4	-2	0	0	-1	-5	-7	-6	-3	-1	0		
20	0	0	0	1	1	1	1	0	0	-1	-1	0	1	1	-1	-3	-5	-4	-2	0	0	-2	-5	-6	-5	-2	-1	0		
24	-3	-4	-2	0	0	0	0	-2	-3	-2	-1	0	0	0	-1	-2	-3	-3	-1	0	0	1	-1	-3	-3	-1	0	0		
28	-3	-4	-3	-1	0	0	0	-1	-2	-2	-1	-1	0	0	1	1	0	-1	0	0	0	2	3	3	1	0	0	0		
32	-2	-3	-2	-1	-1	0	0	-1	-1	0	-1	-1	-1	0	1	2	3	2	0	0	0	3	5	5	4	2	1	0		
36	-2	-2	-1	-1	-1	-1	0	0	0	1	0	-1	-1	-1	2	3	4	3	1	0	0	3	5	6	5	3	1	0		
40	-1	-1	0	0	-1	-1	0	1	2	2	1	0	-1	-1	3	4	4	3	2	0	0	4	5	5	4	3	1	0		
44	-1	1	2	1	0	0	0	1	3	4	2	1	0	0	3	4	4	3	2	1	0	4	4	3	2	2	0	0		
48	0	2	3	2	0	0	0	2	4	4	3	1	1	0	3	5	4	3	2	1	0	4	4	2	1	1	0	-1		
52	1	2	4	3	1	0	0	2	4	5	3	2	1	0	3	4	3	2	1	0	0	3	3	1	-1	-1	-1	-1		
56	1	2	4	3	1	0	0	2	4	4	3	1	0	0	3	4	3	1	1	0	-1	2	2	0	-1	-1	-1	-1		
60	1	2	3	1	0	0	0	2	3	4	2	1	0	0	2	3	2	1	1	0	0	2	2	-1	-2	-1	-1	-1		
64	0	1	2	0	-1	-1	-1	1	2	2	1	0	0	0	2	2	1	1	1	1	0	1	1	-2	-2	0	-1	0		
68	-1	0	0	-1	-2	-1	-1	0	1	1	1	1	1	0	1	1	0	1	2	1	1	1	0	-2	-2	0	0	0		
72	-2	-2	-1	-3	-3	-1	-1	-1	-1	0	0	1	1	1	0	0	-1	0	2	2	1	1	-1	-4	-3	0	1	1		
76	-3	-3	-2	-3	-3	-1	0	-2	-1	-1	0	1	2	1	0	-1	-2	0	3	2	2	1	-1	-4	-3	0	1	1		
80	-4	-4	-3	-3	-3	-1	0	-3	-2	-1	0	1	2	1	-1	-1	-2	0	3	2	2	1	-1	-4	-3	0	1	1		

SEPTEMBER

18	-2	-8	-12	-8	-4	-1	0	-3	-8	-9	-6	-3	-1	0	-3	-4	-4	-2	-1	0	0	-3	0	3	3	1	1	1		
20	-4	-9	-11	-8	-4	-1	0	-4	-8	-9	-6	-3	-1	0	-3	-4	-3	-2	-1	0	0	-2	1	3	3	2	1	1		
24	-3	-7	-8	-6	-3	-1	0	-2	-4	-5	-4	-2	0	0	0	0	0	0	0	0	0	2	4	5	4	2	1	1		
28	0	-3	-4	-3	-1	0	0	1	0	0	0	0	0	0	2	3	4	3	1	1	0	3	6	7	5	3	1	0		
32	1	1	1	1	0	0	0	2	3	4	3	2	1	0	3	5	6	5	3	1	0	3	5	7	5	2	1	0		
36	3	3	3	3	2	0	0	4	5	6	5	2	1	0	3	6	7	6	3	1	0	3	5	7	5	2	1	0		
40	4	5	4	4	2	0	0	4	6	6	5	2	0	0	4	6	7	5	2	0	0	2	4	6	4	2	0	0		
44	5	6	4	3	1	0	-1	5	6	5	4	1	0	-1	4	5	6	4	1	0	-1	2	3	4	2	1	0	0		
48	6	6	4	2	1	-1	-1	6	6	5	3	0	-1	-1	4	5	5	3	0	-1	-1	2	3	3	2	0	-1	0		
52	6	6	3	2	0	-1	-1	6	6	4	2	0	-1	-1	4	5	4	2	0	-1	-1	2	3	3	1	0	-1	0		
56	6	5	3	1	0	-1	-1	6	5	3	1	-1	-2	-1	4	4	3	1	-1	-2	-1	1	2	2	1	-1	-1	0		
60	6	5	2	1	0	-1	-1	5	4	2	0	-1	-2	-1	3	2	1	0	-2	-2	-1	0	0	0	-1	-2	-1	0		
64	6	5	1	1	0	-1	-1	4	3	0	-1	-1	-2	-1	2	1	0	-1	-2	-2	-1	-1	-2	-2	-2	-3	-2	0		
68	5	4	0	0	0	-1	-1	3	1	-1	-2	-2	-2	-1	0	-1	-2	-2	-3	-2	-1	-3	-4	-3	-3	-3	-1	0		
72	4	3	0	-1	-1	-1	-1	2	0	-2	-2	-2	-2	-1	-1	-2	-3	-3	-3	-2	-1	-4	-5	-4	-4	-3	-1	0		
76	4	3	-1	-1	-1	-2	-1	1	-1	-3	-3	-2	-2	-1	-2	-3	-4	-3	-3	-2	-1	-4	-5	-5	-4	-3	-1	0		
80	3	2	-1	-2	-1	-2	-1	0	-1	-3	-3	-2	-2	-1	-2	-4	-4	-4	-3	-2	-1	-4	-5	-5	-4	-3	-1	0		

OCTOBER

18	-3	-4	-5	-3	-1	0	0	-3	-5	-5	-3	-1	0	0	-3	-4	-4	-3	-1	0	0	-2	-2	-1	0	0	0	1		
20	-3	-5	-5	-3	-1	0	0	-3	-5	-5	-3	-1	0	0	-2	-3	-3	-2	-1	0	0	-1	-1	0	0	0	0	1		
24	-4	-5	-5	-3	-1	0	0	-2	-3	-3	-2	-1	0	0	0	0	-1	-1	0	0	0	2	3	3	1	1	1	0		
28	-3	-4	-4	-2	-1	0	0	-1	-1	-1	0	0	0	0	2	3	3	1	1	1	0	4	4	4	3	2	1	0		
32	-2	-3	-2	-1	0	0	0	0	1	1	1	1	0	0	3	5	5	4	2	1	0	5	8	8	5	3	1	0		
36	-2	-2	-1	0	0	0	0	1	2	2	3	2	1	0	3	5	6	4	3	1	0	5	8	8	5	3	1	0		
40	-1	-1	0	1	1	0	0	1	2	3	3	2	1	0	3	5	5	4	2	1	0	4	7	7	5	3	1	0		
44	-1	0	1	2	1	0	0	1	2	3	3	2	0	0	3	4	4	3	2	1	0	4	6	5	3	2	0	0		
48	0	0	2	2	1	0	0	1	2	2	2	1	0	0	3	3	3	2	1	0	0	3	5	4	2	1	0	0		
52	0	1	2	3	1	0	-1	1	1	2	2	1	0	-1	2	2	1	1	1	0	0	3	4	2	1	0	0	0		
56	0	1	2	3	2	0	-1	1	1	1	2	1	0	-1	2	1	0	0	0	0	0	3	2	1	0	-1	0	0		
60	0	1	2	3	1	0	-1	1	1	0	1	0	0	-1	2	0	-1	-1	-1	-1	-1	2	1	0	-1	-1	-1	0		
64	1	1	2	2	1	0	-1	1	0	0	0	0	0	-1	2	-1	-2	-1	-1	0	-1	1	0	-1	-2	-1	0	0		
68	1	1	2	2	0	0	-1	1	0	-1	0	0	0	-1	1	-1	-3	-2	-1	0	0	1	-1	-2	-2	-1	0	0		
72	0	1	2	1	0	-1	-1	0	0	-1	0	0	0	0	1	-2	-3	-2	-1	0	0	1	-1	-2	-2	-1	0	0		
76	0	1	1	1	0	-1	-1	0	-1	-1	-1	-1	-1	0	0	-2	-3	-2	-1	0	0	0	-1	-2	-2	0	1	1		
80	0	0	1	1	0	-1	-1	0	-1	-1	-1	-1	-1	0	0	-2	-3	-2	-1	0	0	0	-1	-2	-2	0	1	1		

NOVEMBER

18	-2	-3	-4	-3	-1	0	0	-2	-3	-3	-2	0	0	1	-1	-2	-2	-1	0	0	1	-1	-1	-1	0	0	0	1		
20	-2	-3	-4	-3	-1	0	0	-1	-3	-3	-2	0	0	1	-1	-2	-2	-1	0	0	1	-1	-1	0	0	0	0	1		
24	-1	-2	-2	-2	0	0	0	-1	-1	-1	-1	0	0	0	0	0	0	0	0	0	0	1	1	1	1	1	0	0		
28	-1	-1	-1	0	0	0	0	0	1	1	1	1	0	0	1	2	2	2	1	0	0	2	3	3	2	1	0	0		
32	-1	0	1	1	0	0	0	1	2	3	2	1	0	0	2	3	4	3	1	0	0	2	4	4	3	1	0	0		
36	0	0	1	1	0	0	0	1	2	3	2	1	0	0	2	3	4	3	1	0	0	2	3	3	2	1	0	0		
40	0	1	2	1	0	0	0	1	2	3	2	1	0	0	1	2	3	2	1	0	0	1	2	2	1	0	0	0		
44	0	1	1	1	0	0	0	0	1	2	1	0	0	0	1	1	1	1	0	0	0	1	0	0	0	0	0	0		
48	0	1	1	1	0	0	0	0	0	0	1	0	0	0	0	-1	0	0	0	0	0	0	-1	-1	-1	0	0	0		
52	0	0	1	0	0	0	0	0	-1	0	0	0	0	0	-1	-2	-1	-1	0	0	0	-1	-2	-2	-1	0	0	0		
56	0	0	1	0	0	0	0	0	-1	-1	0	0	0	0	-1	-2	-2	-1	0	0	0	-1	-3	-2	-1	-1	0	0		
60	0	0	0	0	0	0	0	0	-1	-1	0	0	0	0	-1	-2	-2	-1												

N HEMISPHERE

(DENSITY)/(ZONAL MEAN DENSITY) - 1 (%)

	LONGITUDE 180 DEG							LONGITUDE 150 W							LONGITUDE 120 W							LONGITUDE 90 W							
KN LAT=	20	30	40	50	60	70	80	20	30	40	50	60	70	80	20	30	40	50	60	70	80	20	30	40	50	60	70	80	
SEPTEMBER																													
18	0	0	1	1	1	1	0	0	0	1	1	1	1	0	0	0	1	1	0	0	0	0	0	0	0	0	-1	-1	-1
20	0	0	1	1	1	1	0	0	0	1	1	1	1	0	0	0	0	1	0	0	0	0	0	0	0	0	-1	-1	0
24	0	0	1	1	1	1	0	0	0	1	1	1	1	0	0	0	0	1	0	0	0	0	0	0	0	0	0	-1	0
28	0	1	1	1	1	1	0	0	0	1	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
32	0	1	1	1	1	1	0	0	1	1	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
36	1	1	1	1	1	1	0	0	1	1	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
40	1	1	1	1	1	1	0	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
44	1	1	1	1	1	1	0	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
48	1	1	1	1	1	0	0	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
52	1	1	1	0	0	0	0	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
56	1	1	1	0	0	0	0	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
60	1	1	0	0	0	0	0	1	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
64	1	1	0	0	0	0	0	1	1	0	1	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0
68	1	1	1	0	0	0	0	1	1	1	1	0	0	-1	0	1	0	1	1	0	0	0	0	0	0	0	0	0	0
72	1	1	1	0	0	0	0	1	1	1	1	1	0	-1	0	1	1	1	1	0	0	0	0	0	1	0	0	0	0
76	1	1	1	0	0	0	0	1	1	1	1	1	0	-1	0	1	1	1	1	0	0	0	1	0	1	0	0	0	0
80	1	1	1	0	0	0	0	1	1	1	1	1	0	-1	1	1	1	1	1	0	0	0	1	0	1	0	0	0	0
OCTOBER																													
18	0	1	1	-1	-1	-1	-1	0	0	1	0	0	-1	-1	0	0	1	1	0	-1	-1	0	-1	0	0	0	-1	-1	0
20	0	1	1	0	-1	-1	-1	0	0	1	0	0	-1	-1	0	0	1	1	0	-1	-1	0	0	0	0	0	-1	0	0
24	0	1	1	0	0	-1	-1	0	1	1	1	1	0	-1	0	0	1	1	1	0	0	0	0	0	1	1	0	0	0
28	1	1	1	1	1	1	0	0	1	1	2	2	1	0	0	0	1	1	2	1	1	0	0	0	1	1	0	1	1
32	0	1	1	3	3	3	1	0	1	1	2	3	3	2	0	0	0	0	1	2	2	2	0	0	0	0	1	1	1
36	0	0	1	4	6	6	3	0	0	1	2	4	5	3	0	0	0	0	1	2	2	0	0	-1	-1	-1	0	0	
40	0	0	1	4	7	8	5	0	0	0	1	4	5	3	0	0	-1	-2	-1	1	1	0	0	-1	-3	-4	-3	-2	
44	0	0	0	4	8	9	6	0	0	-1	0	3	4	3	0	0	-2	-3	-3	-2	0	0	0	-2	-5	-6	-6	-4	
48	0	-1	0	3	7	9	5	0	-1	-1	-1	1	3	2	0	0	-2	-4	-4	-3	-1	0	0	-2	-5	-8	-7	-4	
52	0	-1	0	3	7	8	5	0	-1	-2	-1	1	2	2	0	-1	-2	-5	-5	-4	-2	0	0	-3	-6	-8	-8	-4	
56	0	-1	0	2	6	7	5	0	-1	-2	-2	0	0	1	0	-1	-3	-5	-6	-6	-3	1	0	-3	-7	-9	-9	-5	
60	0	-1	-1	2	5	6	4	0	-1	-2	-3	-1	-1	0	1	-1	-3	-6	-7	-6	-3	1	0	-3	-7	-10	-9	-5	
64	0	-1	-1	1	4	5	4	0	-1	-3	-3	-2	-1	0	1	-1	-4	-6	-7	-6	-4	1	0	-3	-7	-9	-8	-5	
68	0	-1	-2	0	3	4	4	0	-2	-3	-4	-2	-1	0	0	-1	-4	-6	-7	-5	-3	1	0	-3	-7	-9	-7	-5	
72	0	-2	-2	0	2	4	3	0	-2	-3	-4	-3	-1	0	0	-1	-4	-6	-6	-5	-3	0	0	-3	-7	-8	-7	-5	
76	0	-1	-2	-1	2	4	3	0	-2	-3	-4	-2	0	0	0	-1	-4	-6	-6	-4	-3	0	0	-3	-6	-8	-6	-5	
80	0	-1	-2	-1	2	4	3	0	-1	-3	-3	-2	0	0	0	-1	-3	-5	-6	-3	-2	1	0	-2	-6	-7	-5	-4	
NOVEMBER																													
18	1	2	1	-1	-1	-2	-1	0	1	2	1	0	-1	-1	-1	0	2	1	0	-1	-1	-1	-1	1	1	0	-1	-1	
20	1	2	1	-1	-1	-1	-1	0	1	2	1	0	-1	-1	-1	-1	0	2	2	1	-1	-1	-1	0	1	1	0	0	
24	1	2	2	0	0	0	0	0	1	2	2	2	1	0	0	0	1	2	2	1	1	-1	0	0	1	1	1	1	1
28	1	2	2	3	3	3	2	1	1	2	3	5	5	3	0	0	0	1	2	4	5	4	0	0	0	1	2	4	3
32	0	1	3	6	8	7	4	0	0	1	5	9	10	6	0	0	0	2	6	8	6	0	-1	-1	0	3	5	5	
36	0	0	2	8	12	12	7	0	0	0	6	12	13	9	0	-1	-1	2	7	10	7	0	-1	-2	-1	2	4	4	
40	-1	-1	2	9	15	15	9	0	-1	0	5	12	15	9	0	-1	-2	1	6	9	7	0	-1	-3	-2	0	2	2	
44	-1	-1	1	8	15	15	9	-1	-2	-1	4	11	13	9	-1	-2	-2	1	5	7	5	0	-1	-3	-3	-2	0	1	
48	-1	-2	1	7	14	15	9	-1	-2	-1	4	10	12	8	-1	-2	-2	1	4	6	4	0	-2	-3	-3	-2	-1	0	
52	-2	-2	0	7	14	14	9	-1	-2	-1	4	10	11	7	-1	-2	-2	0	2	4	3	0	-1	-3	-4	-4	-3	-2	
56	-2	-2	0	6	14	15	8	-2	-2	-1	4	9	11	7	-1	-2	-2	0	2	4	3	0	-1	-3	-4	-4	-3	-2	
60	-2	-2	-1	6	13	14	8	-2	-2	-2	3	8	9	6	-1	-2	-3	-1	1	2	2	0	-2	-4	-5	-6	-5	-2	
64	-2	-2	-1	5	12	13	7	-2	-2	-2	2	6	7	4	-1	-2	-3	-2	-1	0	1	0	-2	-4	-6	-7	-6	-3	
68	-1	-1	-1	4	10	11	6	-1	-1	-2	1	4	5	3	-1	-2	-3	-3	-3	-1	0	0	-1	-3	-6	-8	-7	-3	
72	-1	-1	0	3	8	10	5	-1	-1	-1	0	2	4	2	-1	-1	-3	-3	-4	-3	-1	0	-1	-3	-6	-8	-7	-3	
76	0	0	0	3	6	8	4	-1	-1	-1	-1	1	3	2	-1	-1	-2	-3	-4	-3	-1	0	-1	-3	-5	-7	-7	-3	
80	0	0	0	2	5	7	4	0	0	-1	-1	1	2	1	0	-1	-2	-3	-4	-3	-1	0	-1	-2	-5	-7	-7	-3	
DECEMBER																													
18	1	2	-1	-4	-4	-2	0	0	1	0	-3	-4	-3	-1	-1	0	0	-1	-3	-4	-2	-1	0	1	0	-2	-3	-2	
20	1	2	0	-4	-4	-2	0	0	1	0	-2	-3	-2	-1	0	0	0	-1	-2	-3	-2	-1	0	1	1	-1	-2	-2	
24	1	2	1	-1	0	0	1	1	2	2	1	2	2	1	0	1	2	2	2	1	1	-1	0	2	2	1	1	0	
28	1	2	3	4	6	4	3	0	2	3	6	8	9	5	0	1	3	5	7	8	5	0	0	1	3	4	4	3	
32	0	1	4	9	12	12	6	0	1	4	10	15	15	8	0	0	2	7	11	12	7	0	-1	0	1	4	5	4	
36	0	0	5	13	18	16	8	0	0	3	11	19	18	9	0	-1	0	5	11	11	6	0	-1	-3	-3	0	2	2	
40	-1	0	4	14	19	17	9	-1	-1	1	9	17	16	8	-1	-2	-3	1	7	7	4	0	-2	-5	-7	-5	-2	0	
44	-1	-1	3	12	18	16	9	-1	-2	-1	6	13	12	7	-1	-3	-5	-3	2	3	3	0	-2	-7	-10	-8	-5	-1	
48	-1	-1	2	9	15	14	9	-1	-3	-3	3	9	9	6	-1	-4	-7	-6	-1	1	2	0	-2	-7	-11	-9	-6	-3	
52	-1	-2	1	8	13	12	8	-1	-3	-4	1	7	7	5	-1	-4	-7	-7	-3	0	1	0	-2	-7	-11	-10	-8	-3	
56	-1	-2	0	6	11	11	8	-1	-4	-4	-1	5	6	5	-1	-4	-8	-8	-4	-2	0	0	-2	-7					

$$(\text{DENSITY})/(\text{ZONAL MEAN DENSITY}) - 1 \quad (X)$$
99

N HEMISPHERE

(DENSITY)/(ZONAL MEAN DENSITY) - 1 (X)

KN LAT=	LONGITUDE 60 E							LONGITUDE 90 E							LONGITUDE 120 E							LONGITUDE 150 E							BODES
	20	30	40	50	60	70	80	20	30	40	50	60	70	80	20	30	40	50	60	70	80	20	30	40	50	60	70	80	
SEPTEMBER																													
18	0	0	-1	0	0	0	0	1	1	0	-1	-1	0	0	1	1	0	-1	-1	0	0	0	1	0	0	0	0	0	0
20	0	0	-1	-1	0	0	0	1	1	0	-1	-1	0	0	1	1	0	-1	-1	0	0	0	1	0	0	0	0	0	0
24	0	0	-1	-1	0	0	0	0	0	0	-1	-1	-1	0	0	1	0	-1	-1	-1	0	0	1	0	0	0	0	0	0
28	0	0	-1	-1	-1	0	0	0	0	0	-1	-1	-1	0	0	0	0	0	-1	-1	0	0	0	0	0	0	0	0	0
32	0	-1	-1	-1	-1	-1	0	0	0	0	-1	-1	-1	-1	0	0	0	0	-1	-1	0	0	0	1	0	0	0	0	0
36	0	-1	-1	-1	-1	-1	-1	0	-1	0	0	-1	-1	-1	0	0	0	0	0	0	0	0	0	0	1	1	0	0	0
40	-1	-1	-1	-1	-1	-1	-1	-1	-1	0	0	0	-1	-1	0	0	0	0	0	0	0	0	0	0	1	1	1	0	0
44	-1	-1	-1	-1	0	-1	0	-1	-1	-1	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	1	1	0	0
48	-1	-1	-1	0	0	0	0	0	-1	-1	0	1	0	0	0	0	0	0	1	1	0	0	0	0	0	1	1	0	0
52	0	-1	0	0	0	0	0	0	-1	-1	0	1	1	0	0	0	0	0	1	1	0	0	0	0	1	1	0	0	0
56	0	-1	0	0	0	0	0	0	-1	0	0	1	1	0	0	0	0	0	1	1	0	0	0	0	1	1	0	0	0
60	0	-1	0	0	1	0	0	0	-1	0	0	1	1	0	0	0	0	0	1	1	0	0	0	0	1	1	0	0	0
64	-1	-1	0	0	0	0	0	-1	-1	-1	0	1	1	0	0	0	0	0	1	1	0	0	0	0	0	0	0	0	0
68	-1	-1	0	0	0	0	0	-1	-1	-1	0	1	1	0	0	-1	-1	0	0	1	0	0	0	0	0	0	0	0	0
72	-1	-1	-1	0	0	0	0	-1	-1	-1	0	0	0	0	-1	-1	-1	-1	0	0	0	0	0	0	0	0	0	0	0
76	-1	-1	-1	0	0	0	0	-1	-2	-1	0	0	0	0	-1	-1	-1	-1	0	0	0	0	0	0	-1	0	0	0	0
80	-1	-1	-1	0	0	0	0	-1	-2	-1	0	0	0	0	0	-1	-1	-1	-1	0	0	0	1	0	0	-1	0	0	0
OCTOBER																													
18	0	0	-1	0	1	1	0	1	1	-1	-1	-1	-1	-1	1	1	0	-2	-2	-1	-1	1	1	0	-2	-2	-1	-1	-1
20	0	0	-1	0	1	1	0	1	1	-1	-1	-1	-1	-1	1	1	0	-2	-2	-2	-1	1	1	0	-2	-2	-2	-1	-1
24	0	0	-1	-1	-1	-1	0	0	0	-1	-2	-3	-3	-2	1	1	0	-2	-3	-3	-2	1	1	1	-1	-2	-2	-2	-1
28	0	0	-1	-2	-3	-3	-1	0	0	-1	-3	-4	-4	-2	0	0	0	-2	-3	-3	-2	1	1	1	0	-1	-1	-1	-1
32	0	0	-1	-3	-4	-4	-2	0	0	-1	-3	-4	-5	-2	0	0	0	-1	-2	-3	-2	0	0	1	1	1	0	0	0
36	0	0	-1	-2	-4	-4	-2	-1	-1	0	-1	-3	-3	-2	-1	-1	0	1	1	0	0	0	0	1	3	4	4	2	2
40	0	0	0	-1	-3	-3	-2	-1	-1	1	1	0	0	0	-1	-1	1	3	4	4	3	0	0	1	5	8	8	5	5
44	0	0	1	1	-1	-2	-1	-1	0	1	3	4	3	2	-1	-1	2	5	8	8	5	0	0	1	6	10	11	6	6
48	0	0	2	2	1	0	0	-1	0	2	4	6	5	3	-1	-1	2	6	10	10	6	0	-1	1	6	11	12	7	7
52	0	0	2	3	2	1	1	-1	0	2	5	7	7	4	-1	-1	2	6	11	11	6	0	-1	1	6	11	12	7	7
56	-1	0	2	4	4	3	1	-1	0	2	6	9	9	5	-1	-1	2	7	12	13	7	-1	-1	1	6	11	12	7	7
60	-1	0	3	5	5	4	2	-1	0	3	7	10	10	5	-1	-1	2	7	12	13	7	-1	-1	1	6	11	12	7	7
64	-1	0	3	5	6	4	2	-1	0	3	7	10	9	5	-1	-1	2	7	11	12	6	-1	-1	1	5	9	10	4	4
68	-1	1	3	6	6	4	2	-1	0	3	7	9	8	4	-1	-1	2	6	10	10	6	-1	-1	0	4	8	9	4	4
72	-1	1	3	5	6	3	2	-1	0	2	6	9	7	4	-1	-1	1	5	9	9	4	-1	-1	0	3	7	8	6	6
76	-1	1	3	5	5	2	2	-1	0	2	5	8	5	4	-1	-1	1	4	8	7	5	-1	-1	-1	2	6	7	5	5
80	-1	0	2	4	5	1	2	-1	0	1	4	7	4	3	-1	-1	0	4	7	6	5	-1	-1	-1	2	6	6	4	4
NOVEMBER																													
18	0	-1	-1	0	0	1	1	1	0	-2	-3	-2	-1	0	2	1	-2	-4	-4	-2	-1	2	2	-1	-3	-3	-2	-1	-1
20	0	-1	-1	0	0	1	0	1	0	-2	-3	-3	-2	-1	2	1	-2	-4	-4	-3	-1	2	2	0	-3	-3	-2	-1	-1
24	0	-1	-2	-2	-2	-2	-1	1	0	-2	-4	-5	-4	-2	1	1	-1	-4	-5	-4	-2	1	2	0	-2	-3	-2	-1	-1
28	0	-1	-2	-4	-6	-6	-4	0	0	-2	-4	-7	-7	-5	0	0	0	-2	-5	-5	-3	1	1	1	1	0	-1	-1	-1
32	0	0	-2	-5	-9	-10	-6	0	0	0	-4	-8	-9	-6	0	0	1	0	-3	-5	-3	0	0	1	3	4	3	0	0
36	0	1	0	-5	-10	-11	-7	0	0	1	-2	-7	-9	-6	0	0	3	3	0	-2	-2	-1	0	4	7	8	4	3	0
40	1	1	1	-4	-10	-11	-7	0	1	3	0	-4	-6	-4	-1	1	4	6	4	1	0	-1	0	4	9	11	9	5	5
44	1	2	2	-3	-8	-9	-6	0	2	4	2	-2	-4	-3	0	1	4	7	6	4	2	-1	0	3	9	13	12	6	6
48	1	3	2	-2	-7	-8	-5	0	2	4	3	0	-2	-2	-1	1	4	7	7	5	3	-1	-1	3	8	13	12	7	7
52	1	3	3	-1	-6	-7	-4	0	2	4	3	1	-1	-1	-1	0	3	7	8	6	3	-2	-1	2	8	13	12	7	7
56	2	3	4	1	-4	-6	-3	0	2	4	5	3	1	0	-1	0	3	7	10	8	4	-2	-2	1	8	14	14	7	7
60	2	3	4	2	-2	-4	-2	0	1	4	6	5	3	1	-1	-1	3	8	12	9	4	-2	-2	1	8	15	14	7	7
64	1	2	4	3	0	-3	-2	0	1	4	7	7	4	1	-1	-1	2	8	12	10	5	-2	-2	0	7	14	14	7	7
68	1	2	4	4	1	-1	-1	0	0	3	7	7	4	2	0	-1	2	8	12	10	5	-1	-1	0	7	13	13	6	6
72	0	1	3	4	2	0	0	0	0	2	6	7	5	2	0	-1	1	7	11	9	5	0	-1	0	6	11	12	6	6
76	0	0	2	3	2	0	0	0	-1	1	5	7	4	2	0	-1	1	6	10	9	4	0	-1	0	5	10	10	5	5
80	0	0	2	3	2	1	0	0	-1	1	4	6	4	2	-1	-1	0	5	8	7	4	0	-1	0	4	8	9	5	5
DECEMBER																													
18	0	-2	-2	2	4	3	1	1	-1	-3	-2	0	1	1	2	1	-3	-5	-3	0	1	2	2	-2	-5	-5	-1	1	1
20	0	-2	-2	1	3	2	1	1	-1	-3	-3	-1	0	0	2	1	-3	-5	-4	-1	0	2	2	-1	-5	-5	-2	0	0
24	0	-2	-3	-2	-1	-1	-1	1	-1	-3	-4	-5	-4	-2	1	1	-2	-5	-5	-4	-2	1	2	0	-3	-3	-2	-1	-1
28	0	-1	-3	-5	-7	-7	-4	0	0	-2	-5	-8	-8	-5	0	0	-1	-3	-5	-6	-3	1	1	1	0	0	0	0	0
32	0	0	-1	-3	-4	-4	-2	0	0	-1	-5	-9	-9	-5	0	0	1	-1	-4	-5	-3	0	1	3	4	5	3	2	2
36	0	1	0	-5	-10	-10	-6	0	1	1	-3	-8	-8	-4	0	1	3	2	-1	-2	-1	-1	0	4	9	9	7	4	4
40	0	2	1	-3	-8	-8	-5	0	1	2	0	-5	-5	-3	0	1	4	5	3	2	2	-1	0	5	11	12	11	6	6
44	0	2	2	0	-3	-6	-5	0	1	3	2	-1	-1	-1	0	1	4	7	6	5	4	-1	0	5	11	14	13	8	8
48	0	1	2	1	-2	-4	-4	0	1	3	3	1	1	0	0	1	4	7	7	7	4	0	0	4	11	13	13	8	8
52	0	1	2	2	-1	-2	-3	0	1	2	4	3	2	0	0	1	3	7	8	8	5	-1	0	3	10</				

N HEMISPHERE

(DENSITY)/(ZONAL MEAN DENSITY) - 1 (Z)

KN LAT=	LONGITUDE 180 DEG								LONGITUDE 150 W								LONGITUDE 120 W								LONGITUDE 90 W							
	20	30	40	50	60	70	80		20	30	40	50	60	70	80		20	30	40	50	60	70	80		20	30	40	50	60	70	80	CODES
JANUARY																																
18	1	1	-1	-3	-4	-5	-3		0	0	0	-1	-1	-4	-3		0	0	1	0	-1	-3	-3		0	1	1	0	-1	-2	-2	
20	1	1	-1	-2	-2	-4	-3		0	1	0	0	0	-3	-3		0	0	1	1	0	-2	-2		0	1	1	0	-1	-2	-1	
24	1	1	1	2	3	3	1		0	1	2	3	4	3	2		0	1	1	2	2	1	1		0	0	1	0	-2	-1	0	
28	1	2	3	6	11	12	7		0	1	3	6	11	11	7		0	1	2	3	4	5	4		0	0	0	-1	-3	-2	0	
32	0	2	5	11	18	19	11		0	1	4	9	15	17	10		0	0	1	3	4	6	5		0	-1	-1	-3	-5	-4	-1	
36	0	1	6	14	22	23	12		0	1	3	9	17	18	11		0	-1	0	1	3	6	5		0	-1	-3	-5	-7	-6	-2	
40	0	1	5	14	23	23	13		0	0	2	8	15	17	10		0	-2	-2	-1	1	4	4		0	-2	-4	-7	-9	-7	-3	
44	0	0	3	11	20	21	12		-1	-1	-1	4	11	14	9		-1	-2	-4	-4	-1	1	2		0	-2	-5	-8	-9	-8	-4	
48	0	-1	1	8	14	18	12		-1	-2	-3	1	8	10	7		-1	-3	-5	-5	-3	-1	1		0	-2	-5	-8	-10	-9	-5	
52	-1	-1	0	5	13	15	10		-1	-3	-4	-1	5	7	6		-1	-3	-6	-7	-5	-3	0		0	-1	-5	-8	-10	-9	-6	
56	-1	-2	-2	3	10	12	9		-1	-3	-5	-3	2	5	5		-1	-3	-7	-8	-6	-4	-1		0	-1	-5	-9	-10	-9	-6	
60	-1	-2	-2	2	8	10	8		-1	-4	-6	-5	-1	3	5		-1	-3	-7	-9	-7	-4	-1		0	-1	-5	-8	-10	-9	-6	
64	-1	-2	-2	0	5	7	7		-1	-4	-5	-6	-2	2	4		-1	-3	-6	-9	-7	-4	-1		0	-1	-4	-7	-8	-7	-5	
68	-1	-2	-2	-1	3	6	5		-1	-3	-5	-5	-2	2	3		-1	-3	-6	-7	-6	-3	-1		0	0	-4	-5	-6	-6	-4	
72	-1	-2	-2	-1	2	5	4		-1	-3	-4	-5	-2	2	2		0	-2	-5	-6	-4	-2	-1		1	0	-3	-4	-4	-4	-3	
76	-1	-2	-2	0	2	5	4		-1	-3	-4	-4	-1	3	2		0	-2	-5	-5	-3	0	0		1	0	-3	-3	-2	-2	-2	
80	-1	-2	-2	0	3	5	4		-1	-2	-4	-2	0	3	2		0	-1	-4	-3	-1	1	0		1	0	-3	-2	-1	-1	-1	

FEBRUARY

18	2	1	0	-1	-2	-1	0		1	0	1	0	-1	-1	-2		0	0	1	0	-1	-2	-3		-1	0	1	-1	-1	-3	-3	
20	2	1	1	0	-1	-1	0		2	1	1	1	0	-1	-2		0	0	0	0	0	-2	-3		-2	0	0	-1	0	-2	-3	
24	1	0	0	1	3	3	1		0	1	1	2	5	3	2		0	1	2	2	3	1	1		0	1	2	1	0	-1	0	
28	0	1	2	4	7	8	4		1	1	2	5	9	9	6		1	0	1	3	5	6	5		0	0	0	1	0	1	2	
32	0	2	4	8	12	12	7		0	1	4	8	13	14	8		1	0	1	4	6	8	6		0	-1	-1	-1	0	1	2	
36	0	1	3	9	16	15	9		0	1	3	8	15	15	8		0	0	1	3	6	8	5		0	-1	-1	-1	-3	1	2	
40	0	0	3	8	16	15	9		0	0	2	6	13	14	8		0	0	0	2	4	7	4		0	0	-2	-2	-3	0	1	
44	0	1	1	6	13	13	7		0	0	1	5	11	10	6		-1	0	1	1	3	4	4		0	-1	-1	-3	-4	-1	1	
48	0	0	1	5	11	11	7		0	0	0	3	7	8	5		0	-1	-1	0	0	2	2		0	-1	-2	-4	-5	-2	0	
52	0	0	-1	4	10	10	7		0	0	-1	2	6	6	4		0	0	-1	-1	-1	1	1		0	-1	-1	-5	-6	-4	-1	
56	0	-1	0	4	8	8	6		0	-1	-1	1	4	4	3		0	-1	-2	-2	-2	-1	1		0	-1	-3	-5	-7	-5	-1	
60	0	-1	-1	3	7	6	6		0	-1	-2	1	2	2	3		-1	-1	-2	-3	-3	-2	0		0	-1	-2	-6	-7	-5	-2	
64	0	-1	-1	2	5	5	5		0	-1	-1	0	1	1	2		0	-2	-2	-3	-4	-3	0		0	-1	-3	-5	-7	-5	-1	
68	0	-1	-1	1	3	3	4		0	0	-1	0	0	0	2		0	-1	-1	-2	-4	-2	0		-1	-1	-2	-5	-6	-4	-2	
72	0	0	-1	1	2	2	3		0	0	0	0	0	-1	1		0	0	0	-1	-3	-2	0		0	-1	-1	-4	-5	-3	-1	
76	0	0	0	0	1	1	3		0	0	0	1	0	0	1		0	0	0	-1	-3	-1	0		0	-1	-2	-3	-3	-1	-1	
80	0	0	-1	0	1	0	1		1	1	0	1	1	-1	0		0	1	1	0	-1	-1	0		0	-1	0	-2	-3	0	0	

MARCH

18	1	1	-1	-2	-1	0	0		0	1	0	0	1	1	0		0	0	1	0	-1	-1	0		-1	0	0	-1	-3	-3	-1	
20	1	1	-1	-1	0	1	1		0	1	1	0	1	2	1		0	0	1	0	0	0	0		-1	0	0	-1	-3	-2	-1	
24	1	1	1	1	3	4	3		0	1	2	3	4	5	4		0	1	2	2	2	3	2		0	0	1	0	0	0	1	
28	1	1	2	4	7	8	6		1	1	3	5	8	9	6		0	1	2	4	6	7	5		0	0	1	2	3	3	2	
32	0	1	3	7	11	12	7		0	1	3	7	12	13	8		0	1	2	5	9	10	7		0	0	0	2	4	5	3	
36	0	1	3	8	12	13	8		0	1	2	7	13	14	9		0	0	1	5	9	10	7		0	0	-1	1	4	5	4	
40	0	0	2	7	12	12	8		0	0	1	6	11	13	9		0	0	0	3	7	9	7		0	-1	-1	0	2	3	3	
44	0	0	1	5	9	10	6		0	0	0	4	9	10	7		0	-1	-1	1	5	6	5		0	-1	-2	-2	-1	1	2	
48	0	-1	0	3	7	8	5		0	-1	-1	2	6	7	5		0	-1	-2	0	2	4	3		0	-1	-3	-3	-3	-1	0	
52	0	-1	-1	2	6	7	4		0	-1	-1	1	4	5	4		0	-1	-2	-2	0	2	2		0	-1	-3	-4	-4	-3	0	
56	-1	-1	-1	1	5	5	3		-1	-1	-2	-1	2	4	3		0	-1	-3	-3	-1	0	1		0	-1	-3	-5	-5	-4	-1	
60	-1	-1	-2	0	3	3	2		-1	-2	-2	-2	0	2	2		0	-2	-3	-4	-3	-1	1		0	-1	-3	-5	-5	-4	-1	
64	0	-1	-2	-1	0	1	1		-1	-2	-3	-3	-2	0	1		0	-2	-3	-4	-4	-2	0		0	-1	-3	-5	-5	-4	-1	
68	0	-1	-2	-2	-1	0	0		0	-2	-3	-3	-3	-1	0		0	-2	-3	-4	-3	-2	0		0	-1	-3	-4	-4	-3	-1	
72	0	-1	-3	-3	-3	-2	-1		0	-1	-3	-3	-3	-2	0		0	-1	-2	-3	-3	-2	0		0	-1	-2	-3	-2	-2	0	
76	0	-1	-3	-3	-3	-2	-2		0	-1	-3	-3	-3	-2	0		0	-1	-2	-2	-2	-1	0		0	-1	-2	-2	-2	-1	0	
80	0	-1	-3	-3	-3	-3	-2		0	-1	-2	-2	-2	-1	0		0	-1	-2	-2	-1	-1	1		0	-1	-1	-1	-1	-1	1	

APRIL

18	0	1	0	-1	-1	0	0	0	1	1	1	1	1	0	0	0	1	2	2	1	0	0	0	1	2	1	1	0
20	0	1	0	-1	-1	0	0	0	1	1	1	1	1	0	0	0	1	2	2	1	0	0	0	1	2	1	1	0
24	0	1	1	0	0	0	0	0	1	1	2	2	1	1	0	0	1	2	2	1	0	0	0	1	2	2	1	0
28	0	1	1	1	1	1	1	0	1	2	2	2	2	1	0	0	1	2	2	2	1	0	0	0	1	1	1	0
32	0	1	1	2	2	1	1	0	1	1	3	3	2	1	0	0	1	2	2	2	1	0	0	0	1	1	1	1
36	0	0	1	2	2	2	1	0	1	1	2	3	2	1	0	1	1	1	2	2	1	0	0	0	0	1	1	1
40	0	0	0	1	2	2	1	1	1	1	1	2	2	1	0	1	0	1	1	2	1	0	0	0	0	1	1	1
44	0	0	0	0	1	2	1	1	1	0	0	1	2	1	0	1	0	0	1	1	1	0	0	0	0	0	0	0
48	1	0	0	0	1	1	1	1	1	0	0	1	1	1	0	1	0	0	0	1	0	0	0	0	0	0	0	0
52	1	0	-1	-1	0	1	1	1	1	0	-1	0	1	1	0	1	0	0	0	1	0	0	0	0	0	0	0	0
56	1	0	-1	-1	0	1	1	1	1	0	-1	0	1	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0
60	1	1	0	-1	0	1	1	1	1	0	0	0	1	1	1	1	0	0	0	1	0	0	0	0	0	0	0	0
64	1	1	0	0	0	1	1	1	1	0	0	1	1	1	1	0	0	0	1	1	1	0	0	0	0	0	0	0
68	1	1	0	0	1	1	1	1	1	1	1	0	1	1	1	1	0	1	0	1	1	1	0	0	1	0	0	1
72	1	1	0	1	1	1	0	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	0	0	1	0	0	1
76	1	0	0	1	1	1	0	1	1	1	1	1	1	0	1	1	1	0	0	1	1	1	0	0	1	0	0	1
80	1	0	0	1	1	1	0	1	1	1	1	1	1	0	1	1	1	0	0	1	1	1	0	1	1	0	0	0

N HEMISPHERE

(DENSITY)/(ZONAL MEAN DENSITY) - 1 (X)

KN LAT=	LONGITUDE 60 W							LONGITUDE 30 W							LONGITUDE 0 DEG							LONGITUDE 30 E							80DEG
	20	30	40	50	60	70	80	20	30	40	50	60	70	80	20	30	40	50	60	70	80	20	30	40	50	60	70	80	
JANUARY																													
18	0	1	2	0	-1	1	0	-1	0	2	2	2	4	2	-1	-1	2	4	6	6	4	-1	-2	1	4	7	7	4	4
20	0	1	2	0	-1	0	0	-1	0	2	2	2	3	2	-1	-1	1	3	5	6	4	-1	-2	0	4	6	6	4	4
24	0	0	0	-1	-3	-2	-1	-1	-1	0	0	0	0	0	-1	-1	0	1	3	3	1	-1	-1	-1	1	3	2	1	1
28	0	-1	-1	-3	-6	-6	-3	0	-1	-1	-2	-4	-5	-3	0	-1	-1	-1	-2	-3	-3	0	-1	-2	-2	-3	-4	-4	-4
32	0	-1	-2	-5	-9	-9	-5	0	-1	-2	-4	-7	-9	-6	0	0	-2	-3	-5	-7	-6	0	0	-2	-5	-7	-8	-6	-6
36	0	-1	-3	-7	-11	-11	-6	0	0	-2	-5	-9	-11	-8	0	0	-1	-4	-8	-10	-8	0	0	-2	-6	-9	-11	-8	-8
40	0	-1	-3	-7	-12	-12	-7	1	1	-1	-5	-10	-12	-9	1	1	0	-4	-9	-11	-9	0	1	-1	-5	-10	-11	-8	-8
44	0	0	-2	-7	-12	-12	-8	1	2	1	-4	-10	-13	-9	1	2	2	-2	-9	-11	-9	0	1	1	-3	-8	-10	-8	-8
48	1	1	-1	-6	-11	-12	-8	1	2	2	-3	-9	-12	-9	1	3	3	-1	-7	-10	-8	0	1	2	-1	-6	-8	-6	-6
52	1	1	-1	-6	-11	-12	-9	1	3	3	-2	-8	-11	-9	1	3	4	1	-5	-9	-7	0	2	3	1	-4	-6	-5	-5
56	1	1	0	-5	-10	-11	-9	1	3	4	0	-7	-10	-8	1	3	5	2	-4	-7	-6	0	2	3	2	-2	-4	-3	-3
60	1	2	0	-4	-8	-10	-8	1	3	4	1	-5	-8	-7	1	3	5	3	-3	-6	-5	0	1	3	2	-1	-3	-2	-2
64	1	2	0	-2	-6	-8	-7	1	3	4	2	-3	-7	-6	1	2	5	3	-2	-4	-4	0	1	3	2	-1	-2	-2	-2
68	1	2	0	-1	-4	-6	-5	1	3	4	2	-2	-5	-5	0	2	4	3	-1	-3	-3	0	1	3	2	-1	-1	-2	-2
72	1	2	0	0	-2	-5	-4	1	2	3	2	-1	-4	-4	0	1	4	2	-1	-3	-3	0	0	3	1	-2	-2	-2	-2
76	1	2	0	0	-1	-3	-3	1	2	3	2	-1	-3	-3	0	1	4	2	-2	-3	-3	0	0	3	0	-3	-2	-2	-2
80	1	2	1	0	-1	-2	-2	1	2	4	2	-1	-3	-2	0	2	4	1	-3	-3	-3	0	1	3	0	-3	-3	-3	-3
FEBRUARY																													
18	-1	0	1	0	0	-2	0	-1	0	1	2	1	1	3	0	0	2	4	2	4	4	0	-1	1	3	3	5	2	2
20	-2	0	1	0	0	-2	0	-1	0	2	2	1	1	3	0	0	2	4	2	4	4	0	-1	1	3	3	4	2	2
24	0	0	1	1	-2	-1	0	0	-1	0	1	0	1	0	-1	-1	0	2	3	2	1	-1	-1	-1	1	3	1	0	0
28	-1	0	0	0	-2	-2	0	-1	0	0	0	0	-1	-2	-1	0	0	0	1	-1	-3	0	-1	-1	-1	-1	-3	-3	-3
32	0	-1	-2	-3	-3	-3	-1	-1	0	-1	-2	-2	-4	-3	-1	0	0	-1	-3	-4	-4	0	0	-1	-3	-6	-6	-5	-5
36	0	-1	-2	-4	-6	-4	-1	0	-1	-2	-4	-4	-5	-3	0	0	-2	-3	-3	-6	-5	0	0	-1	-4	-6	-9	-7	-7
40	0	0	-3	-4	-6	-5	-1	0	-1	-2	-5	-6	-6	-4	0	-1	-1	-4	-6	-8	-6	0	0	-1	-4	-7	-9	-8	-8
44	0	-1	-2	-5	-7	-5	-2	0	-1	-3	-6	-8	-7	-5	0	0	-2	-4	-6	-8	-7	0	1	0	-3	-6	-9	-8	-8
48	0	-1	-2	-6	-8	-6	-2	0	0	-2	-6	-8	-8	-5	0	0	-1	-3	-6	-8	-7	0	1	1	-1	-5	-8	-7	-7
52	0	-1	-2	-6	-8	-7	-3	0	0	-2	-6	-8	-8	-5	0	1	-1	-3	-6	-8	-6	0	1	1	0	-4	-6	-6	-6
56	0	0	-2	-7	-9	-7	-3	0	1	-1	-6	-8	-8	-4	0	1	1	-3	-5	-7	-6	0	1	2	0	-3	-5	-6	-6
60	0	-1	-3	-7	-8	-7	-3	1	0	-2	-6	-7	-7	-4	1	1	-1	-3	-4	-6	-5	0	2	2	1	-1	-3	-5	-5
64	0	-1	-3	-6	-7	-5	-2	0	0	-2	-5	-5	-5	-3	0	1	0	-2	-2	-4	-4	1	2	2	2	1	-2	-4	-4
68	0	-2	-3	-5	-5	-4	-2	0	-1	-3	-4	-3	-3	-2	1	1	-1	0	0	-2	-3	1	2	2	3	2	-1	-3	-3
72	-1	-2	-3	-4	-4	-2	-1	0	-1	-3	-3	-1	0	-1	0	0	-1	0	2	0	-2	1	2	2	3	3	0	-3	-3
76	-1	-2	-3	-3	-1	0	-1	0	-1	-2	-2	1	1	0	0	0	0	1	3	1	-1	1	2	3	3	3	1	-2	-2
80	0	-2	-2	-3	-1	2	1	0	-2	-3	-1	2	3	1	0	0	-1	2	5	2	-1	0	2	2	3	3	0	-2	-2
MARCH																													
18	-1	0	0	-1	-3	-2	-1	-1	-1	0	1	1	1	1	-1	-1	1	4	6	5	2	-1	-1	2	6	7	5	2	2
20	-1	0	0	-1	-2	-2	0	-1	-1	0	1	1	1	1	-1	-1	1	4	5	4	2	-1	-1	1	5	6	4	1	1
24	-1	0	0	0	-1	-1	0	-1	-1	0	1	1	0	0	-1	-1	0	2	3	1	-1	-1	-1	0	2	2	0	-2	-2
28	0	0	0	0	0	0	0	0	-1	-1	0	0	-1	-2	0	-1	-1	-1	-2	-3	-3	0	-1	-2	-3	-5	-6	-5	-5
32	0	0	-1	0	0	0	0	0	-1	-1	-2	-2	-3	-3	0	0	-2	-4	-6	-7	-6	0	-1	-2	-6	-9	-10	-7	-7
36	0	-1	-1	-1	-1	-1	0	0	0	-2	-3	-5	-5	-4	0	0	-2	-5	-8	-9	-8	0	0	-2	-6	-11	-12	-8	-8
40	0	-1	-2	-3	-3	-2	-1	0	0	-2	-4	-6	-6	-4	0	1	-1	-5	-8	-9	-6	0	1	-1	-5	-9	-10	-7	-7
44	0	-1	-2	-4	-5	-4	-1	0	0	-2	-5	-7	-6	-3	0	1	0	-4	-7	-7	-4	0	1	1	-2	-6	-7	-5	-5
48	0	-1	-3	-5	-6	-5	-2	0	0	-1	-5	-7	-6	-3	0	1	1	-3	-6	-6	-3	0	2	2	0	-4	-5	-3	-3
52	0	0	-3	-6	-7	-6	-2	1	1	-1	-5	-7	-6	-3	1	1	1	-2	-5	-5	-3	0	2	3	1	-2	-3	-2	-2
56	1	0	-3	-6	-7	-6	-2	1	1	-1	-4	-7	-6	-3	1	2	1	-1	-4	-4	-2	0	2	3	3	0	-2	-1	-1
60	1	0	-2	-5	-6	-5	-2	1	1	-1	-4	-5	-5	-2	1	2	2	0	-2	-3	-1	0	2	4	4	1	0	0	0
64	1	0	-2	-4	-5	-4	-2	1	1	0	-2	-4	-3	-1	1	2	2	1	-1	-1	0	0	2	4	4	2	2	1	1
68	0	0	-2	-3	-3	-3	-1	1	1	0	-1	-2	-1	0	1	2	2	1	1	1	1	0	2	4	4	3	3	2	2
72	0	0	-1	-2	-2	-1	0	1	1	0	-1	0	0	1	1	2	2	2	2	3	2	0	2	4	4	4	4	3	3
76	0	0	-1	-1	-1	0	1	0	0	1	0	0	1	1	0	1	2	2	2	3	3	0	2	4	4	4	4	3	3
80	0	0	-1	-1	0	0	1	0	0	1	0	1	2	2	0	1	3	2	3	4	3	0	2	4	4	4	4	3	3
APRIL																													
18	0	-1	0	1	1	1	0	-1	-1	-1	1	2	1	0	-1	-1	-1	1	2	1	0	0	-1	-1	1	1	1	0	0
20	0	-1	0	1	1	1	0	-1	-1	-1	1	1	1	0	-1	-1	-1	0	2	1	0	0	-1	-1	0	1	0	0	0
24	0	-1	0	1	1	1	0	-1	-1	-1	0	1	1	0	0	-1	-1	0	1	0	0	0	-1	-1	0	0	0	0	0
28	0	0	-1	0	0	0	0	0	-1	-1	-1	0	0	0	0	-1	-1	-1	-1	0	0	0	0	-1	-1	-1	-1	0	0
32	0	0	-1	-1	0	0	0	0	0	-1	-1	-1	-1	0	0	0	-1	-1	-2	-1	-1	0	0	0	-1	-2	-2	-1	-1
36	0	0	0	-1	-1	0	0	0	0	0	-1	-2	-2	-1	0	0	0	-1	-2	-2	-1	0	0	0	-1	-2	-2	-1	-1
40	0	0	0	-1	-1	-1	0	0	0	0	-1	-2	-2	-1	0	0	0	-1	-2	-2	-1	0	0	0	-1	-2	-2	-1	-1
44	0	0	0	0	-1	-1	0	0	0	1	0	-1	-2	-1	0	0	1	0	-1	-2	-1	0	0	0	0	-1	-2	-1	-1
48	0	0	0	0	-1	-1	0	0	0	1	0	-1	-2	-1	0	0	1	1	-1	-2	-1	0	0	1	1	0	-1	-1	-1
52	0	0	1	0	-1	-1	-1	0	0	1	1	-1	-1	-1	0	0	1	1	0	-1	-1	0	0	1					

N HEMISPHERE

(DENSITY)/(ZONAL MEAN DENSITY) - 1 (Z)

KN LAT=	LONGITUDE 60 E							LONGITUDE 90 E							LONGITUDE 120 E							LONGITUDE 150 E							BOBES
	20	30	40	50	60	70	80	20	30	40	50	60	70	80	20	30	40	50	60	70	80	20	30	40	50	60	70	80	
JANUARY																													
18	-1	-1	0	2	4	5	3	0	-1	-2	-1	-1	0	1	1	1	-2	-4	-5	-3	-1	1	1	-2	-4	-6	-5	-3	
20	-1	-1	-1	2	3	4	3	0	-1	-2	-2	-2	-1	0	1	1	-2	-4	-5	-4	-2	1	1	-2	-4	-5	-5	-3	
24	0	-1	-1	-1	-1	-1	-1	0	-1	-2	-3	-4	-4	-2	1	0	-1	-3	-4	-3	-2	1	1	0	-1	-1	0	0	
28	0	-1	-2	-4	-6	-7	-4	0	0	-2	-4	-6	-6	-3	0	0	0	-1	-2	-1	0	1	1	2	3	6	6	4	
32	0	-1	-3	-6	-9	-10	-6	0	0	-2	-5	-7	-7	-4	0	0	1	1	1	1	1	0	1	4	7	12	12	7	
36	0	0	-2	-7	-10	-11	-6	0	0	-1	-4	-7	-6	-3	0	0	2	3	4	3	3	0	1	5	10	16	14	9	
40	0	0	-2	-6	-9	-10	-6	0	0	-1	-3	-5	-4	-2	0	0	2	4	6	6	4	0	1	5	12	18	18	10	
44	0	0	0	-3	-7	-7	-5	0	0	0	0	-1	-1	0	0	0	2	5	8	9	6	0	1	4	11	18	18	11	
48	0	0	0	-1	-4	-5	-3	0	0	0	1	1	1	2	0	0	2	6	9	10	7	0	0	3	9	14	18	11	
52	0	0	1	1	-1	-3	-2	0	0	1	2	3	3	3	0	0	2	6	9	11	7	0	0	2	8	14	14	11	
56	0	0	2	2	0	-1	0	0	0	1	3	4	4	3	0	0	2	4	10	11	7	0	0	1	7	13	14	9	
60	0	0	2	2	1	0	0	0	0	2	3	5	5	3	0	1	2	6	10	10	6	0	0	1	6	12	12	8	
64	0	0	2	2	1	1	0	0	1	2	3	5	4	2	0	1	2	6	9	8	5	0	0	1	5	10	10	7	
68	0	0	2	1	1	1	0	0	1	1	3	4	3	2	0	1	1	5	8	6	4	0	0	1	4	8	7	4	
72	0	0	1	1	0	0	-1	0	1	1	2	3	2	1	0	1	1	4	6	4	3	-1	-1	0	3	6	6	5	
76	0	0	1	0	-1	-1	-1	0	0	1	2	2	0	1	0	0	1	3	5	3	3	-1	-1	0	3	5	5	4	
80	0	0	1	-1	-2	-3	-2	0	0	0	1	1	-1	0	0	0	0	3	4	2	2	-1	-1	0	2	5	4	4	
FEBRUARY																													
18	-1	-1	-1	1	2	3	0	-1	0	-2	-3	0	0	-1	0	0	-2	-4	-2	-2	0	2	1	-1	-3	-3	-2	1	
20	0	-1	-2	0	2	2	-1	-1	-1	-3	-3	-1	-1	-1	0	0	-2	-4	-3	-2	0	1	1	0	-3	-3	-2	1	
24	-1	0	-1	-1	-2	-2	-1	0	0	-1	-3	-5	-4	-2	1	0	-1	-3	-5	-3	-2	1	0	-1	-2	-2	0	0	
28	1	-1	-2	-4	-6	-7	-4	1	-1	-2	-5	-9	-8	-4	0	0	-1	-3	-6	-4	-2	0	1	1	1	1	1	3	
32	1	-1	-2	-5	-9	-9	-6	1	-1	-3	-6	-9	-9	-5	0	0	-1	-3	-4	-4	-2	0	1	2	3	5	4	3	
36	0	0	-1	-5	-10	-11	-8	0	0	-1	-4	-10	-9	-5	0	0	1	0	-3	-2	0	0	1	2	5	8	7	5	
40	0	0	-1	-4	-8	-9	-7	0	1	0	-2	-6	-7	-4	0	1	1	2	0	0	2	0	0	3	7	10	9	7	
44	0	0	1	-1	-5	-8	-6	0	0	2	1	-3	-3	-1	0	0	2	3	3	3	3	1	0	1	6	9	10	7	
48	0	0	2	1	-3	-5	-5	0	0	2	2	0	0	-1	0	0	2	4	6	6	4	0	0	1	5	11	10	7	
52	0	1	3	2	-1	-3	-4	0	0	3	4	3	2	0	0	0	2	4	7	7	5	0	0	0	5	10	10	8	
56	0	1	2	3	1	-1	-3	0	0	2	4	4	4	1	0	0	2	5	8	8	5	0	0	1	5	9	9	7	
60	0	2	4	4	2	0	-3	0	1	4	5	5	4	1	0	0	2	5	7	8	5	0	-1	0	5	8	9	7	
64	1	2	4	4	3	1	-2	0	1	3	5	4	4	1	0	1	2	4	5	6	5	0	0	0	3	6	7	4	
68	0	2	4	4	2	1	-2	0	1	4	4	4	3	3	0	0	1	3	3	4	4	0	-1	0	2	4	5	5	
72	1	2	4	4	2	0	-2	0	1	3	3	0	1	0	0	0	1	1	0	2	3	0	-1	-1	0	2	3	4	
76	0	2	3	3	0	-1	-2	0	1	2	1	-1	-1	-1	0	0	0	-1	-1	0	1	0	0	-1	-1	1	1	3	
80	0	2	4	2	0	-2	-2	0	0	2	0	-3	-2	-1	0	-1	0	-2	-3	-1	1	0	-1	-2	-1	-1	0	2	
MARCH																													
18	0	0	1	3	3	2	0	0	0	-1	-1	-2	-2	-2	1	1	-2	-4	-5	-4	-2	1	1	-2	-4	-3	-2	-1	
20	0	0	1	3	2	1	0	0	0	-1	-1	-3	-3	-2	1	1	-2	-4	-5	-4	-2	1	1	-2	-4	-3	-2	-1	
24	0	-1	-1	-1	-2	-4	-3	0	0	-2	-3	-5	-4	-3	1	0	-2	-4	-5	-4	-2	1	1	-1	-2	-1	0	1	
28	0	-1	-2	-5	-8	-8	-6	0	-1	-2	-5	-8	-8	-4	0	0	-1	-3	-4	-4	-1	0	1	1	1	2	3	3	
32	0	-1	-2	-7	-11	-12	-7	0	-1	-2	-5	-9	-9	-5	0	0	0	-1	-3	-3	-1	0	1	2	3	5	5	4	
36	0	0	-2	-6	-11	-12	-8	0	0	-1	-4	-8	-9	-5	0	0	1	0	-2	-2	-1	0	0	2	5	7	6	4	
40	0	0	0	-4	-8	-10	-7	0	0	0	-2	-5	-7	-5	0	0	1	2	1	0	-1	0	0	2	5	7	7	4	
44	0	1	2	-1	-4	-6	-5	0	0	1	1	-2	-3	-3	0	0	1	3	2	1	0	0	0	1	4	7	6	3	
48	0	1	3	2	-1	-3	-3	0	1	2	3	1	-1	-2	0	0	1	3	4	2	0	0	-1	0	3	6	6	3	
52	0	1	3	4	1	-1	-2	0	1	3	4	3	1	-1	0	0	1	4	5	3	1	0	-1	0	3	6	6	3	
56	0	1	4	5	3	1	-1	0	0	3	5	4	2	0	0	0	1	4	5	4	1	-1	-1	0	3	6	5	2	
60	0	2	4	6	4	2	0	0	0	3	6	5	3	0	-1	1	4	5	4	0	0	-1	-1	0	2	4	4	1	
64	0	2	4	6	5	3	1	0	1	3	5	5	3	0	0	0	1	3	4	2	-1	0	-1	-1	1	2	2	0	
68	0	2	4	6	5	4	1	0	1	3	5	5	2	-1	0	0	1	2	3	1	-2	0	-1	-1	0	0	0	-1	
72	0	2	4	5	5	3	1	0	1	3	4	4	1	-1	0	0	0	1	1	-1	-3	0	-1	-2	-1	-1	-2	-3	
76	0	1	4	4	4	3	1	0	1	2	3	2	0	-1	0	0	0	0	0	-2	-3	0	-1	-2	-2	-2	-3	-3	
80	0	1	4	4	4	2	1	0	0	2	2	1	-1	-1	-1	0	-1	0	-1	0	-1	-3	-1	-1	-3	-2	-3	-4	
APRIL																													
18	0	0	0	0	-1	-1	0	1	1	0	-2	-2	-2	0	1	1	0	-3	-3	-2	0	1	1	0	-2	-3	-1	0	
20	0	0	0	0	-1	-1	0	1	1	0	-2	-3	-2	-1	1	1	0	-2	-3	-2	0	1	1	0	-2	-2	-1	0	
24	0	0	-1	-1	-1	-1	0	0	0	0	-2	-2	-2	-1	0	1	0	-2	-3	-2	0	0	1	0	-1	-2	-1	0	
28	0	0	-1	-1	-2	-1	-1	0	0	-1	-1	-2	-2	-1	0	0	0	-1	-2	-1	0	0	0	0	0	0	0	0	
32	0	0	-1	-1	-2	-1	-1	0	0	-1	-1	-2	-1	-1	0	0	0	0	0	0	0	0	0	0	1	1	1	0	
36	0	0	-1	-1	-2	-1	-1	0	-1	-1	-1	-1	-1	0	0	-1	-1	0	0	0	0	0	0	0	1	2	1	1	
40	0	0	0	-1	-1	-1	-1	0	-1	-1	-1	0	0	0	0	-1	-1	0	1	1	0	0	0	0	1	2	-1	1	
44	0	0	0	0	-1	-1	-1	0	-1	-1	0	0	0	0	0	-1	-1	0	1	1	1	0	0	-1	0	1	1	1	
48	0	0	0	0	0	0	0	0	-1	-1	0	0	0	0	0	-1	-1	0	0	1	1	0	0	-1	0	1	1	1	
52	0	0	0	0	0	0	0	0	-1	-1	0	0	0	0	0	-1	-1	-1	0	1	1	0	0	-1	-1	0	1	1	
56	-1	-1	0	0	0	0	0	0	-1	-1	0	0	0	0	0	-1	-1	-1	0	1	1	0	0	-1	-1	0	0	1	
60	-1	-1	0	0	0	0	0	-1	-1	-1	-1	-1	0	0	0														

Appendix B

Calculation of Monthly Mean Values

1. Zonal Mean Values

The following formulae hold for latitude ϕ in the range 80° S to 80° N and height z (km) in the range 17.5 to 80 km.

Pressure scale height, H_{ref} (km)

$$H_{\text{ref}}^{-1} = \sum_{n=1}^9 \sum_{s=1}^9 c_{ns} \xi^{s-1} \zeta^{n-1} \quad (\text{B1})$$

where

$$\xi = \sin \phi$$

$$\zeta = (z - 48.75)/31.25$$

and c_{ns} (km^{-1}) are tabulated below.

Pressure, p_{ref} (mb)

$$p_{\text{ref}} = \exp \left(-31.25 \sum_{n=0}^9 \sum_{s=1}^9 c_{ns} \xi^{s-1} \zeta^{n/n} \right) \quad (\text{B2})$$

where ζ^n/n denotes unity for $n = 0$ and c_{ns} (km^{-1}) are tabulated below.

Geostrophic W-E wind, u (m s^{-1})

$$u = (31.25/2\omega r_E) g H_{\text{ref}} (1 - \xi^2)^{1/2} \sum_{n=0}^9 \sum_{s=2}^9 c_{ns} (s-1) \xi^{s-3} \zeta^{n/n} \quad (\text{B3})$$

where ζ^n/n denotes unity for $n = 0$, c_{ns} (km^{-1}) are tabulated below and

$$\omega = 2\pi/86400 \quad (\text{s}^{-1})$$

$$r_E = 6378 \quad (\text{km})$$

H_{new} (km) is determined by Eq. (B1) and g by Eq. (2).

2. Values at Longitude λ

Temperature

$$T(\lambda) = T_{\text{ref}} + T_1 \cos(\lambda - \lambda_{T1}) + T_2 \cos(2\lambda - \lambda_{T2}) \quad (\text{B4})$$

where λ is longitude in degrees E. T_1 , T_2 are the wave 1 and 2 amplitudes tabulated below in units of 0.1 K and λ_{T1} , λ_{T2} are the wave 1 and 2 phase tabulated in degrees.

Pressure

$$p(\lambda)/p_{\text{ref}} = 1 + p_1 \cos(\lambda - \lambda_{p1}) + p_2 \cos(2\lambda - \lambda_{p2}) \quad (\text{B5})$$

p_1 , p_2 are the wave 1 and 2 amplitudes of the relative pressure variation tabulated below in units of 0.1 percent and λ_{p1} , λ_{p2} are the wave 1 and 2 phases.

Density

$$\rho(\lambda)/\rho_{\text{ref}} = 1 + \rho_1 \cos(\lambda - \lambda_{\rho1}) + \rho_2 \cos(2\lambda - \lambda_{\rho2}) \quad (\text{B6})$$

ρ_1 , ρ_2 are the wave 1 and 2 amplitudes of the relative density variation tabulated in units of 0.1 percent and $\lambda_{\rho1}$, $\lambda_{\rho2}$ are the wave 1 and 2 phases.

COEFFICIENTS (C01,...,C91),..., (C09,...,C99) IN RELATIONS FOR ATMOSPHERIC STRUCTURE
18 TO 80 KM ALTITUDE AND 80S TO 80N LATITUDE

JANUARY

C01...C91 = 0.00127237 0.12479098 -0.00915463 0.07046135 0.02833854 -0.03978434 -0.00920329 0.04349079 -0.00957413 -0.03011445
C02...C92 = -0.00039723 -0.00166199 0.00087437 0.01594097 0.00821546 -0.10152928 -0.03966024 0.21846749 0.03385427 -0.13176845
C03...C93 = -0.00643429 -0.00239059 0.05164913 0.14971590 -0.05549771 -0.47851939 -0.13664673 0.41422124 0.13346669 -0.09617235
C04...C94 = 0.01852822 0.01810185 0.00810712 0.10125133 -0.21279876 -0.55632576 0.42027294 0.52498325 -0.23046573 -0.11475379
C05...C95 = 0.01641865 0.02499576 -0.05114178 -0.18678209 -0.11082975 0.31246387 0.75341293 0.04323535 -0.51266842 -0.18722891
C06...C96 = -0.01571712 -0.00459104 0.00473976 -0.19876094 0.30579207 1.04915136 -0.65387143 -1.29764689 0.30770603 0.46293588
C07...C97 = -0.02406220 -0.03681126 0.00817792 -0.06659145 0.21226191 0.57582153 -0.94694294 -1.10818756 0.63471368 0.63391933
C08...C98 = 0.00974671 -0.00410393 -0.01892014 0.05404688 -0.08003740 -0.28698525 0.18811209 0.40709009 -0.05885742 -0.15914147
C09...C99 = 0.01707979 0.01428778 -0.01247656 0.07724107 -0.03135764 -0.32648934 0.27510467 0.54190661 -0.20313416 -0.30102121

FEBRUARY

C01...C91 = 0.00012894 0.12243592 0.00019499 0.10392697 -0.00023390 -0.15999674 0.01438984 0.20857649 -0.01396673 -0.10549475
C02...C92 = -0.00141229 -0.00347502 0.00037884 0.03881233 0.05914240 -0.11433258 -0.17111889 0.14078088 0.10951755 -0.04506121
C03...C93 = -0.00342489 0.01796781 0.00417379 -0.16759134 0.11065485 0.49434841 -0.35469856 -0.74722423 0.23759515 0.38387265
C04...C94 = 0.01951205 0.01633231 0.01901042 -0.01555432 -0.44483856 -0.28830270 1.00791360 0.56659338 -0.56660753 -0.27358025
C05...C95 = 0.01903430 -0.03950688 0.08856051 0.87039480 -0.80421302 -2.62808290 1.86701597 3.19646671 -1.09562617 -1.38441837
C06...C96 = -0.01508991 0.00229450 -0.01977313 -0.08110399 0.51643227 0.79365021 -1.19544417 -1.56620985 0.62449026 0.80602944
C07...C97 = -0.02451486 0.05334016 -0.18536543 -1.40730240 1.27562950 4.17485061 -2.68802213 -4.79369699 1.52824944 1.99035178
C08...C98 = 0.00627710 -0.00964804 -0.02019190 0.03703240 -0.03555497 -0.34460804 0.17408385 0.80896456 -0.06913438 -0.45368033
C09...C99 = 0.01485877 -0.02734092 0.06447677 0.64379077 -0.48128394 -1.84626114 1.03658727 2.14012541 -0.59603967 -0.90328397

MARCH

C01...C91 = -0.00080776 0.12203323 0.00655305 0.11329748 -0.02425425 -0.19667329 0.05097343 0.25337050 -0.03378718 -0.12395027
C02...C92 = -0.00044088 -0.00205618 0.00137877 0.02947170 0.04663128 -0.05400213 -0.13292488 0.01977574 0.08215611 0.00188995
C03...C93 = 0.00561148 0.02590721 -0.03603813 -0.17785530 0.08847144 0.18775590 -0.16933858 -0.05338683 0.12887216 -0.00056084
C04...C94 = 0.00700481 0.01084017 0.01513183 -0.11818448 -0.36157045 -0.00454602 0.79785508 0.34192243 -0.43532107 -0.21167380
C05...C95 = -0.00908313 -0.07612779 0.14126449 0.66859006 -0.24083085 -0.16693069 0.34097601 -1.37681964 -0.22618851 0.98279385
C06...C96 = -0.00186864 -0.01228346 -0.02401127 0.14081859 0.38625071 0.29134477 -0.87198290 -1.05425764 0.46516088 0.59894216
C07...C97 = 0.01750279 0.10041130 -0.16408142 -0.81184440 0.00957324 -0.44833866 0.14918963 3.04579741 -0.04538030 -1.94630866
C08...C98 = -0.00299224 0.00396800 0.00335633 -0.03334290 -0.02735190 -0.31133125 0.11498604 0.79395949 -0.06147562 -0.43193203
C09...C99 = -0.00450531 -0.04265298 0.03171144 -0.30162356 0.24110628 0.45371336 -0.45337627 -1.67835398 0.21067721 1.00332953

APRIL

C01...C91 = -0.00116622 0.12305961 0.00749649 0.10346649 -0.00536721 -0.14193682 0.01173039 0.16309242 -0.01537173 -0.08098430
C02...C92 = -0.00008343 -0.00011653 0.00917619 0.01072846 -0.04242022 -0.04587496 0.06479146 0.05922321 -0.03417442 -0.02473953
C03...C93 = 0.00896627 0.01782204 -0.05758997 -0.00811735 -0.03045798 -0.67339677 0.20949084 1.26934501 -0.09589677 -0.61370555
C04...C94 = -0.00257903 -0.00242040 -0.00412287 -0.11211923 -0.06989626 0.40864075 0.14600924 -0.53845237 -0.05368211 0.25265049
C05...C95 = -0.01926704 -0.05890041 0.18872877 0.00818047 0.11826776 2.99741188 -0.83000142 -6.00991786 0.49252130 3.07057144
C06...C96 = -0.00703594 -0.01683680 0.00013628 0.14807389 -0.26379640 -0.28828273 -0.61225628 0.37182651 0.32439932 -0.21467979
C07...C97 = 0.04003606 0.09244453 -0.23367811 0.06376986 -0.41124255 -4.59633533 1.63317904 8.73835495 -0.97808261 -4.53644427
C08...C98 = 0.00308108 0.01723657 0.00359341 -0.02118246 -0.16261663 -0.19137674 0.42368779 0.27287682 -0.24801958 -0.08170430
C09...C99 = -0.01789149 -0.04597551 0.07424141 -0.05780825 0.35735914 2.21356777 -1.03111395 -4.15793362 0.59830937 2.07778070

MAY

C01...C91 = -0.00071913 0.12494165 0.00185339 0.08519050 0.03151923 -0.06618478 -0.03783072 0.05706879 0.00427655 -0.03345428
C02...C92 = 0.00026382 0.00204607 0.01036655 0.01093314 -0.08995171 -0.15337416 0.14935809 0.25318030 -0.07336078 -0.11492910
C03...C93 = 0.00191448 -0.00106845 -0.01395362 0.09090854 -0.22090545 -0.76210755 0.46213726 1.23933728 -0.20237507 -0.56242198
C04...C94 = -0.01557576 -0.03331493 -0.04288217 -0.08521011 0.35297362 1.20498591 -0.46908522 -1.98595693 0.19379546 0.93937313
C05...C95 = 0.01564324 0.02855988 0.05829613 -0.13241675 0.42734056 1.58553785 -0.92602014 -2.99748031 0.41280594 1.46121224
C06...C96 = -0.00128565 0.03779726 0.15207173 0.12169322 -0.50756570 -1.82348883 0.24950486 3.20025775 0.07174748 -1.58279850
C07...C97 = -0.00557294 -0.04581359 -0.15918181 0.04942364 -0.43036856 -1.17146542 1.13204534 2.36088004 -0.52724894 -1.12415710
C08...C98 = 0.00359743 -0.01122059 -0.11409346 -0.04040971 0.24427941 0.73022170 0.11600971 -1.40789059 -0.22646495 0.74463185
C09...C99 = -0.00096673 0.01865570 0.09780853 -0.00404587 0.21451462 0.32818353 -0.66992125 -0.59117133 0.34942693 0.22551370

JUNE

C01...C91 = 0.00003394 0.12628778 -0.00236408 0.08248728 0.04571378 -0.06194819 -0.04797169 0.04834259 0.00676956 -0.02423892
C02...C92 = 0.00173411 0.00261062 -0.00372617 0.02589862 -0.01514720 -0.19012890 0.03897617 0.24970922 -0.02563110 -0.09119494
C03...C93 = -0.00613848 -0.01133322 0.00980521 0.08274066 -0.10692758 -0.35229902 0.12771033 0.43696357 -0.01498052 -0.15380366
C04...C94 = -0.03241294 -0.03782454 0.05494111 -0.28955160 0.08433159 2.19716631 -0.27484072 -3.24955798 0.17454165 1.43643095
C05...C95 = 0.05788579 0.07390847 -0.11353503 0.11672472 0.09476942 -1.22329559 0.56824811 2.03987496 -0.53979620 -1.05398695
C06...C96 = 0.02279953 0.05062851 -0.02271090 0.51020604 -0.08177123 -4.07752555 0.11166930 6.46342031 -0.02337653 -3.02528585
C07...C97 = -0.07994139 -0.12714114 0.15747917 -0.55973097 -0.20345386 4.16803339 -0.83000562 -6.70304832 0.85182993 3.30871017
C08...C98 = -0.00965106 -0.02021606 -0.02345164 -0.24227751 0.01215134 2.02280383 0.20215194 -3.41130486 -0.18784095 1.47817099
C09...C99 = 0.03875462 0.06133862 -0.06650771 0.35511110 0.19452096 -2.55665461 0.12471461 4.20314990 -0.24961668 -2.10150334

COEFFICIENTS (C01,...,C91),..., (C09,...,C99) IN RELATIONS FOR ATMOSPHERIC STRUCTURE
18 TO 80 KM ALTITUDE AND 80S TO 80N LATITUDE

JULY

C01...C91	=	0.00068405	0.12629061	-0.00545789	0.08996370	0.03783371	-0.11362433	-0.02530848	0.13161175	-0.00356399	-0.06468435
C02...C92	=	0.00147042	0.00351398	-0.00482753	-0.00321652	-0.02839202	-0.04640022	0.10565427	0.04141741	-0.07646837	0.00138766
C03...C93	=	-0.00033313	-0.00538735	0.00790614	0.09787739	0.12919946	-0.26925988	-0.42029665	0.14749216	0.28501021	0.01891462
C04...C94	=	-0.02060886	-0.02889072	0.04954986	-0.28533491	0.14515269	2.04823266	-0.62277838	-3.06734220	0.43719990	1.37965870
C05...C95	=	0.02441003	0.04641651	-0.03958093	0.18612668	-0.64580102	-1.64229322	2.14566198	2.87724243	-1.41869359	-1.48512727
C06...C96	=	0.00341157	0.03545812	-0.08401840	0.67987949	0.10753604	-4.80716727	0.36648628	7.72324484	-0.33401237	-3.67313550
C07...C97	=	-0.02658502	-0.08977803	0.09338335	-0.94306815	0.40888905	5.80575766	-2.26803884	-9.00603488	1.72111773	4.30755449
C08...C98	=	-0.00194137	-0.01331467	0.04874555	-0.38990518	-0.29106991	2.80747015	0.37485301	-4.78104624	-0.17248014	2.37701053
C09...C99	=	0.01521754	0.04462508	-0.07789543	0.64679590	0.16275124	-3.87183597	0.37393433	6.05070967	-0.45535470	-2.91410931

AUGUST

C01...C91	=	0.00020765	0.12452320	-0.00134307	0.11146175	0.00714600	-0.21385775	0.01914237	0.28624417	-0.02209042	-0.13931134
C02...C92	=	0.00256568	0.00498126	-0.00776941	-0.02832102	-0.04921367	-0.01446019	0.17173187	0.08277720	-0.11618672	-0.04675842
C03...C93	=	0.00013836	0.00978497	-0.01158929	-0.09768893	0.13830930	0.37607289	-0.39758915	-0.72157661	0.26737419	0.40964352
C04...C94	=	-0.02534683	-0.03399716	0.06914031	-0.15437335	0.09274717	1.76427336	-0.61084692	-3.07141394	0.44217164	1.51433559
C05...C95	=	0.01889165	0.01728417	0.03915706	0.67961703	-0.50595655	-3.17897830	1.59331195	4.84051394	-1.07014118	-2.33654383
C06...C96	=	0.03255960	0.04189229	-0.18013238	0.59017307	0.42995584	-4.76603149	-0.03509835	8.35154233	-0.15181730	-4.21052924
C07...C97	=	-0.04229458	-0.06149179	0.04605318	-1.45672636	0.11460743	7.37500905	-1.34407290	-11.10312409	1.14473306	5.25951808
C08...C98	=	-0.02403269	-0.01221989	0.12813871	-0.43153783	-0.59475659	3.15477964	0.83461872	-5.70765729	-0.40311735	2.96490860
C09...C99	=	0.03397213	0.03252988	-0.09300808	0.85113063	0.37188544	-4.55222667	-0.15888443	7.12580943	-0.10832941	-3.46565950

SEPTEMBER

C01...C91	=	-0.00075569	0.12359979	0.00458944	0.11774632	-0.01144687	-0.23152286	0.04098052	0.30491991	-0.03270018	-0.14848656
C02...C92	=	0.00221174	0.00234098	-0.00784847	0.00811140	-0.03568975	-0.16395437	0.11941562	0.31108658	-0.07749447	-0.15736131
C03...C93	=	0.00361728	0.01466323	-0.02809760	-0.19812279	0.07948482	0.60683855	-0.24605349	-0.88856654	0.26033264	0.44298080
C04...C94	=	-0.01736203	-0.01379260	0.06314463	-0.23496071	0.08405606	1.93101178	-0.41559946	-3.32330764	0.27591079	1.63886637
C05...C95	=	0.01537040	-0.01589307	0.00554711	0.98118687	-0.01138370	-3.44366445	0.61528981	4.60747389	-0.58557994	-2.08984293
C06...C96	=	0.02278015	0.00394905	-0.14278923	0.66355643	0.30546128	-4.42813563	-0.24088508	7.61313508	0.06529357	-3.81644203
C07...C97	=	-0.03577625	0.01509790	0.15601354	-1.71582088	-0.67904311	6.60456783	0.15425224	-9.26964886	0.33427581	4.28966509
C08...C98	=	-0.01202828	0.01309453	0.08002234	-0.44255428	-0.41249016	2.71271623	0.77514264	-4.80358057	-0.42425054	2.47771972
C09...C99	=	0.02795766	-0.01248964	-0.15404241	0.89693706	0.73791074	-3.70439902	-0.81765939	5.58520129	0.23383764	-2.70431448

OCTOBER

C01...C91	=	-0.00117721	0.12371570	0.00612866	0.10517210	0.00328889	-0.15608968	0.00177648	0.18149246	-0.01216867	-0.08807129
C02...C92	=	0.00106321	0.00069037	-0.00821925	0.00369138	0.03969840	-0.04660451	-0.07622933	0.08538047	0.04339825	-0.04456247
C03...C93	=	0.00359981	0.01091406	-0.04108576	-0.06430606	-0.06175042	-0.30733534	0.17960621	0.74542642	-0.05177251	-0.30545599
C04...C94	=	-0.00115689	0.00046894	0.00987406	-0.04342122	0.03640101	0.47008279	-0.02201637	-0.08597804	-0.02325247	0.45332560
C05...C95	=	0.02216339	-0.02955054	0.06496234	0.50748692	0.19492301	0.38732229	-0.38370863	-2.33363523	0.08627280	1.44830073
C06...C96	=	0.00421558	0.00044696	0.02039282	0.10906787	-0.12634274	-1.02157725	0.00081266	1.99280674	0.08772014	-1.05438475
C07...C97	=	-0.04360555	0.05853854	0.00955413	-0.97833690	-0.52572345	0.36337118	0.80615382	1.97495592	-0.25205841	-1.43155635
C08...C98	=	0.00188648	0.00538463	-0.05290244	-0.04127226	0.09139104	0.48495008	0.14960018	-1.12282742	-0.17089879	0.64373551
C09...C99	=	0.02974920	-0.03764140	-0.05459910	0.51614131	0.44471354	-0.42818183	-0.71408330	-0.36245723	0.29819774	0.34288745

NOVEMBER

C01...C91	=	-0.00045792	0.12490474	0.00416000	0.07798037	0.01008040	-0.04595763	-0.01021537	0.03636497	-0.00659265	-0.02468892
C02...C92	=	0.00023970	0.00007981	-0.00585225	-0.01381715	0.05561071	0.07922198	-0.10889304	-0.11044078	0.05902938	0.04241012
C03...C93	=	-0.00109790	-0.00546995	-0.01100533	0.12190036	-0.13173108	-0.81497467	0.22427437	1.33396152	-0.05947632	-0.62221597
C04...C94	=	0.01548179	0.01993548	0.01073245	0.12186698	-0.16303467	-0.74647684	0.29836018	0.95496756	-0.15726041	-0.37165179
C05...C95	=	0.03288795	0.02325956	0.04374030	-0.17105516	0.02538992	2.32350627	0.07981737	-4.62526030	-0.16066731	2.38117870
C06...C96	=	-0.00606262	-0.02072850	-0.05750418	-0.19087622	0.24597122	0.99741539	-0.30479578	-1.15505250	0.18899658	0.39946522
C07...C97	=	-0.05111255	-0.01910766	-0.10370625	0.02375302	0.36504533	-2.78681604	-0.85557964	6.05301460	0.58942536	-3.20304983
C08...C98	=	0.00252644	0.00623749	0.03717285	0.12089724	-0.14389324	-0.43328008	0.15283854	0.38452610	-0.04044389	-0.09230989
C09...C99	=	0.02811085	0.00022410	0.05195174	0.05319892	-0.25364223	1.18698300	0.56949818	-2.69598744	-0.36392450	1.43807076

DECEMBER

C01...C91	=	0.00075466	0.12578014	-0.00435548	0.05794363	0.02368823	0.01984643	-0.01043594	-0.04148573	-0.01025555	0.00651621
C02...C92	=	0.00015047	-0.00032158	-0.00375648	-0.02540821	0.01103472	0.08064846	-0.00849910	-0.03450610	0.00513241	-0.02210814
C03...C93	=	-0.00987577	-0.01544424	0.04450492	0.15253009	-0.15622745	-0.49683599	0.10605069	0.59307493	0.01734937	-0.21956086
C04...C94	=	0.01488091	0.01939306	0.07785008	0.25924726	-0.31786116	-1.18189202	0.27708944	1.27490402	-0.08046503	-0.40307220
C05...C95	=	0.04044434	0.06324335	-0.02670680	-0.12990971	0.05441467	0.19368543	0.19675434	-0.31331723	-0.20639747	0.10482293
C06...C96	=	0.00303609	-0.00755590	-0.24360888	-0.39184220	0.84801884	1.59456518	-0.73261431	-1.68283805	0.13668274	0.51857252
C07...C97	=	-0.04234176	-0.07677294	-0.15203879	-0.08034543	0.49006617	0.34755356	-0.70494512	-0.16384530	0.43006615	0.07517913
C08...C98	=	-0.00272279	-0.00474724	0.16273080	0.16506265	-0.56633854	-0.47712988	0.48158071	0.37340178	-0.07223910	-0.06142895
C09...C99	=	0.01834557	0.02680159	0.12462206	0.07507210	-0.40300002	-0.07886915	0.50095854	-0.12130732	-0.22594197	0.06107717

S HEMISPHERE

AMPLITUDE (0.1K) AND PHASE (DEGREES LONGITUDE E) OF WAVES 1 AND 2 OF TEMPERATURE

WAVE 1 AMPLITUDE (0.1K) WAVE 1 PHASE (DEGREES) WAVE 2 AMPLITUDE (0.1K) WAVE 2 PHASE (DEGREES)
 KN LAT= -80 -70 -60 -50 -40 -30 -20 -80 -70 -60 -50 -40 -30 -20 -80 -70 -60 -50 -40 -30 -20 -80 -70 -60 -50 -40 -30 -20

APRIL

18	15	16	12	11	5	2	1	184	167	122	92	95	155	260	1	2	2	1	0	1	1	12	78	118	121	251	103	107
20	18	19	15	14	6	1	1	181	162	112	82	79	152	276	1	3	3	0	1	1	1	16	74	115	110	272	104	112
24	16	18	22	21	9	1	2	164	133	86	62	45	344	277	1	3	2	1	2	0	2	30	66	104	342	295	97	116
28	8	18	30	28	14	4	3	103	77	59	43	23	336	269	1	2	1	2	2	0	1	62	28	54	328	310	326	125
32	15	29	38	34	18	6	3	39	39	37	25	8	332	265	1	3	3	4	3	1	1	166	332	327	322	319	306	159
36	24	38	38	32	18	7	4	23	23	21	10	356	328	261	2	4	5	4	4	2	1	205	302	312	318	325	305	245
40	23	34	32	25	14	6	4	24	18	7	353	342	319	253	2	4	5	4	4	2	1	213	286	305	316	333	311	271
44	19	24	22	15	7	3	3	41	30	11	353	342	327	239	1	3	3	2	2	2	1	196	247	275	280	328	293	272
48	18	24	22	14	4	2	3	49	31	11	1	355	331	230	2	2	1	2	1	1	2	171	236	188	214	147	244	267
52	20	28	29	17	6	4	4	41	18	357	350	336	290	241	4	1	2	3	3	2	2	180	244	122	131	126	225	272
56	18	28	33	22	11	7	6	22	356	337	328	307	274	258	5	2	3	5	5	0	3	194	26	80	95	109	216	284
60	16	26	32	25	14	9	6	357	334	321	306	280	256	263	6	5	4	6	6	2	3	201	31	25	44	87	32	300
64	15	25	27	24	16	8	5	332	318	308	290	266	244	251	5	6	5	7	5	4	3	199	34	8	54	68	33	315
68	16	22	21	19	14	7	4	306	299	293	276	256	236	215	4	6	5	6	5	5	2	190	40	1	49	55	38	335
72	18	20	15	14	11	5	5	285	279	274	261	243	222	172	3	6	5	4	3	4	2	173	47	360	46	43	46	359
76	21	20	11	11	8	3	7	273	262	253	245	229	205	157	2	5	5	3	3	3	2	144	54	3	44	29	57	32
80	23	20	10	8	7	2	8	269	257	226	229	215	177	150	2	5	5	2	2	3	2	127	57	4	43	15	67	51

MAY

18	18	28	31	21	11	2	3	187	158	139	126	111	62	269	2	1	3	4	3	2	1	308	3	48	53	12	310	290
20	22	35	38	26	12	3	4	182	153	136	124	106	36	286	2	2	4	5	4	3	1	308	349	39	46	3	302	271
24	17	37	45	30	13	6	7	158	139	128	116	91	2	308	4	7	6	5	4	4	2	314	336	8	16	337	287	252
28	13	24	36	27	11	10	10	85	100	111	100	60	349	323	3	9	8	6	5	5	3	310	328	336	328	299	270	237
32	20	25	23	20	13	13	12	55	44	56	59	16	342	333	2	9	10	10	8	6	3	297	321	310	293	265	251	229
36	23	33	34	23	16	13	12	43	16	2	3	348	339	342	1	6	9	12	10	7	4	272	314	294	272	244	233	221
40	18	31	39	28	16	10	9	38	7	350	342	332	339	351	1	3	5	10	11	7	4	252	316	282	253	227	218	214
44	14	26	33	25	13	8	7	39	9	354	346	338	357	6	1	1	1	5	8	6	3	240	348	232	221	212	200	213
48	16	25	31	24	12	8	5	52	18	359	347	340	12	26	2	0	0	3	5	6	3	215	323	37	187	202	205	219
52	19	29	32	25	12	4	2	54	25	357	335	319	8	103	2	1	3	0	3	4	3	185	257	325	349	183	197	211
56	17	26	31	28	14	6	6	51	18	344	318	289	214	180	1	1	4	2	2	3	4	146	225	314	345	142	149	184
60	12	20	27	26	14	15	10	46	10	328	303	262	199	185	1	1	5	3	4	4	4	115	214	314	337	144	116	157
64	5	13	22	22	13	17	11	17	347	310	286	241	196	163	1	1	5	2	4	4	4	84	201	324	333	147	105	142
68	6	11	18	17	13	15	9	282	292	281	263	224	193	173	1	0	4	2	2	2	3	51	161	341	327	151	85	136
72	13	17	19	15	12	10	7	259	255	250	232	206	188	149	2	1	4	2	1	2	0	22	77	7	327	163	350	359
76	20	24	23	17	12	5	6	254	243	229	206	192	178	123	2	1	4	1	1	4	2	5	54	29	342	314	312	311
80	22	28	27	19	12	2	7	250	238	217	192	184	136	104	2	2	5	1	2	5	4	358	44	50	5	326	305	307

JUNE

18	13	18	20	15	10	1	5	210	182	152	138	137	173	274	3	2	4	5	6	6	3	344	75	147	192	241	260	271
20	15	21	24	17	11	1	7	204	174	148	133	130	331	281	5	3	5	6	7	7	3	346	62	141	190	243	263	279
24	7	17	22	16	8	5	8	161	138	122	112	93	341	290	5	5	5	5	5	5	2	357	38	124	182	252	281	313
28	13	17	16	14	12	10	7	52	59	63	54	25	341	300	1	5	4	2	3	4	3	48	18	69	110	359	355	12
32	15	23	28	26	22	13	6	38	29	13	5	356	338	316	2	4	6	7	10	9	5	165	3	21	37	39	34	36
36	13	23	34	34	26	12	3	24	14	359	347	341	333	340	2	3	6	11	15	12	6	176	352	3	24	43	43	44
40	13	22	31	29	20	7	2	27	14	358	338	321	313	66	1	2	5	9	14	11	5	263	351	354	19	42	44	45
44	15	26	30	22	13	3	2	24	14	2	335	300	277	93	3	2	4	3	6	5	3	264	339	346	13	79	67	71
48	17	31	33	22	11	5	3	12	10	358	333	281	221	123	4	2	2	1	7	5	3	233	314	349	158	135	123	117
52	19	35	37	25	11	12	9	357	4	349	329	260	195	154	6	2	1	2	9	6	4	211	248	9	153	153	123	99
56	18	32	32	22	14	23	20	341	354	338	318	238	184	160	6	2	1	1	6	7	5	198	214	50	103	162	91	64
60	17	26	25	17	18	31	27	328	343	323	302	217	178	160	5	2	1	2	1	7	5	187	196	88	35	312	45	33
64	13	20	20	14	17	31	28	313	326	304	285	210	174	160	3	2	1	4	6	8	4	165	161	71	29	348	16	359
68	10	14	16	12	13	24	20	289	295	282	270	206	169	160	2	2	3	5	9	9	4	81	99	52	31	355	355	323
72	9	15	15	10	7	13	6	255	256	257	259	199	156	155	4	4	4	6	11	8	4	39	71	44	33	358	329	273
76	10	20	16	8	2	6	4	226	231	235	244	177	111	351	7	6	6	7	12	8	5	30	63	41	34	2	310	249
80	12	23	18	7	3	7	10	214	220	217	229	46	53	345	8	7	6	7	12	8	5	28	61	40	35	4	298	238

JULY

18	24	34	39	38	27	11	4	211	197	164	146	144	160	242	5	4	9	8	7	7	4	2	336	234	234	275	299	299
20	28	36	44	43	29	10	4	206	184	152	137	136	152	261	9	5	10	11	9	7	5	9	356	225	230	271	293	293
24	11	30	47	46	28	6	5	109	97	103	105	104	85	315	6	7	11	17	13	8	4	31	41	196	213	248	269	277
28	27	53	64	58	36	17	9	50	51	52	59	53	23	344	1	5	13	21	16	8	4	257	78	163	202	221	234	245
32	31	60	79	82	59	32	13	45	39	30	28	21	8	354	1	6	13	20	17	10	3	232	117	144	187	198	194	196
36	30	56	77	87	70	38	14	44	32	18</																		

S HEMISPHERE

AMPLITUDE (0.1K) AND PHASE (DEGREES LONGITUDE E) OF WAVES 1 AND 2 OF TEMPERATURE

KN LAT	WAVE 1 AMPLITUDE (0.1K)								WAVE 1 PHASE (DEGREES)								WAVE 2 AMPLITUDE (0.1K)								WAVE 2 PHASE (DEGREES)							
	-80	-70	-60	-50	-40	-30	-20	-80	-70	-60	-50	-40	-30	-20	-80	-70	-60	-50	-40	-30	-20	-80	-70	-60	-50	-40	-30	-20DEG				

AUGUST

18	28	49	52	38	17	2	4	210	186	154	130	116	95	293	4	17	30	35	24	14	6	29	356	334	327	329	333	346
20	41	60	63	44	19	3	6	184	170	144	123	110	65	299	11	27	40	43	29	17	7	3	349	330	324	326	329	341
24	29	50	63	46	21	4	7	105	111	115	105	87	27	311	10	29	44	48	33	18	6	333	331	318	316	316	317	327
28	27	50	54	42	22	11	7	75	66	68	72	55	10	322	5	14	26	40	31	16	4	290	294	292	298	299	295	300
32	26	53	62	45	27	15	7	65	47	32	29	22	2	335	5	10	18	26	25	14	4	259	241	228	253	266	253	234
36	25	51	66	51	30	15	5	55	36	15	3	360	353	348	5	12	25	30	26	17	7	241	208	189	208	218	210	195
40	28	47	60	49	26	11	3	36	26	4	346	342	341	4	3	9	26	38	33	22	10	236	198	173	175	186	182	176
44	31	42	47	35	20	9	2	14	8	349	329	310	293	258	2	3	19	29	27	20	9	226	213	167	161	166	167	169
48	29	40	41	29	21	14	7	348	339	321	290	266	254	233	1	4	15	21	19	15	7	217	266	182	162	153	162	179
52	28	46	50	41	30	19	11	308	309	294	261	238	226	210	2	7	18	19	13	11	7	224	247	207	189	170	177	209
56	34	53	62	54	38	24	16	274	287	279	252	224	196	177	4	11	22	26	18	10	7	224	216	212	210	215	215	240
60	43	59	64	52	35	26	20	256	269	267	248	215	176	155	4	15	19	25	24	11	5	224	196	201	204	207	204	244
64	46	60	58	43	27	23	20	247	256	256	245	210	166	146	4	17	15	21	24	10	2	224	184	184	194	197	182	213
68	43	55	46	32	19	15	14	239	243	243	244	210	168	151	2	16	12	16	20	10	2	224	175	162	176	181	158	163
72	37	48	35	21	12	8	8	231	229	228	238	215	197	174	0	14	12	14	16	11	3	229	466	141	148	150	139	152
76	31	43	28	14	9	8	7	223	216	208	234	229	257	233	1	12	12	15	17	13	4	41	156	124	130	128	132	157
80	27	40	24	9	7	11	10	215	208	193	228	247	280	260	2	11	12	16	18	14	5	42	149	118	119	112	127	160

SEPTEMBER

18	42	70	88	67	34	13	2	162	123	94	83	82	79	30	2	11	16	7	2	1	1	24	102	118	124	159	171	41
20	58	93	108	79	39	15	3	123	105	89	80	78	74	12	4	15	17	7	2	1	1	42	95	117	124	160	170	47
24	68	107	121	89	43	13	3	71	73	75	71	66	53	323	4	9	14	7	3	1	1	31	90	123	134	188	184	61
28	62	93	97	76	37	10	4	52	49	54	57	47	4	282	1	2	7	4	3	2	2	8	97	154	159	207	180	79
32	58	82	72	53	32	17	9	43	32	23	23	5	315	266	1	2	5	3	2	2	1	260	279	230	199	221	175	103
36	52	71	63	49	36	23	11	37	17	348	336	325	296	256	2	5	7	2	1	1	1	246	280	271	272	286	158	135
40	42	56	62	56	40	25	11	31	1	321	306	301	282	248	2	6	9	4	2	1	1	257	290	288	310	360	84	159
44	28	44	55	48	33	20	9	2	334	306	296	294	279	249	2	7	8	4	3	1	1	270	287	287	331	24	52	202
48	33	52	55	41	25	13	7	328	315	303	298	300	289	259	1	8	8	2	3	2	2	291	280	271	311	62	50	269
52	45	67	65	43	23	10	5	318	315	308	304	308	301	263	0	7	9	3	4	2	3	74	266	250	213	112	42	279
56	51	77	76	52	25	7	3	317	320	313	309	311	299	234	2	5	7	6	6	2	2	123	248	236	205	163	80	260
60	50	69	67	45	19	6	4	302	311	304	298	291	232	171	3	4	5	6	5	2	2	159	215	222	217	191	82	146
64	46	54	49	34	15	10	5	285	298	294	288	269	205	156	5	5	4	6	5	1	4	172	190	211	235	216	85	129
68	39	38	32	23	13	10	5	270	279	278	275	254	204	160	5	5	2	6	5	0	3	176	185	216	255	235	170	120
72	30	28	21	15	11	8	2	255	255	250	252	248	210	175	5	4	2	6	4	1	1	171	188	248	272	240	234	45
76	24	25	18	11	9	7	1	237	228	221	232	250	225	273	4	3	3	6	3	1	3	162	191	275	284	258	237	327
80	18	23	18	9	8	6	3	225	212	203	207	251	241	309	4	2	4	7	3	2	5	156	202	287	298	245	238	321

OCTOBER

18	41	66	64	40	19	4	1	153	141	131	123	121	117	269	7	9	5	6	7	4	1	308	282	266	252	260	251	116
20	46	74	74	47	22	5	2	139	133	127	120	117	109	274	9	10	5	6	8	5	2	311	292	274	255	262	251	119
24	40	66	74	51	24	4	3	102	110	114	111	103	80	273	7	9	3	4	8	5	2	316	320	329	265	268	250	127
28	31	45	51	42	21	5	4	65	75	89	92	79	28	271	2	6	6	2	5	4	1	333	24	58	38	282	250	139
32	28	40	40	34	22	8	5	39	30	34	41	32	353	270	2	11	12	7	2	1	1	185	68	76	67	349	249	164
36	27	46	53	42	27	11	5	18	2	357	1	0	337	267	4	14	16	10	4	1	1	116	82	83	74	57	76	214
40	22	48	64	50	31	12	5	4	346	341	343	344	325	262	5	15	16	11	6	2	1	119	88	89	70	71	69	264
44	22	46	62	51	30	11	5	355	340	337	338	334	315	263	3	11	10	6	4	2	1	126	95	86	73	75	75	293
48	25	50	61	48	27	9	5	351	338	334	334	323	299	269	1	6	3	1	2	3	2	166	112	55	51	94	92	321
52	27	51	58	44	23	7	5	350	337	333	327	305	258	264	2	3	2	1	2	3	2	275	135	329	258	145	163	335
56	27	47	49	33	18	10	3	349	338	327	309	269	204	210	2	2	2	2	2	1	1	289	187	329	222	183	101	354
60	20	30	30	22	16	13	6	329	328	309	274	230	187	153	1	3	2	3	2	1	1	308	67	118	183	215	7	133
64	16	16	17	19	14	12	8	298	297	267	237	207	180	140	2	2	5	3	1	3	1	24	38	125	160	254	350	96
68	14	13	16	16	9	8	8	263	246	229	218	199	179	128	3	2	6	3	1	5	3	46	19	118	141	38	10	35
72	14	16	17	11	3	3	6	234	222	214	207	203	182	108	6	2	6	3	2	7	6	49	27	107	126	55	30	18
76	14	18	16	6	3	2	5	215	215	211	202	350	340	72	7	2	7	3	3	9	8	47	37	103	109	43	42	12
80	14	18	14	2	8	6	6	203	213	212	186	358	347	47	8	1	7	3	4	10	10	47	44	85	101	67	48	9

NOVEMBER

18	32	52	50	35	11	2	5	133	118	106	95	82	275	248	1	2	2	0	4	2	2	329	8	115	57	262	228	129
20	33	56	56	40	12	3	6	130	114	101	91	78	275	248	1	3	2	0	4	3	3	331	15	104	61	260	228	128
24	22	43	50	36	10	3	5	114	100	88	79	61	275	249	1	4	3	1	4	3	3	340	30	98	120	253	226	129
28	12	24	30	22	7	3	4	33	43	47	43	7	274	247	1	4	4	3	3	2	2	333	56	103	143	234	219	129
32	27	40	39	26	11	3	1	348	343	342	334																	

N HEMISPHERE

AMPLITUDE (0.1K) AND PHASE (DEGREES LONGITUDE E) OF WAVES 1 AND 2 OF TEMPERATURE

KN LAT= WAVE 1 AMPLITUDE (0.1K) WAVE 1 PHASE (DEGREES) WAVE 2 AMPLITUDE (0.1K) WAVE 2 PHASE (DEGREES)
 20 30 40 50 60 70 80 20 30 40 50 60 70 80 20 30 40 50 60 70 80 20 30 40 50 60 70 80 8088

SEPTEMBER

18	4	5	4	3	5	7	5	286	299	71	117	267	272	256	3	4	1	5	7	4	1	355	3	19	257	265	264	220
20	5	6	2	4	5	8	6	287	299	69	117	262	269	256	4	5	1	6	8	6	1	355	1	19	254	261	260	217
24	5	7	1	5	4	8	6	286	297	58	117	241	259	255	5	5	2	6	10	8	2	354	1	21	243	248	248	212
28	4	6	1	5	4	4	4	284	294	30	116	166	223	253	4	5	2	5	11	9	3	354	359	25	223	230	234	267
32	2	4	1	4	7	6	0	281	292	340	111	123	136	117	3	4	2	4	9	8	3	352	357	31	183	204	215	201
36	0	1	2	3	11	11	5	233	288	329	91	110	112	81	2	2	1	5	8	7	3	349	354	45	141	174	191	194
40	1	0	2	3	11	13	7	131	141	330	50	98	99	80	0	1	1	5	8	6	2	321	347	58	115	144	162	184
44	1	1	3	3	9	11	6	153	106	357	31	78	81	67	1	0	1	5	7	5	2	146	91	64	98	128	148	188
48	2	1	4	4	6	7	5	207	100	21	26	58	51	21	1	1	1	5	5	4	1	122	88	55	87	118	146	233
52	4	1	5	3	3	5	6	245	243	20	358	20	8	341	1	1	1	6	5	3	2	82	55	28	91	112	148	274
56	6	5	3	4	5	5	6	266	266	333	279	279	318	323	2	1	1	6	4	0	4	322	53	42	105	104	142	287
60	6	8	5	7	7	4	3	271	267	270	271	276	297	328	3	1	2	4	3	2	3	311	94	60	113	68	12	294
64	5	8	7	6	6	3	2	259	262	257	275	283	265	51	3	1	2	2	3	5	2	314	113	72	120	38	12	326
68	3	7	6	4	3	2	4	219	254	260	312	314	185	78	2	2	2	1	3	6	2	349	103	89	112	21	18	48
72	4	4	3	5	4	4	6	160	237	287	15	29	145	78	2	3	2	1	3	7	5	87	103	119	88	14	25	67
76	7	3	3	8	7	6	8	142	186	354	35	52	135	75	5	5	2	2	3	8	7	103	101	144	68	10	31	70
80	8	3	4	10	9	7	9	136	147	19	42	58	130	72	7	5	2	2	3	8	8	106	98	162	60	7	34	73

OCTOBER

18	5	8	2	18	28	29	16	304	307	241	197	222	227	225	4	4	3	10	10	6	1	31	43	316	308	319	349	24
20	7	10	1	21	33	35	20	305	312	109	184	209	216	213	5	4	3	11	12	7	1	31	43	311	304	314	341	9
24	8	12	8	32	47	51	32	307	326	77	153	176	185	184	5	4	3	12	14	8	2	27	42	300	295	299	313	316
28	9	13	18	48	72	74	47	309	342	74	126	145	155	158	4	3	2	10	13	9	3	21	39	277	277	277	277	281
32	9	13	26	63	99	104	65	311	360	70	108	124	136	141	2	1	2	8	12	11	5	359	22	228	237	244	251	270
36	8	13	29	66	106	110	65	316	13	65	94	112	120	124	1	1	2	8	13	14	6	260	234	188	191	212	231	249
40	7	12	26	57	89	85	45	322	19	56	80	97	102	103	2	2	3	10	14	16	6	230	226	170	167	192	213	225
44	6	9	20	44	58	58	31	320	17	47	66	78	75	69	2	2	2	8	14	14	4	208	220	154	149	171	190	211
48	7	7	17	36	44	49	29	309	1	43	58	62	58	51	1	1	0	5	12	14	2	167	230	47	135	157	179	227
52	8	8	16	30	36	37	24	306	352	37	48	48	36	41	1	2	2	3	10	11	2	112	261	342	131	154	180	317
56	7	8	15	23	31	37	17	318	360	19	17	4	338	2	2	3	2	2	8	5	2	337	281	341	119	146	166	26
60	5	6	16	26	34	47	15	350	7	348	342	336	309	326	4	3	2	3	5	3	3	321	299	0	67	115	35	77
64	3	16	29	35	48	13		46	353	326	319	318	294	300	3	1	2	4	4	7	5	311	331	14	44	55	10	106
68	3	4	14	27	31	44	14	124	243	301	303	304	284	283	1	2	2	4	6	8	7	249	77	356	15	25	5	126
72	6	11	14	21	26	39	17	163	222	269	287	290	275	279	4	4	2	4	7	8	10	155	111	338	340	12	4	134
76	9	16	15	17	20	33	18	177	220	246	267	275	266	277	8	6	2	5	8	7	13	148	119	323	315	4	5	138
80	11	19	16	14	17	27	15	183	219	234	247	260	253	269	10	7	3	5	8	6	14	147	122	317	304	2	2	140

NOVEMBER

18	9	9	14	39	54	63	42	293	342	138	182	210	225	232	5	3	8	16	15	9	2	43	30	273	300	327	4	76
20	12	12	19	50	70	80	53	304	353	129	177	204	220	227	6	3	10	19	18	10	3	47	43	266	295	321	1	74
24	14	19	30	68	98	105	67	327	14	113	166	190	204	213	5	2	11	20	19	9	3	60	99	246	280	303	348	74
28	17	26	38	77	111	106	61	350	28	100	152	172	182	186	3	4	10	16	14	4	2	91	142	214	251	274	317	66
32	19	29	38	71	106	101	59	5	35	86	135	151	153	151	3	6	11	16	13	5	2	144	149	182	200	219	245	343
36	18	25	30	52	86	92	58	12	34	67	108	125	123	119	3	6	13	20	17	9	4	170	140	139	164	189	226	293
40	15	18	21	36	67	74	47	14	24	31	71	96	96	89	2	5	14	22	20	14	4	176	111	113	143	176	213	255
44	12	14	21	32	58	60	39	6	357	3	55	80	81	69	1	6	14	20	18	14	3	75	74	92	122	158	191	210
48	10	14	24	34	62	59	39	353	335	2	59	78	78	60	2	8	12	18	14	9	2	34	52	76	107	144	181	289
52	5	12	23	42	71	66	42	337	313	2	60	74	71	53	2	8	9	11	7	3	3	346	23	54	97	137	229	253
56	6	9	16	43	71	68	41	191	247	353	45	49	47	38	5	9	7	1	2	5	5	282	339	3	66	213	291	244
60	14	17	15	38	70	66	35	189	225	297	14	21	28	27	6	10	9	6	2	6	5	274	326	338	314	294	323	246
64	16	19	20	39	70	61	30	194	225	275	345	1	12	13	4	8	9	9	4	6	5	276	325	331	317	336	345	251
68	13	14	20	39	64	56	26	206	236	275	326	346	357	359	0	4	6	9	5	5	3	64	345	337	328	351	9	264
72	8	10	19	37	58	51	23	229	261	285	314	331	343	345	6	3	4	7	5	5	2	91	89	6	349	0	32	295
76	7	10	17	36	52	46	21	275	303	299	304	319	329	331	10	7	3	7	5	5	2	92	110	64	15	1	54	346
80	9	11	16	33	48	41	18	303	325	311	298	309	319	320	12	9	5	7	4	5	3	93	115	90	34	5	65	4

DECEMBER

18	12	5	40	84	107	92	48	324	41	166	193	212	225	239	5	9	8	7	18	19	10	66	91	130	2	17	52	86
20	16	10	47	101	130	111	59	327	37	158	187	207	219	232	5	10	8	8	20	21	11	67	91	126	3	15	50	84
24	19	22	52	114	147	126	67	338	35	133	170	190	201	208	4	7	4	13	20	19	6	42	85	83	5	17	43	70
28	18	31	56	105	125	107	56	349	33	98	143	163	168	169	1	2	10	19	18	10	6	358	334	340	0	18	12	303
32	15	35	64	100	111	98	55	1	27	65	106	121	121	126	3	10	21	23	14	15	14	272	291	324	347	356	289	285
36	10	31	68	103	119	105	56	8	16																			

N HEMISPHERE

AMPLITUDE (0.1K) AND PHASE (DEGREES LONGITUDE E) OF WAVES 1 AND 2 OF TEMPERATURE

KM LAT	WAVE 1 AMPLITUDE (0.1K)								WAVE 1 PHASE (DEGREES)								WAVE 2 AMPLITUDE (0.1K)								WAVE 2 PHASE (DEGREES)							
	20	30	40	50	60	70	80	20	30	40	50	60	70	80	20	30	40	50	60	70	80	20	30	40	50	60	70	80				

JANUARY

18	6	6	39	77	116	128	78	344	122	166	181	186	191	198	5	8	10	28	43	41	14	75	53	347	332	342	2	18
20	8	7	44	89	138	155	98	345	99	161	178	184	188	194	5	9	13	33	49	45	15	72	48	344	329	339	359	15
24	11	12	39	90	148	164	104	349	52	145	168	175	180	182	4	8	18	37	47	36	11	63	26	338	325	329	348	358
28	12	20	29	68	110	117	73	350	28	98	144	159	163	163	2	8	20	33	33	20	4	0	339	326	317	308	312	300
32	11	28	43	55	73	73	49	351	16	45	92	121	125	126	4	11	19	24	23	21	9	283	297	309	295	261	240	246
36	8	30	63	77	77	75	49	352	9	25	48	66	73	86	6	13	16	20	33	33	12	262	269	280	247	214	213	229
40	5	27	69	97	103	95	54	348	2	15	30	39	48	64	6	14	16	25	41	36	9	247	247	244	208	196	203	216
44	2	19	53	88	106	99	55	332	357	9	19	25	29	41	5	13	16	24	34	28	6	228	231	220	202	193	194	117
48	2	12	36	69	93	93	53	301	352	6	11	13	13	17	5	12	14	20	27	21	10	210	219	215	215	202	180	92
52	1	6	20	48	71	78	51	300	336	4	358	0	355	353	5	11	10	20	26	18	6	198	210	212	225	216	172	108
56	1	5	7	35	61	73	51	308	255	302	322	334	333	336	5	9	5	19	29	16	6	189	194	149	208	210	167	210
60	1	9	13	36	61	70	47	267	228	244	288	309	315	322	5	8	9	19	25	12	12	171	161	118	176	190	162	231
64	1	10	15	38	59	63	42	258	229	242	262	286	298	311	4	7	8	18	20	7	14	153	132	106	150	171	160	234
68	2	8	11	37	54	54	33	295	246	256	245	266	280	295	3	6	5	14	14	4	13	131	97	88	128	149	170	233
72	2	6	9	33	48	43	24	309	280	282	232	247	261	274	2	6	2	11	9	2	9	84	60	46	100	122	208	230
76	3	7	9	30	46	37	20	321	317	326	222	231	240	243	3	7	4	10	9	2	6	47	34	325	72	90	258	224
80	4	9	12	28	44	35	21	327	333	344	214	219	222	217	3	8	6	11	9	3	3	31	20	312	53	69	282	212

FEBRUARY

18	5	2	22	49	77	94	60	342	144	172	196	214	217	217	10	8	7	10	45	22	17	156	85	291	330	12	356	119
20	8	2	27	58	90	111	75	346	114	167	191	209	213	213	21	10	13	10	53	26	31	205	124	159	278	9	358	122
24	8	5	28	63	96	110	76	346	65	151	176	194	202	202	15	16	21	16	30	17	4	114	326	358	346	331	16	245
28	6	8	26	62	83	75	48	349	49	122	152	165	176	180	6	3	5	10	19	5	17	312	11	60	354	290	237	284
32	4	11	27	58	74	57	35	349	39	61	112	120	128	138	10	15	25	26	12	25	31	331	158	176	201	231	232	271
36	1	13	33	63	86	75	39	342	29	52	78	90	88	94	10	10	15	31	41	39	24	295	168	167	181	194	217	221
40	1	12	34	65	91	90	45	293	19	34	55	66	67	68	12	15	24	23	54	45	20	340	9	162	141	181	205	184
44	2	12	30	53	78	83	38	329	14	31	48	55	57	57	4	1	4	14	21	23	5	103	125	210	130	211	189	303
48	4	13	22	40	66	72	35	355	24	35	46	38	40	37	7	5	4	7	21	13	3	67	218	72	178	172	165	225
52	5	12	15	29	63	68	35	12	43	51	32	13	15	12	3	4	5	3	2	1	5	92	122	157	133	15	184	82
56	4	10	6	29	72	71	34	47	81	87	349	349	351	357	5	7	12	7	6	3	5	131	105	110	93	2	338	23
60	2	7	6	45	81	78	38	128	141	258	320	329	332	345	4	11	14	9	9	6	7	102	94	104	68	3	351	25
64	4	9	14	51	80	79	40	188	202	268	307	315	319	337	4	8	11	10	11	7	6	92	88	84	50	1	353	25
68	5	11	18	47	70	70	40	212	235	276	297	303	309	332	3	6	8	11	10	6	5	72	79	60	34	359	357	20
72	5	13	21	40	59	58	37	236	258	283	288	291	299	327	2	2	7	10	10	4	3	64	41	18	19	3	357	12
76	6	15	21	34	50	46	34	253	275	290	277	277	286	322	2	3	9	11	9	3	2	36	323	354	9	3	15	332
80	6	16	21	30	45	39	30	264	284	294	269	265	274	318	1	4	9	11	8	2	2	8	308	343	5	9	27	269

MARCH

18	6	3	26	66	96	102	68	314	267	191	208	215	214	209	4	3	10	21	20	15	4	86	25	298	285	276	272	245
20	8	3	29	75	110	116	75	320	301	185	205	212	212	208	4	3	10	23	23	17	4	87	28	297	281	270	262	236
24	10	7	24	72	109	107	64	331	9	159	191	202	205	205	4	4	8	20	22	16	6	89	37	295	270	251	237	214
28	9	15	23	50	70	62	30	344	25	99	153	172	182	193	2	3	1	10	16	14	4	89	51	289	231	208	195	163
32	8	21	40	61	68	50	20	358	29	60	88	101	98	70	1	2	6	14	19	16	4	256	82	128	152	160	155	118
36	7	22	50	88	108	94	52	6	28	45	63	68	63	47	2	1	11	21	23	18	7	265	138	125	135	142	141	105
40	5	19	50	95	124	119	72	5	24	36	51	57	52	41	3	2	11	22	23	17	6	267	183	124	128	134	136	110
44	4	14	37	77	103	102	61	340	13	30	45	49	47	41	3	1	6	12	13	10	3	271	224	134	132	144	146	129
48	5	11	24	58	80	80	46	315	1	23	35	39	38	34	3	2	3	4	7	6	2	284	299	174	180	190	158	105
52	4	8	17	46	70	71	42	303	0	11	16	19	19	13	2	2	3	7	11	4	4	312	332	203	242	225	175	85
56	1	4	14	42	73	75	47	261	43	353	346	355	359	356	1	1	4	9	13	4	6	3	20	179	219	214	156	90
60	2	4	15	41	67	70	45	160	167	322	318	337	343	346	2	2	3	6	8	3	6	71	117	153	196	185	92	99
64	4	8	16	38	56	59	36	181	196	302	299	320	328	336	3	3	2	4	4	4	5	103	138	117	156	123	42	113
68	4	9	16	31	42	43	25	222	213	297	286	304	313	325	4	4	3	3	6	5	4	118	135	75	99	68	23	130
72	6	9	15	24	30	29	12	252	232	297	277	288	299	310	5	3	4	5	9	6	3	129	128	55	61	48	22	144
76	9	10	14	16	21	19	9	264	250	303	273	268	277	275	5	2	4	7	11	6	3	136	113	46	49	40	24	161
80	11	10	13	11	16	14	7	269	262	308	268	250	256	242	5	2	5	8	13	6	2	141	100	43	43	38	30	156

APRIL

18	4	8	2	21	24	14	6	304	320	141	163	170	174	212	3	5	6	5	6	5	2	40	35	0	319	246	210	190
20	5	10	1	23	29	17	7	302	321	83	160	168	170	208	4	5	7	7	7	6	3	38	34	358	318	244	209	192
24	5	11	5	20	31	21	9	295	320	10	147	157	161	195	3	5	7	8	8	7	3	34	31	353	312	241	207	198
28	5	10	11	12	22	20	9	280	317	360	96	136	148	173	3	4	4	7	6	7	3	22	28	339	303	238	203	205
32	4	7	15	19	16	15	8	257	315	35																		

S HEMISPHERE AMPLITUDE (0.1%) AND PHASE (DEGREES LONGITUDE E) OF WAVES 1 AND 2 OF PRESSURE/(ZONAL MEAN PRESSURE) - 1

KM LAT=	WAVE 1 AMPLITUDE (0.1%)								WAVE 1 PHASE (DEGREES)								WAVE 2 AMPLITUDE (0.1%)								WAVE 2 PHASE (DEGREES)							
	-80	-70	-60	-50	-40	-30	-20		-80	-70	-60	-50	-40	-30	-20		-80	-70	-60	-50	-40	-30	-20		-80	-70	-60	-50	-40	-30	-20	DEG

APRIL

18	16	22	23	17	7	4	5		240	235	223	216	206	178	174		2	2	4	4	3	1	1		53	18	25	36	82	99	347
20	18	23	22	16	6	5	5		233	229	218	210	199	174	176		2	3	4	4	3	1	1		50	26	30	37	82	99	5
24	21	25	20	12	5	5	5		219	215	205	194	184	176	182		2	4	4	4	3	2	1		45	38	40	36	79	100	51
28	23	24	16	8	3	4	5		210	203	184	162	149	179	190		3	4	5	4	2	2	1		44	40	44	30	69	98	71
32	20	18	11	7	3	3	5		206	191	146	92	54	190	199		3	5	5	4	2	2	1		46	33	39	20	47	96	85
36	14	9	11	13	7	2	5		204	172	89	51	23	224	207		2	5	5	5	2	1	1		51	22	27	9	23	89	90
40	8	4	16	18	10	2	6		207	92	56	34	11	267	213		2	5	5	5	3	1	1		57	9	13	2	9	74	92
44	4	9	20	22	12	3	6		199	50	43	26	5	282	217		1	5	6	6	3	1	0		64	1	4	356	3	52	93
48	2	14	24	24	13	3	7		121	44	38	23	4	289	218		1	5	5	6	3	1	0		74	356	2	352	2	38	92
52	5	19	29	27	14	4	8		68	39	32	20	3	290	219		1	5	5	5	3	0	0		98	352	4	352	9	25	256
56	8	24	34	30	15	5	9		51	31	24	15	359	288	223		2	5	5	5	3	0	1		135	353	12	359	26	352	275
60	11	29	38	33	17	6	10		39	23	15	7	349	282	228		2	5	6	6	4	0	1		160	358	15	11	46	21	281
64	13	32	43	36	18	8	11		27	14	7	358	338	274	231		3	6	7	7	5	1	2		174	4	15	21	54	28	293
68	15	35	45	38	19	10	12		14	6	0	350	326	268	232		4	8	8	8	6	2	3		179	10	12	26	56	32	299
72	16	37	47	39	20	11	13		360	358	355	343	317	262	228		5	9	10	10	7	4	3		180	15	10	29	55	35	308
76	18	37	47	39	21	12	14		343	350	351	338	310	258	221		6	10	11	11	8	5	3		178	19	8	30	53	39	317
80	20	38	46	39	21	12	15		328	342	347	335	304	256	213		6	11	12	11	8	5	3		175	23	8	31	51	43	326

MAY

18	13	17	16	8	3	4	3		193	199	195	199	204	161	133		6	8	5	1	2	3	2		146	150	159	136	92	79	67
20	14	21	20	10	3	4	3		191	188	181	179	171	156	140		5	8	5	2	2	2	2		148	148	152	110	75	71	63
24	24	33	31	16	6	3	1		185	172	161	151	130	140	164		4	6	4	2	2	2	1		153	145	132	74	42	43	58
28	27	41	42	23	8	2	1		177	161	149	137	111	91	285		2	3	3	3	3	1	1		165	139	97	42	14	355	49
32	25	41	48	28	10	3	4		165	151	140	126	92	16	315		2	0	2	4	3	2	0		182	85	14	1	340	304	236
36	23	37	45	28	10	6	7		151	140	131	114	70	357	324		2	2	4	5	4	3	1		195	318	329	325	304	277	227
40	22	33	38	24	11	9	9		138	128	121	101	49	351	330		2	3	5	7	6	4	2		202	315	316	304	279	260	224
44	21	30	33	22	12	11	10		128	117	109	86	33	350	334		2	3	6	8	7	5	3		206	315	313	293	263	249	220
48	22	29	31	22	14	12	11		120	107	97	72	25	353	338		3	3	5	8	8	6	3		209	316	313	288	255	241	220
52	24	30	31	23	15	14	11		113	97	85	59	18	354	340		3	3	6	8	8	7	4		207	315	315	286	251	237	219
56	26	32	31	23	16	14	11		105	87	73	45	9	353	340		3	3	6	8	8	8	4		204	310	315	289	247	232	216
60	27	34	31	23	16	12	9		100	79	61	30	357	347	335		4	3	7	8	8	7	5		199	306	316	293	243	226	208
64	28	35	30	24	16	8	7		96	73	51	16	346	335	326		4	3	8	9	8	7	6		194	302	317	295	236	218	200
68	28	34	29	23	15	6	5		95	70	43	5	334	305	307		3	3	9	9	8	7	6		190	300	319	297	230	212	191
72	25	31	26	22	14	5	3		96	67	36	355	321	270	284		3	3	10	10	8	6	7		187	301	322	299	228	211	189
76	22	26	21	19	12	6	2		100	67	31	347	308	249	249		2	3	11	10	8	6	6		187	305	326	299	227	218	192
80	17	19	15	15	11	6	2		108	70	26	336	291	240	174		2	3	11	10	8	6	6		188	311	331	300	230	230	200

JUNE

18	21	28	28	15	7	7	6		220	221	221	204	178	152	141		5	4	3	4	6	5	2		172	148	1	58	68	81	74
20	24	30	29	16	9	7	5		218	216	214	196	171	152	148		5	4	2	4	5	4	2		173	141	13	67	70	81	69
24	29	35	32	18	10	6	4		214	205	199	181	158	151	171		2	4	2	3	3	2	1		175	118	59	95	71	73	44
28	27	34	32	19	10	4	3		209	196	188	168	145	146	205		1	5	3	4	3	2	2		170	92	75	110	64	42	28
32	22	28	26	14	7	1	3		206	191	182	154	119	115	237		1	5	4	5	4	3	3		169	77	65	97	51	32	27
36	18	22	16	6	6	2	3		205	188	181	124	57	358	256		2	5	6	6	8	6	4		170	68	51	72	47	36	32
40	15	16	8	5	9	4	3		206	186	184	31	15	343	263		2	5	7	8	12	9	5		175	61	41	57	46	38	35
44	12	11	1	10	11	5	3		205	183	203	2	357	335	261		2	5	7	10	14	10	6		187	57	35	52	46	40	37
48	9	6	6	14	12	5	2		207	173	357	353	347	328	258		3	5	8	10	14	11	6		200	52	31	51	51	44	40
52	6	2	13	19	13	5	2		219	59	355	348	337	311	233		4	5	8	10	14	11	7		206	51	30	53	58	49	45
56	5	8	20	24	13	4	4		255	11	351	343	325	262	191		5	5	8	10	14	12	7		205	51	30	54	65	55	49
60	6	13	25	27	13	8	9		288	1	347	338	309	211	174		6	4	8	10	14	13	8		203	55	30	54	67	56	49
64	9	18	30	30	13	15	16		299	355	342	334	291	194	168		7	4	8	11	14	15	9		200	59	31	53	64	53	46
68	12	21	32	31	14	22	22		300	348	337	329	275	187	166		7	4	9	11	14	16	10		197	64	32	50	57	47	39
72	14	22	34	33	15	27	26		295	339	331	325	266	182	165		6	5	10	13	16	18	10		193	66	33	48	49	40	33
76	16	22	34	33	16	29	26		288	328	324	321	261	179	164		5	6	11	15	18	18	9		187	66	34	47	41	32	27
80	16	21	34	34	15	29	24		278	312	316	318	263	175	164		3	8	12	17	21	19	7		176	65	35	45	36	24	19

JULY

18	9	27	37	24	7	3	3		264	234	228	202	205	174	147		7	9	9	1	2	4	4		171	203	236	307	151	79	126
20	14	33	40	28	10	5	3		242	224	218	191	183	169	159		6	8	11	2	3	3	4		143	207	235	2			

S HEMISPHERE AMPLITUDE (0.1Z) AND PHASE (DEGREES LONGITUDE E) OF WAVES 1 AND 2 OF PRESSURE/(ZONAL MEAN PRESSURE) - 1

WAVE 1 AMPLITUDE (0.1Z) WAVE 1 PHASE (DEGREES) WAVE 2 AMPLITUDE (0.1Z) WAVE 2 PHASE (DEGREES)
 KM LAT -80 -70 -60 -50 -40 -30 -20 -80 -70 -60 -50 -40 -30 -20 -80 -70 -60 -50 -40 -30 -20 -80 -70 -60 -50 -40 -30 -20 DEG

AUGUST

18	21	32	32	19	9	4	3	238	245	252	257	244	198	154	10	22	25	20	11	7	4	164	155	136	124	124	128	129
20	29	38	31	16	8	4	3	225	227	233	240	229	193	164	8	17	19	15	8	5	3	157	149	131	115	113	117	118
24	37	49	34	14	6	3	2	197	196	192	182	180	183	216	2	5	6	7	4	2	2	90	94	81	44	21	34	69
28	35	45	37	18	7	1	2	181	176	161	137	126	149	273	2	5	10	14	11	5	2	8	351	336	336	330	334	22
32	32	40	34	22	10	3	4	169	158	135	106	84	20	298	2	7	13	21	17	8	2	322	321	309	315	312	311	347
36	32	36	31	25	14	6	5	159	141	107	77	53	7	309	3	7	12	21	20	9	1	301	296	285	297	296	288	297
40	30	34	32	29	18	9	5	150	124	82	53	33	1	315	3	7	12	20	20	10	2	281	275	256	275	277	261	221
44	27	33	35	33	20	10	6	139	110	64	37	21	354	317	4	7	13	19	20	11	3	278	266	235	253	257	237	195
48	23	30	36	34	21	11	6	130	97	52	27	10	343	308	4	8	14	19	20	13	5	270	263	224	239	245	222	188
52	19	26	35	32	18	11	6	125	85	38	16	357	326	293	4	8	17	21	21	14	6	271	264	220	229	235	214	189
56	13	18	32	28	15	10	6	131	68	19	357	333	301	268	4	10	21	25	23	16	7	263	258	219	225	232	212	195
60	10	10	31	27	14	9	7	165	35	353	330	298	265	232	5	12	25	32	28	19	8	261	249	217	222	228	212	203
64	15	10	35	31	17	10	9	209	309	327	307	270	228	199	6	14	29	37	34	21	9	253	236	214	219	223	209	205
68	24	21	39	36	20	14	12	222	273	308	294	255	208	181	6	16	32	41	39	23	9	252	224	211	215	218	205	205
72	35	34	44	41	24	16	15	226	259	295	286	248	202	176	7	20	34	44	42	25	10	249	214	206	211	213	200	201
76	43	44	47	44	26	18	17	227	249	285	282	245	205	179	6	22	35	45	43	26	11	248	206	201	206	207	192	196
80	53	54	48	47	29	19	18	225	242	277	278	245	213	186	6	24	36	47	44	29	12	251	200	195	201	201	186	192

SEPTEMBER

18	25	55	69	50	26	12	6	256	225	213	208	203	192	176	3	11	17	10	5	2	1	235	310	321	317	351	16	29
20	22	52	62	44	24	11	5	225	207	200	197	192	182	173	2	9	16	10	4	2	1	241	321	325	319	350	16	31
24	23	48	55	38	21	10	5	140	162	165	163	161	160	175	2	8	13	8	4	2	2	353	348	333	319	346	19	36
28	33	52	59	42	21	8	4	104	127	133	130	131	143	189	2	8	10	7	3	1	2	355	353	332	314	337	24	43
32	43	57	62	46	21	5	5	88	105	113	109	106	136	214	2	7	9	6	3	1	2	352	352	325	305	324	37	50
36	51	62	60	44	18	1	7	79	90	98	94	84	202	229	2	7	9	6	3	1	2	345	347	318	300	318	56	57
40	57	65	54	36	14	6	9	72	79	87	80	55	277	236	2	7	10	7	3	1	2	334	343	314	303	322	66	63
44	61	66	46	28	12	10	11	68	72	76	66	20	278	238	2	8	12	7	4	1	2	327	337	312	308	332	65	68
48	62	63	40	24	14	14	12	63	64	66	50	356	279	240	2	9	13	8	4	1	2	322	333	310	311	341	62	69
52	61	60	35	23	17	16	13	57	54	48	29	343	281	241	2	10	14	8	4	2	2	328	327	306	309	351	61	61
56	60	60	36	26	22	17	14	49	41	25	6	336	284	242	2	11	15	8	3	2	1	337	324	301	303	359	63	50
60	60	64	44	34	26	19	14	39	27	3	348	330	282	240	2	11	16	8	2	2	1	346	321	298	293	360	66	58
64	57	67	51	40	29	19	15	28	15	349	337	324	277	236	1	11	16	9	1	3	2	344	317	294	285	317	68	59
68	55	70	57	45	31	20	15	18	5	340	329	318	270	230	1	11	17	11	2	3	2	318	313	292	280	259	70	100
72	52	69	60	47	32	21	15	9	358	334	324	313	263	227	1	10	17	12	3	3	3	219	306	289	277	251	72	102
76	47	66	58	47	33	23	16	2	353	329	320	309	260	227	2	10	18	14	4	2	3	194	301	288	278	252	75	93
80	45	62	58	47	35	25	16	355	348	325	317	305	258	229	3	10	19	15	5	2	2	186	294	287	278	252	79	68

OCTOBER

18	38	60	58	36	18	8	4	218	211	206	204	197	174	151	5	11	12	9	6	3	1	122	103	75	82	87	77	331
20	42	64	61	37	19	8	4	207	201	196	195	189	170	154	4	9	11	8	5	2	1	117	100	72	82	88	79	347
24	46	73	70	42	21	9	4	187	183	179	175	171	162	165	1	6	10	6	3	1	0	62	82	65	81	90	91	64
28	45	75	76	48	23	9	4	174	171	166	160	155	155	181	2	6	11	6	1	0	1	7	61	59	77	84	201	96
32	42	72	75	49	23	7	4	166	164	158	149	142	148	200	2	8	13	7	1	1	1	6	59	61	74	39	230	113
36	38	64	66	43	20	5	4	161	161	154	140	129	141	215	2	10	16	9	1	1	1	24	65	66	75	41	230	123
40	34	55	55	35	16	3	5	158	159	150	132	113	133	224	2	12	19	11	2	1	1	52	71	71	77	54	224	132
44	31	47	42	26	12	1	6	155	158	148	122	93	106	230	2	15	22	13	3	1	1	73	75	74	77	61	204	140
48	27	39	32	19	11	1	7	153	158	145	105	67	320	235	2	16	23	14	4	1	1	81	78	75	77	63	156	145
52	23	29	20	15	10	3	8	150	158	140	80	40	299	239	2	17	23	14	4	1	0	85	81	75	77	67	125	138
56	18	20	11	13	9	3	8	144	158	128	47	17	274	240	2	17	23	14	4	2	0	83	82	74	78	71	117	16
60	14	12	2	12	7	5	9	138	160	78	20	354	239	234	2	18	24	14	4	2	0	78	83	74	79	75	111	61
64	10	8	2	10	5	7	9	140	175	316	358	327	218	223	1	18	24	14	4	2	0	67	82	74	82	74	96	88
68	8	8	6	8	4	9	9	155	199	276	332	292	207	209	2	19	25	14	4	2	1	61	80	78	85	76	62	75
72	8	11	9	7	5	11	9	180	209	250	305	272	204	198	3	19	26	14	4	3	2	56	79	80	87	74	43	41
76	12	16	13	7	5	11	9	194	211	237	286	274	204	189	5	20	28	15	5	5	4	53	78	81	89	72	40	26
80	16	21	17	7	5	10	8	197	212	232	276	291	209	179	8	20	30	16	6	8	7	51	77	82	90	78	42	20

NOVEMBER

18	12	21	24	20	10	5	5	222	225	216	209	185	134	114	2	5	3	3	3	2	0	212	209	214	195	133	101	290
20	13	20	23	18	10	4	4	202	204	198	193	175	137	122	2	4	3	3	3	2	0	216	211	211	195	143	112	188
24	17	24	25	19	9	4	3	175	167	160	157	153	147	150	2	3	3	3	3	1	1	227	216	201	196	170	144	136
28	17	25	27	20	9	3	3	163	150	138	134	140	160	173	2	2	3	3	3	2	2	234	215	184	189	189	168	134
32	13	20	23	18	7	3	3	158	139	125	121	134	174	184	2	2	3	3	4	2	2							

N HEMISPHERE AMPLITUDE (0.1%) AND PHASE (DEGREES LONGITUDE E) OF WAVES 1 AND 2 OF PRESSURE/(ZONAL MEAN PRESSURE) - 1

KM LAT=	WAVE 1 AMPLITUDE (0.1%)								WAVE 1 PHASE (DEGREES)								WAVE 2 AMPLITUDE (0.1%)								WAVE 2 PHASE (DEGREES)								BODEG
	20	30	40	50	60	70	80		20	30	40	50	60	70	80		20	30	40	50	60	70	80		20	30	40	50	60	70	80		
SEPTEMBER																																	
18	5	7	6	6	4	2	0		154	166	206	234	209	185	68		2	1	1	6	8	6	2		171	188	350	35	39	38	23		
20	4	6	6	6	4	2	1		161	172	204	229	217	211	259		1	1	2	5	7	6	2		170	191	354	30	32	33	21		
24	4	5	6	6	5	4	2		180	189	201	216	226	239	257		0	1	2	4	6	5	2		67	350	360	12	14	17	18		
28	4	5	5	5	6	6	4		200	208	199	201	224	240	256		1	2	2	3	4	3	1		359	357	5	349	343	347	12		
32	4	5	5	6	6	6	4		212	221	200	188	212	233	255		2	3	3	2	3	3	1		357	357	9	327	304	307	356		
36	4	6	5	6	7	6	4		216	227	203	180	192	214	254		3	4	3	1	3	3	0		356	357	12	313	267	269	241		
40	4	6	5	6	7	6	2		214	228	208	174	172	186	249		3	5	3	0	3	3	1		355	357	15	84	234	242	204		
44	4	6	4	5	8	6	1		210	226	212	170	156	160	234		3	5	4	1	3	4	1		355	356	18	103	205	222	198		
48	4	5	4	5	8	6	0		208	225	215	165	145	144	27		3	5	4	2	4	4	1		358	358	19	98	188	209	200		
52	5	5	3	4	8	6	1		210	223	220	160	138	133	7		3	5	4	3	4	4	2		2	0	20	94	174	201	209		
56	6	6	2	4	7	5	2		218	227	232	165	139	128	347		3	5	4	4	4	5	2		2	3	21	96	164	198	224		
60	6	7	3	4	6	4	3		227	234	248	186	148	128	341		3	5	4	5	5	4	2		354	5	23	98	156	198	243		
64	7	9	4	4	5	3	4		234	241	252	208	162	134	342		4	5	5	6	4	4	3		346	7	28	100	146	199	252		
68	8	11	6	4	5	3	4		235	244	254	225	174	142	352		5	5	5	7	4	2	2		343	12	33	102	136	202	259		
72	9	12	7	4	4	4	4		230	244	256	237	173	146	13		5	5	5	7	4	0	2		347	22	38	102	124	200	271		
76	9	13	8	2	3	5	6		220	243	261	257	147	143	34		4	5	5	7	4	2	1		2	35	44	100	109	31	15		
80	10	13	8	2	4	7	8		207	239	269	337	107	141	47		4	6	5	8	4	4	3		26	48	50	98	96	32	59		
OCTOBER																																	
18	7	9	8	10	12	13	11		150	161	207	281	302	320	325		2	2	3	8	12	11	5		223	279	2	26	18	6	358		
20	6	8	8	10	13	13	11		154	167	207	266	282	299	311		1	1	4	8	13	12	5		232	301	358	15	12	4	359		
24	4	5	8	12	17	17	11		172	182	200	227	241	251	269		1	2	4	9	14	14	6		4	356	348	354	358	359	358		
28	3	3	6	16	26	27	15		212	217	173	185	200	208	215		2	2	5	11	16	15	6		16	10	340	339	345	351	353		
32	3	2	8	26	42	45	27		258	293	125	152	168	177	179		3	3	5	12	17	15	6		16	15	334	328	335	341	343		
36	5	5	13	39	64	70	43		278	335	98	133	148	158	159		3	3	4	11	17	15	7		12	13	328	319	324	328	331		
40	6	7	18	50	83	90	55		288	351	86	121	137	146	148		2	3	4	10	16	15	7		6	8	323	310	313	312	318		
44	7	9	23	58	95	101	60		294	358	79	113	130	138	141		2	2	3	8	14	15	7		360	3	320	302	301	297	306		
48	8	10	26	63	100	104	61		297	360	74	107	124	132	135		2	2	3	7	13	14	7		358	356	321	298	291	284	299		
52	9	12	28	67	104	106	61		298	359	71	103	120	127	130		2	2	3	6	11	14	7		2	349	321	294	280	272	297		
56	11	13	31	70	104	103	60		300	358	67	99	116	124	126		2	2	4	6	10	14	8		2	334	325	292	269	263	299		
60	12	15	32	69	99	93	57		303	359	62	94	113	122	124		2	3	4	5	8	13	7		352	323	326	294	260	261	302		
64	12	16	33	65	93	82	55		307	359	55	89	110	122	124		3	3	4	4	7	12	7		343	321	332	307	260	267	306		
68	12	16	32	60	84	71	51		309	358	48	85	108	124	124		4	3	5	5	6	11	5		337	325	335	322	270	279	309		
72	11	15	30	54	77	62	48		307	352	42	81	107	128	126		3	3	5	6	5	11	3		335	335	334	329	290	292	311		
76	9	13	27	49	71	54	44		297	338	37	79	108	134	129		1	2	6	7	6	12	0		342	2	335	330	314	303	175		
80	8	11	23	45	66	50	40		277	314	33	80	109	142	133		1	2	7	8	8	13	4		134	64	332	326	326	311	139		
NOVEMBER																																	
18	10	14	13	20	26	23	15		137	170	225	270	273	278	273		2	3	8	13	17	14	7		255	320	16	30	26	17	14		
20	8	13	13	21	32	31	21		141	170	214	252	257	260	258		1	3	7	13	18	16	7		272	328	6	18	19	15	17		
24	4	8	14	30	51	57	40		147	162	183	215	229	236	239		1	3	7	14	21	18	7		360	339	340	353	5	12	23		
28	1	5	19	46	78	87	59		53	106	152	192	210	220	225		2	3	7	16	23	20	8		35	350	315	333	354	10	30		
32	5	10	27	63	104	110	72		6	62	132	177	196	206	212		2	1	6	15	23	21	9		55	10	290	318	347	9	32		
36	10	16	32	75	121	125	78		8	51	119	166	185	194	199		2	1	4	12	21	21	9		74	80	260	304	341	5	25		
40	13	21	35	78	127	129	75		9	46	111	159	177	184	188		2	2	3	9	18	20	9		89	105	213	285	333	356	15		
44	16	23	35	77	128	127	76		10	42	103	154	171	177	182		2	3	4	5	14	17	9		93	100	160	256	325	349	9		
48	18	25	34	76	128	126	73		9	37	96	149	165	172	176		2	4	5	3	11	15	8		87	89	130	209	320	343	6		
52	19	26	34	77	129	125	69		7	31	88	143	159	166	170		2	5	6	4	9	14	8		77	74	111	164	314	338	3		
56	19	26	35	78	128	122	65		6	27	81	136	152	160	164		2	6	7	5	9	14	7		64	61	99	152	307	332	354		
60	17	23	33	75	122	114	59		6	25	76	129	146	154	158		1	6	7	5	9	14	7		28	41	84	156	296	327	346		
64	13	19	29	70	111	105	54		4	20	72	124	140	148	152		1	7	6	3	8	15	7		328	23	63	165	294	325	332		
68	9	15	25	62	97	94	49		358	12	68	119	135	143	148		2	8	7	1	8	15	7		310	14	45	188	296	328	325		
72	7	13	20	53	84	82	43		343	360	60	115	130	139	145		1	9	7	1	8	16	7		342	15	35	305	303	332	321		
76	8	14	18	43	70	70	38		326	349	48	113	128	136	143		2	9	8	3	8	16	7		61	25	36	354	314	337	321		
80	1																																

N HEMISPHERE AMPLITUDE (0.1%) AND PHASE (DEGREES LONGITUDE E) OF WAVES 1 AND 2 OF PRESSURE/(ZONAL MEAN PRESSURE) - 1

WAVE 1 AMPLITUDE (0.1%) WAVE 1 PHASE (DEGREES) WAVE 2 AMPLITUDE (0.1%) WAVE 2 PHASE (DEGREES)
KM LAT= 20 30 40 50 60 70 80 20 30 40 50 60 70 80 20 30 40 50 60 70 80 20 30 40 50 60 70 80 DEGR

JANUARY

18	8	10	11	10	10	4	1	164	199	257	248	207	206	115	3	4	6	21	35	28	12	290	293	10	36	35	30	29
20	7	10	12	18	30	28	16	164	193	226	209	193	192	193	2	4	8	23	40	34	14	302	310	5	26	27	24	26
24	4	9	20	44	76	84	55	161	177	189	188	185	187	190	2	5	12	30	50	46	19	343	345	357	9	13	16	22
28	1	6	25	64	113	128	84	112	152	171	178	180	182	185	2	7	17	37	59	53	21	1	350	349	357	4	10	17
32	3	5	25	73	134	150	97	1	88	152	169	174	177	179	3	9	22	43	62	55	21	350	342	342	349	357	4	11
36	5	10	22	72	138	154	101	357	43	120	156	167	171	173	3	10	25	45	59	50	19	329	329	335	342	351	358	4
40	6	15	24	64	128	146	100	355	29	81	140	159	164	166	4	12	26	42	51	43	17	309	315	327	335	344	351	356
44	7	20	31	58	115	134	96	354	22	58	121	149	156	159	4	13	26	38	42	35	16	293	303	320	328	337	343	354
48	7	22	37	55	102	120	88	352	18	48	105	140	149	154	4	13	25	35	37	29	15	282	293	313	322	331	339	0
52	8	24	42	55	91	105	79	351	16	42	91	131	144	150	5	14	25	34	33	24	14	271	284	308	315	322	335	0
56	8	24	43	53	80	90	69	349	14	40	82	125	140	148	5	14	24	34	31	20	13	260	276	304	308	311	335	11
60	8	23	42	47	66	74	59	348	11	38	75	121	139	147	5	14	23	32	29	16	12	251	269	305	301	300	335	8
64	8	21	38	38	51	59	49	347	7	36	70	122	142	149	5	13	21	29	26	14	9	238	262	306	295	290	337	356
68	8	19	36	28	39	47	41	345	3	33	69	131	152	154	5	12	19	25	23	12	8	230	257	308	291	284	339	339
72	8	19	34	20	33	42	36	342	357	29	74	149	166	163	5	11	19	22	21	12	8	222	257	310	291	279	338	318
76	9	20	34	13	35	44	36	340	353	25	91	170	180	172	4	9	19	20	19	12	8	218	263	311	294	281	338	306
80	10	23	37	11	43	51	39	339	350	22	127	182	188	178	4	8	21	18	17	12	8	221	276	312	301	282	334	297

FEBRUARY

18	8	7	11	16	18	14	9	161	194	266	273	244	226	228	4	2	8	22	28	26	14	21	349	11	31	36	26	355
20	7	7	11	19	29	30	20	161	192	246	249	231	220	220	3	3	9	23	34	29	12	37	351	4	27	31	22	10
24	4	7	14	32	57	66	46	156	184	210	218	216	213	213	4	2	7	21	47	36	12	174	46	30	22	23	19	28
28	2	6	18	45	79	92	64	148	171	186	199	206	207	207	4	6	13	28	51	38	10	131	352	11	18	15	16	15
32	1	5	20	53	92	103	72	124	150	167	184	195	200	201	2	4	11	25	46	36	14	134	355	23	15	10	18	344
36	1	5	20	55	92	103	72	97	117	146	168	182	191	194	1	3	5	17	49	30	14	276	89	72	16	9	1	310
40	1	5	20	54	88	95	69	89	86	123	152	169	181	186	2	2	6	12	27	20	14	331	354	62	26	4	354	292
44	1	6	20	52	83	87	63	74	66	104	138	158	168	179	4	5	10	11	26	16	14	321	57	137	53	7	324	281
48	1	8	23	53	80	79	59	30	53	91	128	146	158	173	2	3	6	11	16	11	15	6	353	81	56	354	318	281
52	2	10	25	54	73	72	53	17	49	85	120	138	149	169	4	5	12	10	17	10	15	347	71	136	70	7	306	281
56	3	13	27	52	64	60	47	19	50	83	114	129	142	167	3	2	7	11	15	10	14	45	13	86	67	1	306	279
60	3	14	28	45	48	46	40	30	57	83	107	119	136	167	3	9	16	13	17	9	14	358	86	129	73	6	311	290
64	2	13	24	35	32	28	31	40	63	83	99	105	130	168	5	4	14	16	21	11	14	78	72	103	70	9	313	284
68	1	11	21	24	17	10	23	58	69	81	87	78	122	174	4	12	18	19	21	10	14	22	86	108	64	3	330	305
72	0	7	15	14	11	6	14	159	70	75	67	9	311	190	6	11	20	21	28	14	13	67	82	108	63	12	319	287
76	2	4	11	9	18	19	11	234	51	60	25	321	298	228	6	9	17	23	25	12	14	62	75	78	53	1	339	312
80	3	3	9	10	28	30	13	247	336	27	329	302	292	270	5	15	20	25	34	15	14	31	81	106	53	13	322	285

MARCH

18	8	9	8	13	21	29	25	155	183	259	282	253	235	226	1	1	8	20	31	29	13	305	27	62	51	34	27	21
20	6	9	10	18	34	44	35	159	186	235	248	236	227	220	1	1	7	18	30	28	12	327	26	51	43	29	23	19
24	4	7	16	38	67	78	56	170	190	209	221	222	219	215	1	3	6	15	26	24	10	37	29	27	23	17	15	14
28	1	4	18	51	90	102	70	195	183	190	207	213	214	212	2	3	6	13	22	21	9	56	33	14	8	10	12	16
32	1	2	16	53	96	107	72	328	92	164	193	204	208	210	2	4	6	11	19	18	9	60	37	19	8	12	15	23
36	3	6	16	46	86	96	63	348	45	124	173	192	200	207	1	4	6	8	15	15	9	54	42	38	27	22	24	31
40	4	11	20	41	71	76	49	353	37	91	147	176	189	202	1	4	6	8	12	13	9	35	46	61	61	38	35	40
44	5	14	26	42	61	59	35	353	33	74	122	156	173	194	1	4	7	10	11	11	9	356	48	75	83	56	47	44
48	5	16	30	46	56	49	25	350	30	66	106	139	157	184	1	3	7	10	10	10	9	325	46	81	91	66	54	47
52	6	17	33	49	54	42	18	345	27	61	94	124	140	174	1	3	7	10	9	10	9	318	40	86	95	76	61	49
56	6	18	34	49	48	34	9	342	26	57	84	108	121	165	2	4	7	9	7	9	10	320	35	91	103	90	68	53
60	6	19	35	47	43	27	2	342	28	51	73	89	93	23	2	4	7	9	7	10	11	331	38	98	113	112	74	59
64	5	17	34	42	37	24	11	340	29	45	63	68	57	347	2	4	8	9	8	11	12	348	47	100	118	116	74	64
68	5	15	34	37	34	26	19	333	30	38	52	49	27	340	1	4	9	10	9	12	12	25	60	99	117	111	69	69
72	5	12	33	33	31	29	24	316	28	31	43	33	9	336	2	4	9	11	11	13	13	70	71	96	113	102	65	72
76	6	10	33	30	29	31	25	299	20	24	35	21	356	332	3	5	10	11	12	14	13	99	77	91	106	89	59	76
80	9	9	34	28	27	31	27	289	5	18	28	12	349	327	4	5	11	13	15	16	13	114	81	86	98	81	57	79

APRIL

18	5	9	10	15	18	12	5	148	167	212	267	277	264	232	1	1	4	7	8	6	2	200	169	115	92	58	43	39
20	4	8	10	14	17	13	5	153	172	210	255	264	254	229	0	1	4	7	8	5	2	179	130	104	86	57	46	44
24	3	5	9	15	18	14	8	171	191	211	229	234	230	221	1	2	4	6	5	3	1	58	67	73	70	57	58	63
28	3	4	7	15	20	16	10	199	228	220	212	212	210	213	2	3	4	5	3	2	1	43	51	53	48	54	94	107
32	3	5	5	11	19	18	11	217	256	247	205	199	197	203	2	4	4	5	2	2	1	36	46	42	31	53	141	

S HEMISPHERE AMPLITUDE (0.12) AND PHASE (DEGREES LONGITUDE E) OF WAVES 1 AND 2 OF DENSITY/(ZONAL MEAN DENSITY) - 1

WAVE 1 AMPLITUDE (0.12) WAVE 1 PHASE (DEGREES) WAVE 2 AMPLITUDE (0.12) WAVE 2 PHASE (DEGREES)
 KM LAT= -80 -70 -60 -50 -40 -30 -20 -80 -70 -60 -50 -40 -30 -20 -80 -70 -60 -50 -40 -30 -20 -80 -70 -60 -50 -40 -30 -20DEG

APRIL

18	13	20	25	20	8	4	5	267	256	236	228	221	182	169	1	2	4	4	3	1	1	67	349	10	32	82	97	320
20	14	21	25	21	8	4	5	262	252	234	225	216	179	169	1	2	4	4	3	1	1	63	355	13	35	83	97	320
24	18	25	27	20	9	5	5	240	235	224	215	202	175	171	2	2	4	4	3	1	1	50	21	27	41	87	100	346
28	24	30	27	18	8	5	5	219	217	210	200	187	172	174	2	3	4	4	3	2	1	43	45	44	45	88	101	36
32	27	31	23	14	6	5	4	209	203	191	177	167	172	181	3	5	5	4	2	2	1	41	49	54	41	85	102	70
36	25	26	17	9	3	4	5	204	192	162	126	110	176	191	3	5	5	4	2	2	1	44	42	51	29	66	101	85
40	18	14	12	12	6	2	5	205	180	110	68	39	197	201	3	5	5	4	2	2	1	49	27	38	17	37	99	91
44	11	3	14	17	10	2	5	214	143	63	37	12	259	211	2	5	6	6	3	1	1	53	12	14	5	11	77	92
48	7	5	17	19	11	3	6	215	68	52	29	6	278	215	2	5	6	6	4	1	1	48	4	2	357	359	51	88
52	4	9	20	21	12	2	6	191	64	51	29	8	291	214	2	5	6	6	4	1	1	45	356	355	348	351	38	96
56	4	16	27	25	13	2	7	111	54	45	30	14	310	212	2	4	5	5	3	0	0	64	345	358	339	346	13	117
60	8	23	32	30	16	4	8	73	43	34	24	10	307	217	2	4	4	4	2	1	0	93	342	13	343	5	217	205
64	11	28	38	33	17	5	9	55	32	22	14	0	294	227	2	4	5	4	2	1	1	143	349	20	2	41	222	263
68	14	32	42	36	18	7	10	41	21	11	3	345	281	235	3	6	6	6	4	0	2	172	357	18	18	56	353	278
72	16	36	46	39	19	10	12	28	11	3	353	331	271	238	4	7	7	8	6	2	3	181	5	14	25	56	24	293
76	17	38	48	39	20	11	13	14	3	357	345	320	264	235	5	9	9	9	7	3	3	183	10	11	28	57	30	302
80	17	38	48	40	21	12	13	358	355	352	340	312	260	228	5	10	10	10	8	4	3	182	15	9	30	55	36	310

MAY

18	4	11	15	11	6	4	5	210	254	252	260	263	175	120	7	9	6	2	2	3	2	144	152	174	194	140	94	74
20	5	12	15	14	5	5	5	211	244	245	253	254	172	125	7	9	6	2	2	4	2	144	152	171	182	128	91	70
24	16	20	17	9	4	5	5	201	204	205	213	206	160	139	6	10	7	2	2	3	2	146	149	156	134	95	78	64
28	28	36	30	15	6	5	4	191	178	170	167	151	150	157	4	8	6	4	3	3	2	150	143	133	94	62	58	54
32	30	46	48	25	10	4	2	182	165	154	145	127	135	193	2	4	5	5	4	2	1	160	135	102	66	36	25	47
36	28	47	56	33	11	2	3	171	155	143	131	107	64	291	2	1	3	5	4	2	0	179	103	38	27	7	340	29
40	24	41	50	32	11	5	6	155	144	135	120	84	2	317	2	2	4	6	5	3	1	190	316	332	338	331	302	250
44	22	35	41	26	10	7	8	143	134	127	109	58	347	324	2	3	6	7	6	4	1	197	314	315	308	289	272	226
48	21	30	35	23	11	9	10	136	126	117	96	43	346	330	2	3	6	8	7	5	2	207	316	310	294	269	257	221
52	21	29	33	24	13	12	12	130	119	108	84	35	352	337	2	3	5	8	8	6	2	213	320	311	284	258	247	223
56	22	30	33	25	16	15	13	119	105	94	71	29	359	344	3	3	5	7	8	7	3	213	319	314	281	254	241	232
60	25	32	34	25	18	17	13	109	93	80	55	16	358	345	3	3	5	7	8	8	4	208	314	315	284	253	238	220
64	28	35	33	25	18	15	11	101	82	66	37	4	354	340	4	3	6	8	8	8	5	202	307	313	291	247	230	218
68	30	37	33	26	17	10	8	96	74	54	21	351	342	328	4	3	8	8	8	7	6	195	300	314	295	238	218	201
72	31	38	33	26	17	6	6	93	69	44	7	339	313	307	4	3	9	9	8	7	7	189	296	315	297	230	207	189
76	30	36	31	25	15	5	4	93	66	37	358	327	272	283	3	3	10	10	8	6	7	185	295	317	298	225	202	184
80	25	31	27	23	14	6	3	94	65	31	349	314	247	254	3	3	11	10	8	6	7	184	299	321	299	225	208	184

JUNE

18	14	21	26	14	5	7	8	225	237	242	233	217	151	127	7	4	4	6	9	8	4	170	163	346	42	66	81	80
20	16	23	27	14	6	7	8	226	234	238	226	204	152	130	7	4	4	6	8	7	3	171	164	345	43	67	82	82
24	26	33	32	17	9	8	6	220	220	220	205	180	154	142	5	5	2	4	6	4	2	176	154	354	58	72	88	82
28	33	41	37	22	14	8	5	214	205	198	183	165	154	161	1	5	1	3	2	1	1	177	121	84	109	90	113	67
32	29	39	39	26	15	7	4	209	196	186	168	152	150	195	1	5	3	4	1	1	1	164	95	97	145	166	226	1
36	24	32	32	21	12	3	4	205	190	180	155	131	134	234	1	5	4	5	1	1	2	164	81	79	125	72	0	15
40	20	26	21	10	8	2	4	206	189	181	133	76	17	261	2	5	5	6	6	4	3	160	71	58	82	49	32	29
44	18	21	13	4	9	5	4	204	188	184	68	25	349	264	2	5	6	9	12	9	5	158	66	44	56	40	34	31
48	15	17	7	7	11	6	3	201	185	180	20	7	345	272	2	5	7	10	14	11	6	164	58	36	49	40	34	32
52	12	12	2	10	13	8	4	196	178	131	6	357	343	296	1	6	7	10	15	11	6	197	52	31	49	44	37	34
56	8	5	8	16	14	9	5	196	150	11	356	349	339	315	3	6	8	10	14	10	5	212	48	29	53	55	45	43
60	4	5	17	22	15	8	3	215	46	1	349	339	324	299	4	5	8	9	14	11	7	211	48	29	54	48	59	53
64	4	11	24	27	14	5	4	281	14	354	343	322	260	191	6	4	8	9	14	12	8	206	50	29	57	73	64	56
68	8	18	29	29	13	12	13	306	3	348	337	299	203	170	7	4	8	9	13	14	10	202	56	30	55	72	60	50
72	11	22	33	31	14	21	23	308	356	342	332	278	190	166	8	3	8	10	14	17	11	199	63	31	53	64	53	43
76	14	24	35	33	16	28	28	305	348	336	327	264	185	165	8	4	8	11	14	18	11	196	68	32	50	55	45	35
80	15	24	36	34	16	31	29	296	338	329	323	260	181	164	7	5	10	13	17	19	10	193	67	33	48	46	37	28

JULY

18	11	16	33	20	11	2	4	347	276	260	249	289	319	119	10	10	5	4	5	7	6	174	196	239	38	119	98	124
20	10	22	37	23	10	1	4	328	261	252	238	271	259	131	10	10	7	4	6	6	6	166	200	241	32	118	102	118
24	23	46	51	32	13	6	4	236	227	225	207	208	184	159	4	10	12	2	1	5	4	155	213	243	347	81	62	123
28	27	50	59	47	22	11	5	220	208	199	183	176	173	177	5	4	20	4	1	3	2	85	223	238	278	284	28	118
32	18	37	51	53	29	12	4	212	192	178	161	155	160	193	6	2	19	10	6	4	1	81	226	228	239	257	331	170
36	9	24	37	49	28	8	1	200	166	148	130	121	125	257	3	3	24	20	13	4	2	82	192	217	221	242	285	200
40	3	17	29	46	31	11	4	95	118	107	93	75	49	341	5	4	25	24	18	5	3	93	157	207	209	217	236	191
44	8	22	34	50	40	19	8	65	84	75	66	45	23	351	3	7	24	26	20	6	4	98	164	195	189	211	267	184
48	12	28	42	55	45	25	10	68	70	59	53	33	15	355	4	7	23	23	20	8	5	96	148	192	199	215	183	168
52	14	32	48	60	50	28	11	73	64	52	45	25	10	353	4	6	19	20	17	8	4	87	152	184	177	184	157	163
56	17	38	57	68	55	31	13	72	59	45	38	19	2	346	5	4	21	19	17	9	5	86	147	195	177	174	158	150
60	21	42	63	73	60	33	14	68	55	39	33	12	353	337	4	4	20	20	16	7	5	85	169	195	184	182	160	155
64	27	47	66	73	56	31	12	61	50	34	27	5	343	328	3	4	26	24	17	8	6	90	178	207	196	192	177	152
68	31	50	66	68	50	27	9	55	45	30	22	357	331	312	2	7	26	28	20	9	7	102	190	207	205	204	188	165
72	36	52	64	63	44	22	6	50	41	26	19	350	317	277	1	9	33	35	25	10	9	143	192	213	210	213	196	171
76	38	51	62	59	39	18	6	46	39	25	17	345	305	245	2	11	34	39	28	12	10	157	192	210	211	210	198	174
80	38	49	56	55	36	16	6	42	37	25	20	346	300	237	3	14	39	43	30	11	10	225	192	209	209	214	199	184

S HEMISPHERE AMPLITUDE (0.1%) AND PHASE (DEGREES LONGITUDE E) OF WAVES 1 AND 2 OF DENSITY/(ZONAL MEAN DENSITY) - 1

KM LAT	WAVE 1 AMPLITUDE (0.1%)								WAVE 1 PHASE (DEGREES)								WAVE 2 AMPLITUDE (0.1%)								WAVE 2 PHASE (DEGREES)							
	-80	-70	-60	-50	-40	-30	-20		-80	-70	-60	-50	-40	-30	-20		-80	-70	-60	-50	-40	-30	-20		-80	-70	-60	-50	-40	-30	-20	20E6

AUGUST

18	10	29	44	33	15	5	5		285	297	287	281	268	211	138		12	30	40	36	22	14	6		173	161	144	135	137	140	145
20	20	35	44	32	14	5	5		287	283	279	276	262	205	141		15	32	39	34	20	13	6		169	159	142	132	134	137	141
24	41	54	42	23	12	6	4		221	227	241	249	236	195	157		7	19	27	24	14	8	4		138	140	129	120	120	120	121
28	41	58	46	20	10	5	2		199	198	195	197	195	183	187		3	6	9	11	7	4	2		73	65	63	67	67	67	75
32	37	53	48	26	11	4	2		187	182	168	154	153	170	246		2	8	14	19	13	7	3		25	1	346	350	352	358	22
36	36	46	42	28	12	1	3		175	166	147	125	113	93	288		3	8	17	27	21	10	3		345	335	323	325	327	330	355
40	36	41	36	28	14	5	5		166	150	123	94	70	17	307		3	7	15	27	25	12	3		305	304	300	309	310	308	330
44	35	40	35	31	19	9	5		155	133	94	62	43	13	324		3	7	12	22	23	11	2		290	276	268	282	285	277	274
48	32	39	40	37	24	12	6		142	116	74	45	29	9	334		4	7	11	19	21	11	2		277	263	243	263	265	248	199
52	29	40	44	41	26	14	7		126	102	63	36	20	357	329		3	6	11	16	19	11	4		280	269	226	246	249	226	176
56	25	36	44	40	25	15	9		113	89	52	29	9	339	312		3	7	13	15	16	12	6		276	279	221	234	239	211	174
60	20	31	40	33	19	14	9		107	74	35	12	348	317	292		3	9	18	22	19	14	7		275	279	223	230	239	215	193
64	12	21	36	27	15	11	8		117	52	9	345	314	286	262		4	11	24	29	25	17	8		263	265	221	226	234	216	204
68	8	12	36	29	16	9	7		182	2	339	315	277	236	207		5	13	28	36	33	20	9		257	249	219	223	228	215	209
72	19	18	41	35	19	13	12		222	296	316	297	257	204	177		7	16	32	42	40	23	9		250	232	215	219	223	211	208
76	29	29	45	40	22	16	15		229	271	301	288	248	195	170		7	19	34	44	43	24	9		248	220	210	215	218	205	205
80	41	40	48	44	25	18	17		228	257	290	283	244	196	171		7	21	35	46	45	26	10		248	211	205	210	212	198	201

SEPTEMBER

18	36	72	96	72	37	16	7		298	255	235	228	224	215	181		5	16	22	12	5	2	1		230	295	312	314	351	14	18
20	45	79	94	69	35	15	7		275	246	231	225	220	209	177		7	15	21	12	5	2	1		228	294	315	316	352	15	14
24	35	71	79	57	29	13	6		212	211	211	209	202	186	167		1	9	17	10	5	2	1		258	329	327	321	355	15	23
28	27	60	66	45	25	12	5		158	170	173	176	171	157	156		2	9	14	9	4	2	2		358	352	338	325	352	15	27
32	31	57	69	50	27	12	4		120	139	139	136	136	136	160		3	8	10	7	3	1	2		360	358	338	317	340	18	34
36	39	60	72	56	28	10	3		98	116	118	113	112	122	190		3	7	8	6	3	1	2		359	356	329	301	319	29	44
40	47	64	71	55	25	4	5		85	98	103	97	92	109	223		2	6	7	5	2	1	3		354	354	321	292	303	59	51
44	58	70	61	43	17	3	8		77	85	91	85	69	274	233		2	7	9	6	3	1	3		343	349	317	298	309	75	62
48	64	72	54	33	12	9	10		74	79	85	76	39	274	235		2	7	11	7	4	1	3		319	346	318	309	321	73	74
52	66	69	47	27	11	12	12		71	75	80	68	12	275	238		2	9	13	9	5	1	3		311	338	316	315	336	59	76
56	63	63	40	23	13	15	13		66	69	72	56	355	281	243		3	10	14	9	5	1	2		318	329	310	319	353	53	59
60	65	63	38	26	21	17	14		57	52	42	23	344	289	247		3	11	15	8	4	2	2		340	327	304	311	8	60	19
64	64	66	43	32	26	18	14		45	34	13	357	336	290	245		3	11	15	7	2	2	1		353	325	299	300	18	65	14
68	62	71	52	40	29	19	15		33	19	354	341	328	282	238		2	11	16	8	1	3	1		355	322	296	288	12	67	82
72	58	73	59	45	30	19	15		21	8	343	332	321	273	230		1	11	16	9	1	3	3		333	316	292	279	262	69	108
76	55	73	61	47	31	20	15		11	0	336	326	315	265	225		1	10	16	11	2	3	4		272	310	290	277	248	70	110
80	51	70	62	49	33	22	16		3	354	331	322	310	260	224		2	10	17	12	3	3	4		213	303	288	275	247	72	105

OCTOBER

18	35	58	58	38	18	7	5		251	242	235	233	225	188	144		9	15	14	12	10	5	1		127	106	80	81	85	75	314
20	40	61	59	38	18	8	5		241	235	230	228	220	184	143		9	15	13	11	9	5	1		128	109	80	83	86	75	318
24	48	70	64	38	20	9	4		211	208	208	208	201	175	147		5	10	11	8	7	3	1		118	108	77	84	89	76	336
28	51	80	74	44	23	10	4		189	185	183	183	179	165	153		1	5	9	6	4	1	0		41	84	62	84	95	84	30
32	49	84	86	55	28	11	4		177	172	168	164	161	156	166		2	4	9	4	1	0	1		349	43	49	76	113	207	86
36	46	81	86	58	28	9	3		168	165	159	152	147	148	186		2	5	10	5	1	1	1		348	41	50	69	284	235	107
40	42	73	79	53	25	7	4		162	160	154	143	135	140	205		2	7	13	7	1	2	1		354	53	59	73	336	235	119
44	39	64	65	43	20	5	4		159	159	151	137	122	131	216		2	11	18	11	2	1	1		39	66	70	77	47	235	130
48	36	57	54	34	16	2	5		157	158	150	129	104	106	222		2	14	22	13	3	1	1		68	72	75	78	57	242	143
52	32	48	42	26	14	2	6		156	158	147	116	79	11	231		3	16	23	15	4	1	1		85	76	76	77	59	238	152
56	28	38	29	20	13	4	7		153	158	141	89	47	337	245		2	17	23	14	5	1	0		89	80	75	76	63	138	150
60	22	24	14	17	12	5	9		142	154	121	52	21	311	250		2	17	23	14	5	2	0		89	83	73	75	78	124	335
64	16	12	6	15	10	4	9		131	149	69	24	359	267	245		1	18	23	13	4	2	0		92	84	72	76	76	130	284
68	11	6	5	12	6	6	9		125	152	356	3	333	223	230		1	19	23	13	3	2	1		92	83	74	80	79	137	179
72	7	4	5	9	4	9	10		134	187	310	339	288	207	214		1	18	24	13	3	1	1		79	81	77	83	79	121	164
76	6	8	7	7	5	12	10		169	207	266	308	255	201	201		2	19	25	14	3	1	1		64	80	80	86	75	36	118
80	9	12	11	7	5	12	10		192	211	246	283	250	200	191		3	19	27	15	4	3	2		57	79	81	88	72	34	46

NOVEMBER

18	19	36	39	30	12	6	6		272	263	250	238	210	128	98		3	6	4	3	5	3	2		202	20
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N HEMISPHERE AMPLITUDE (0.1%) AND PHASE (DEGREES LONGITUDE E) OF WAVES 1 AND 2 OF DENSITY/(ZONAL MEAN DENSITY) - 1

KN LAT= WAVE 1 AMPLITUDE (0.1%) WAVE 1 PHASE (DEGREES) WAVE 2 AMPLITUDE (0.1%) WAVE 2 PHASE (DEGREES) CODES
20 30 40 50 60 70 80 20 30 40 50 60 70 80 20 30 40 50 60 70 80 20 30 40 50 60 70 80

SEPTEMBER

18	7	9	7	7	3	4	3	140	154	209	245	173	125	75	4	3	1	7	10	8	3	173	185	334	47	51	49	25
20	6	8	7	7	3	3	2	142	156	208	244	183	129	75	3	3	1	7	10	8	3	173	184	337	45	49	47	25
24	5	7	6	6	4	2	0	153	164	205	238	219	188	66	2	2	1	6	9	7	3	171	186	345	34	39	39	23
28	4	6	6	6	4	2	0	174	181	200	225	237	248	257	1	0	2	5	7	6	2	163	204	354	14	19	23	19
32	4	5	6	6	7	7	4	199	205	197	206	238	253	256	1	2	2	4	6	5	2	3	358	1	344	348	357	14
36	4	5	6	6	7	8	6	215	222	197	191	228	247	256	2	3	3	3	5	4	1	358	358	5	318	313	320	1
40	4	6	5	6	7	8	5	220	229	200	182	208	230	255	3	4	3	2	4	4	0	356	357	9	298	280	282	303
44	4	6	5	6	8	7	3	217	230	206	178	182	198	244	3	5	3	1	4	4	1	352	355	13	268	247	255	210
48	4	6	5	6	8	7	1	208	228	211	174	162	167	200	3	5	4	0	3	4	1	350	354	17	152	220	232	186
52	4	5	5	5	8	7	1	198	222	212	164	145	146	134	3	4	3	1	4	4	1	356	355	19	102	201	214	178
56	4	5	3	5	9	7	1	194	213	204	145	131	131	67	2	5	4	2	4	5	2	13	358	17	86	184	199	182
60	5	5	1	4	9	6	2	207	213	201	146	132	124	348	2	5	4	4	5	5	2	16	1	15	92	171	196	215
64	6	6	1	4	7	4	4	225	227	242	170	143	122	332	3	5	4	5	5	5	3	1	2	17	96	161	197	237
68	7	8	4	5	6	3	4	238	240	249	204	164	128	326	4	5	5	6	5	5	3	342	0	24	101	151	200	250
72	9	10	6	6	5	2	4	243	246	250	222	185	146	330	5	5	5	6	5	4	4	334	3	30	103	142	205	256
76	9	12	8	6	5	3	4	240	247	251	232	192	152	348	5	5	6	7	4	2	3	335	11	35	104	130	212	260
80	10	13	8	4	4	4	4	231	245	255	244	181	149	20	5	5	6	7	4	1	1	345	24	41	102	117	16	282

OCTOBER

18	9	13	8	12	16	19	15	143	151	204	323	355	4	355	4	3	3	8	10	8	5	216	249	21	59	41	12	356
20	9	12	8	13	17	20	15	143	154	209	314	342	354	348	3	3	3	8	11	9	5	217	254	18	53	37	13	358
24	10	10	16	22	23	18	18	149	164	217	287	309	323	327	1	1	3	8	12	11	5	220	280	5	30	24	11	2
28	5	8	11	19	28	28	19	159	181	219	259	276	287	298	0	1	4	10	15	14	6	354	346	354	3	6	5	4
32	3	5	9	20	32	32	19	185	206	207	225	241	252	262	2	3	5	12	17	15	6	21	14	343	344	351	359	2
36	3	3	7	24	38	42	25	235	249	165	178	194	202	203	3	3	5	14	19	16	7	20	19	336	332	341	352	354
40	4	3	11	36	59	69	43	267	309	116	146	160	167	167	3	3	5	13	19	17	8	17	17	329	322	331	338	339
44	5	6	16	48	83	92	57	283	346	94	128	142	151	153	3	3	4	11	18	18	8	7	11	322	311	317	319	322
48	6	8	21	55	93	101	61	292	359	84	118	134	143	146	2	2	3	9	16	17	7	356	7	319	303	306	306	308
52	7	9	24	62	100	107	62	295	2	79	112	128	135	138	2	2	3	8	14	15	7	354	11	316	298	294	292	297
56	8	10	27	69	109	116	65	294	358	76	107	123	128	131	1	2	3	7	12	15	8	19	12	319	294	284	272	294
60	11	13	31	74	110	113	63	296	358	73	102	118	123	126	1	2	3	6	11	15	8	31	341	319	284	267	257	295
64	12	15	33	74	106	103	60	301	360	67	97	114	120	123	2	3	4	5	9	14	8	4	319	323	284	255	253	301
68	13	17	35	69	98	90	57	309	3	58	91	110	120	122	4	4	4	4	8	12	8	343	315	330	296	249	258	307
72	13	19	35	63	89	77	55	314	4	50	85	108	121	123	5	4	4	4	6	11	8	335	319	336	322	254	271	311
76	12	18	33	57	79	65	51	315	0	43	80	106	125	124	5	4	5	5	5	11	6	331	325	339	336	273	286	314
80	10	15	30	51	73	56	46	308	351	38	78	106	130	127	3	3	5	6	5	12	3	333	339	337	334	298	298	317

NOVEMBER

18	14	19	14	26	27	25	13	130	168	254	314	330	356	6	5	3	9	15	15	10	6	238	296	40	60	49	22	5
20	14	19	15	27	29	25	13	134	171	251	309	324	347	354	4	3	9	15	16	11	6	242	306	36	54	45	22	7
24	11	16	16	26	34	30	18	147	179	237	286	294	301	298	2	4	9	14	19	15	7	271	326	15	31	27	17	11
28	7	12	16	29	48	56	40	163	182	210	243	254	255	254	2	4	9	16	22	18	7	346	339	346	360	8	11	22
32	3	6	19	45	77	89	63	182	163	171	206	224	232	235	2	4	9	19	25	20	7	25	344	319	337	355	13	38
36	2	7	27	66	107	118	78	352	77	142	184	203	214	219	2	2	9	19	26	22	9	46	346	295	321	349	15	40
40	7	14	35	79	126	132	84	5	57	125	170	190	198	202	2	0	7	17	25	24	11	70	30	268	306	344	9	28
44	11	20	37	80	131	132	83	11	53	116	162	181	188	191	2	1	5	12	21	22	10	98	148	233	286	334	358	15
48	14	23	36	78	129	130	80	12	49	111	158	176	182	185	2	3	4	8	16	18	9	109	130	192	266	327	351	11
52	18	26	35	76	130	130	78	10	41	103	155	171	178	181	3	4	5	4	11	14	9	97	111	147	225	323	348	13
56	22	29	35	80	138	135	75	7	32	92	149	164	171	174	4	7	8	4	9	14	9	82	92	120	154	325	344	9
60	23	30	39	83	140	132	70	7	30	82	139	156	163	167	3	7	8	6	9	13	8	75	78	110	148	308	333	3
64	20	26	38	83	134	125	64	8	27	77	131	148	156	160	1	6	7	6	9	14	7	50	53	96	153	295	324	350
68	15	20	33	77	122	115	59	8	25	75	125	142	150	154	2	7	6	5	9	15	6	306	21	72	166	287	322	337
72	10	15	27	69	108	103	52	5	18	73	120	135	144	149	3	8	6	3	8	16	6	292	6	44	192	288	323	324
76	6	12	21	59	93	91	47	352	5	68	116	130	139	145	3	9	7	2	8	16	7	295	4	30	249	297	327	317
80	6	12	18	49	79	77	40	329	352	57	113	127	136	142	1	9	8	2	8	16	7	337	11	28	316	307	333	316

DECEMBER

18	18	16	27	52	54	38	18	144	191	310	347	10	34	67	5	10	12	13	15	9	7	270	291	340	35	48	19	339
20	18	18	26	49	49	32	14	146	192	300	339	1	23	56	4	9	11	13	17	11	7	274	293	342	33	45	25	351
24	13	18	23	36	36	24	12	151	192	260	298	304	296	279	2	5	7	12	20	18	8	303	315	359	33	35	35	32
28	6	14	29	48	68	71	45	153	184	215	236	238	238	238	2	3	6	14	26	26	12	12	25	42	37	34	44	56
32	1	9	37	77	115	116	68	65	154	182	204	214	218	221	3	4	8	20	35	36	14	31	49	46	35	36	47	54
36	6	11	42	99	145	135	76	6	88	152	181	197	202	206	3	4	10	29	47	41	13	24	33	21	24	32	40	36
40	9	18	46	105	145	134	77	8	80	125	161	181	186	190	2	4	15	35	51	38	13	0	351	355	11	23	25	6
44	11	23	48	98	133	125	77	11	48	100	143	166	173	179	3	8	21	37	46	32	13	321	317	339	2	15	9	343
48	12	26	49	91	119	116	74	13	41	84	129	155	164	172	4	11	25	36	39	27	13	301	306	332	355	8	358	334
52	12	28	50	84	109	107	71	10	33	73	118	146	157	167	5	13	28	35	34	23	12	296	302	328	349	4	353	334
56	13	30	50	84	108	107	69	4	21	61	108	136	148	162	5	14	30	35	31	22	13	301	302	327	345	0	349	338
60	13	33	52	83	107	106	68	356	11	51	99	128	141	157	5	14	30	32	27	21	14	309	306	331	344	357	348	343
64	12	32	50	76	100	102	67	346	359	38	90	120	136	152	5	14	30	30	23	20	15	313	308	333	347	357	349	344
68	11	30	48	65	88	95	63	333	346	26	82	114	132	149	5	15	30	28	22	20	16	313	310	333	351	2	356	350
72	11	30	48	54	75	85	58	319	333	16	74	110	130	147	6	16	31	28	22	20	16	313	313	333	356	9	2	353
76	11	31	47	44	61	74	54	308	326	9	66	107	130	146	6	16	32	29	24	21	17	314	319	333	3	16	8	355
80	11	33	48	34	48	62	47	302	322	6	60	108	133	147	6	16	34	32	27	22	15	318	326	334	6	22	11	356

N HEMISPHERE AMPLITUDE (0.1%) AND PHASE (DEGREES LONGITUDE E) OF WAVES 1 AND 2 OF DENSITY/(ZONAL MEAN DENSITY) - 1

WAVE 1 AMPLITUDE (0.1%) WAVE 1 PHASE (DEGREES) WAVE 2 AMPLITUDE (0.1%) WAVE 2 PHASE (DEGREES)
KM LAT= 20 30 40 50 60 70 80 20 30 40 50 60 70 80 20 30 40 50 60 70 80 20 30 40 50 60 70 80 CODES

JANUARY

18	11	10	22	33	46	59	40	164	217	316	346	3	11	19	5	7	2	19	29	15	5	275	265	56	72	68	68	44
20	11	11	19	27	37	49	34	164	212	306	339	358	7	14	4	6	3	19	30	18	7	275	267	50	66	61	55	39
24	9	13	15	15	13	11	7	165	197	249	261	249	259	261	2	3	5	21	37	31	14	294	293	28	42	38	30	30
28	6	13	25	42	48	77	53	165	185	201	202	195	195	198	1	4	10	27	50	47	20	2	2	12	19	19	20	24
32	2	11	35	72	117	132	86	158	170	183	187	186	188	190	2	7	16	38	63	59	23	25	12	360	4	8	13	21
36	2	7	36	88	148	162	102	7	137	167	177	179	182	184	3	9	22	47	70	63	23	14	359	350	354	1	8	15
40	4	7	29	87	156	169	106	359	67	144	166	172	176	178	3	11	26	50	69	58	21	351	342	341	346	354	1	6
44	6	13	24	74	145	163	108	357	35	99	149	163	168	170	4	12	28	45	57	48	18	322	325	332	339	347	352	350
48	7	18	29	63	128	150	105	356	25	66	130	154	159	161	4	13	27	39	46	40	16	305	313	325	333	342	344	346
52	7	22	36	59	112	134	98	354	20	50	111	143	151	154	5	13	26	35	39	33	16	294	302	316	327	337	338	357
56	7	25	44	61	103	120	89	352	18	43	94	133	143	150	5	14	26	36	36	27	16	282	290	306	320	329	335	11
60	8	24	47	60	92	103	78	351	16	41	83	124	138	146	5	16	27	37	34	22	16	271	281	304	311	316	333	17
64	8	24	44	54	76	84	65	350	14	39	74	117	135	145	6	16	24	35	31	17	14	256	271	303	302	302	333	15
68	8	21	39	44	58	64	52	349	11	38	68	115	135	145	6	15	21	31	28	14	11	243	261	304	294	292	338	6
72	8	19	36	34	41	48	41	346	5	35	65	119	143	149	6	13	19	27	25	12	9	229	254	307	289	282	339	345
76	8	17	32	24	31	39	34	344	359	32	66	135	159	158	6	11	17	23	22	12	8	220	251	310	287	278	342	323
80	8	18	33	16	30	39	33	341	354	27	75	159	175	168	5	10	18	21	20	11	8	218	255	312	288	275	338	306

FEBRUARY

18	11	7	15	25	23	32	21	161	201	309	337	11	34	31	9	5	8	20	13	19	20	357	292	34	43	79	44	334
20	11	7	15	23	19	24	17	163	200	302	328	353	25	24	14	7	15	25	15	19	23	28	320	354	34	70	39	333
24	8	8	14	22	22	18	12	161	198	266	281	266	250	251	6	7	5	16	39	27	13	262	127	133	37	38	19	35
28	5	9	17	33	55	65	46	159	191	225	238	233	223	220	7	5	12	23	50	39	12	131	346	3	22	24	18	54
32	2	8	22	51	88	98	67	149	182	198	212	215	214	213	6	11	21	36	49	44	16	145	345	10	17	15	27	37
36	1	7	25	62	101	115	77	122	166	180	194	203	206	206	3	5	8	30	66	44	17	119	26	23	11	12	16	349
40	1	5	24	63	105	117	80	95	138	158	177	189	198	198	3	4	12	19	51	38	18	165	195	11	360	4	12	321
44	1	5	20	57	96	105	73	116	112	137	160	176	186	189	5	5	10	13	35	24	11	312	51	128	27	15	345	278
48	1	5	19	53	92	97	70	147	83	113	145	162	173	181	2	4	4	13	25	16	15	306	10	84	44	355	331	286
52	0	6	20	54	89	93	65	165	53	94	132	151	161	173	4	4	10	10	17	11	17	331	46	131	62	5	312	281
56	1	10	25	60	88	85	59	351	38	83	124	141	151	169	3	3	3	8	14	10	15	12	312	48	57	356	305	273
60	3	14	30	62	79	76	54	13	45	83	117	131	142	166	4	5	11	9	14	9	15	336	79	142	75	2	299	281
64	4	16	30	55	64	60	47	26	54	84	110	121	135	164	3	1	10	11	16	10	15	69	8	113	78	8	299	275
68	4	16	29	43	44	40	39	42	64	86	101	108	128	165	3	10	16	15	16	8	14	1	88	118	74	2	318	294
72	2	13	24	30	26	20	28	63	74	85	89	86	116	167	5	10	20	18	24	12	13	68	86	118	74	14	312	282
76	1	10	19	20	15	4	19	98	79	83	73	42	44	177	5	9	17	20	21	11	14	66	82	92	63	1	336	311
80	1	6	13	12	17	14	11	185	78	73	45	346	314	203	5	16	23	22	30	15	13	34	86	115	62	13	319	287

MARCH

18	10	9	12	30	31	24	11	149	172	334	5	11	7	347	3	0	11	27	37	33	15	284	202	81	67	47	38	28
20	10	9	10	25	25	17	8	151	178	318	355	359	348	303	3	0	10	26	37	33	14	288	228	78	64	43	35	26
24	8	11	12	19	25	32	27	159	190	254	284	266	241	226	1	1	7	21	33	30	13	313	16	57	47	31	23	17
28	5	11	21	42	69	79	57	171	196	221	233	231	224	217	1	2	6	16	28	26	11	34	22	20	18	13	11	9
32	2	8	26	65	107	116	78	193	196	203	216	220	218	214	2	3	8	16	25	23	9	62	28	0	358	4	7	9
36	1	4	23	68	117	128	84	278	177	184	203	211	212	212	2	4	7	14	21	20	9	68	33	1	355	6	11	17
40	2	4	18	59	105	117	78	344	64	151	186	200	205	209	2	4	6	10	17	17	9	64	39	19	5	12	19	29
44	3	9	19	46	82	90	57	359	45	105	161	184	194	205	1	4	6	8	14	14	9	56	48	54	52	34	32	38
48	4	13	24	44	69	70	42	3	38	80	134	165	180	196	1	4	8	10	13	12	9	26	35	72	81	52	43	43
52	5	15	29	49	66	61	33	356	32	71	115	147	163	183	1	3	8	12	13	11	8	323	54	77	87	62	50	42
56	6	17	32	54	65	56	27	344	24	66	102	132	148	172	1	3	7	10	10	10	8	304	38	78	86	61	53	41
60	7	20	36	56	59	46	17	342	24	61	89	115	130	162	2	4	7	9	6	8	9	309	26	89	99	85	69	47
64	7	20	37	53	50	35	5	345	27	56	77	95	104	132	2	4	7	8	6	9	10	319	27	99	113	119	79	55
68	6	19	36	47	42	27	9	351	31	50	66	74	69	359	2	4	8	9	8	11	12	334	38	104	122	128	79	61
72	4	16	34	40	37	28	19	352	34	43	55	53	35	344	2	4	8	10	9	12	12	355	54	104	124	124	75	66
76	4	14	33	34	34	30	24	339	34	36	45	36	12	340	2	4	9	10	10	12	13	33	68	100	121	113	67	71
80	5	11	32	31	32	32	27	313	29	28	36	24	1	335	2	5	10	11	11	13	13	79	77	96	114	101	63	74

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18	7	13	10	20	23	14	2	141	159	216	296	304	291	255	2	3	6	9	11	8	3	212	198	139	104	60	39	31
20	6	12	10	19	23	14	3	141	160	213	290	300	287	254	2	3	6	9	11	7	3	211	195	135	102	59	39	32
24	5	9	11	16	20	14	4	146	165	207	263	278	271	243	1	1	5	8	9	6	3	192	169	115	94	59	41	38
28	3	6	11	18	20	14	7	158	180	203	228	241	243	233	1	1	4	6	6	4	2	81	77	80	76	56	49	55
32	2	4	10	20	24	18	10	191	218	208	208	213	217	221	2	3	5	6	3	2	1	48	53	53	49	53	84	94
36	3	5	6	16	25	21	12	219	257	227	199	199	200	209	2	4	5	5	2	2	1	40	46	41	30	40	145	144
40	3	6	5	10	21	21	13	227	271	273	195	180	188	198	2	4	5	5	1	3	1	33	43	36	19	51	150	167
44	4	6	6	2	14	19	12	223	272	310	195	180	179	186	2	4	3	3	1	3	1	27	43	37	17	60	161	189
48	5	5	8	5	8	15	10	217	267	325	1	162	171	177	2	3	2	2	2	2	1	23	48	44	25	73	156	201
52	5	5	8	8	4	12	9	213	259	331	1	134	166	169	1	3	2	2	2	2	1	17	49	45	43	78	155	206
56	6	6	8	9	1	9	8	214	250	327	348	98	168	168	1	2	2	3	3	2	0	9	30	33	45	76	152	198
60	6	7	8	10	3	8	9	219	246	312	325	284	184	178	2	3	2	3	3	2	1	19	350	9	10	61	148	195
64	6	7	8	10	7	9	10	224	242	290	303	272	199	189	3	3	2	5	3	2	2	14	339	5	349	36	140	193
68	6	7	8	10	9	10	10	226	238	270	287	260	205	198	3	3	3	6	4	2	4	19	340	8	341	12	130	194
72	7	7	9	10	9	11	10	225	236	257	273	248	203	203	3	3	3	8	5	1	5	25	352	19	339	335	167	195
76	7	6	9	10	9	12	9	223	241	253	266	237	197	206	2	1	3	8	5	1	6	37	21	25	342	340	79	196
80	7	6	9	11	8	12	8	220	252	258	265	227	189	208	1	1	2	7	5	1	6	88	121	27	349	346	65	197