Measurements of the galactic polarized radiation at 75 cm

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MEASUREMENTS OF THE GALACTIC POLARIZED RADIATION AT 75 CM

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A description of a survey of a large part of the sky at 408 Mc/s is given. The various corrections which must be applied to the measurements are summarized. It is shown that the ionospheric electron content can be derived from polarization measurements.

1. Introduction

After the series of measurements of the polarized component of the galactic 75-cm radiation described by WESTERHOUT *et al.* (1962, paper I), and BROUW *et al.* (1962, paper II), additional measurements were made between March 20 and May 1, 1962 and between March 18 and April 22, 1963. The present paper gives a combined report on the measurements already described in paper II, and the measurements made during 1962 and 1963. The three periods involved will hereafter be referred to as period 1, 2 and 3, respectively.

The receiver used during the investigations was designed by Professor C. A. Muller, and was the same in principle for each observing period. Slight modifications were made to improve stability. The same circular wave-guide feed was used during the first and second observing period, while a new feed with a better sidelobe pattern was available for the third period. The measurements were recorded differently during each observing period. The first measurements were made at eight fixed positions of the feed, separated by multiples of 45°. The mean value of each individual measurement was taken, and plotted as a function of the angle of rotation of the feed. Overlays with standard sine-curves were used to derive the intensity and position angle of the observed radiation. Later on the feed rotated continuously at a rate of one rotation per four minutes. The observed intensity and position angle were directly read off from the recorder charts with the aid of overlays. The last measurements were recorded on punched tape. While the feed rotated, the output of the receiver was integrated over ten seconds and punched. This resulted in a total of 24 independent measurements during a full rotation of the feed. These measurements were used to calculate an intensity and position angle by means of a least-squares solution.

The aim of the first observing period was to make an extensive survey of the area around $l^{II} = 140°, b^{II} = +8°$, where high polarization had been found previously (see paper I). The purpose of the second period was to map the region of the North galactic "spur", and to get some idea of the influence of the ionospheric Faraday rotation on the measurements, while the third period was used to survey as large a part of the remaining sky as possible in the time available. Figure 1 gives the rough outlines of the areas which were measured primarily in the period indicated.

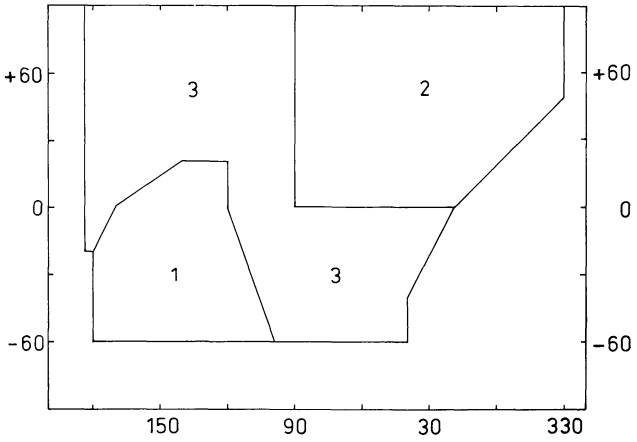

Figure 1. Rough indication of the areas which were measured during the different observing periods. Period 1, 2, and 3 stands for September 25 until October 23, 1961, March 20 until May 1, 1962 and March 18 until April 22, 1963, respectively.

The measurements were made with the 25-metre radio-telescope of the Netherlands Foundation for Radio Astronomy at Dwingeloo. The centre frequency was 408 Mc/s, the bandwidth 1.7 Mc/s and the beam-width 2°.0. The reductions were carried out on the electronic computer X1, of the Computing Centre of Leiden University. The work was financially supported by the Netherlands Organization for the Advancement of Pure Research (Z.W.O.).

2. Reduction

A discussion of the various corrections which must be applied to the measurements can be found in papers I and II. These corrections are divided into two different groups:

a. Corrections depending on the direction of observation, and probably due to off-axis radiation ("spurious radiation");

b. Corrections depending on the time of observation, due to either changes in the spurious polarized radiation, or to variations of the receiver characteristics.

In addition to these corrections, it turned out to be possible to correct the measurements for the ionospheric Faraday rotation, which depends on both time and direction of observation (see section 3).

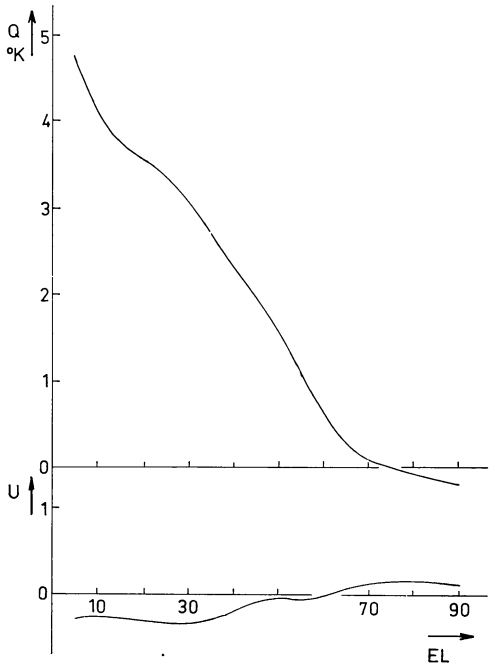

Figure 2. Variation of Q and U with elevation for the second observing period.

To derive the elevation- and azimuth-dependent parts of the spurious polarized radiation, we determined the mean value of about 250 sweeps in elevation from horizon to zenith, and about 50 sweeps in azimuth for each observing period. All sweeps were made twice with different orientations of the dipoles, to be able to derive the Q as well as the U component of the radiation. Q and U represent the Stokes parameters, defined as:

$$Q = I \cos(2\theta),$$
$$U = I \sin(2\theta),$$

where I is the intensity of the polarized radiation, and θ the position angle of the electric vector of the polarized radiation with respect to an appropiate coordinate system.

The spurious polarized radiation is mainly a function of elevation. This elevation-dependent part is shown in figure 2.

A small variation of the spurious polarized radiation with azimuth was also present, and probably due to the asymmetry of the surroundings of the telescope. After correcting the measurements for the elevation- and azimuth-dependent parts of the spurious polarized radiation, further corrections were derived from the measurements of calibration points. For this purpose three calibration points were used; one at $l^{II} = 8°.0$, $b^{II} = +63°.4$, one at $l^{II} = 141°.0$, $b^{II} = +8°.0$, both of which have a high polarization brightness temperature, and the equatorial North pole at $l^{II} = 123°.0$, $b^{II} = +27°.4$, which has the advantage of a constant elevation and azimuth throughout the day. One of these points was measured at least once every hour, as a check on the instrumental characteristics. The measurements of one calibration point made on a given night or day define an off-centre circle when they are plotted on the Q, U plane.

The position of the centre of this circle differed slightly from one night to the other. Furthermore, elevation sweeps, made on different nights, were slightly linearly displaced with respect to each other. These two effects together suggest that an extra, slowly varying, time-dependent correction, which is more or less constant during one day or night, must also be applied to the measurements. This correction was found by making least-squares solutions for the centre of the circles determined by the measurements of the various

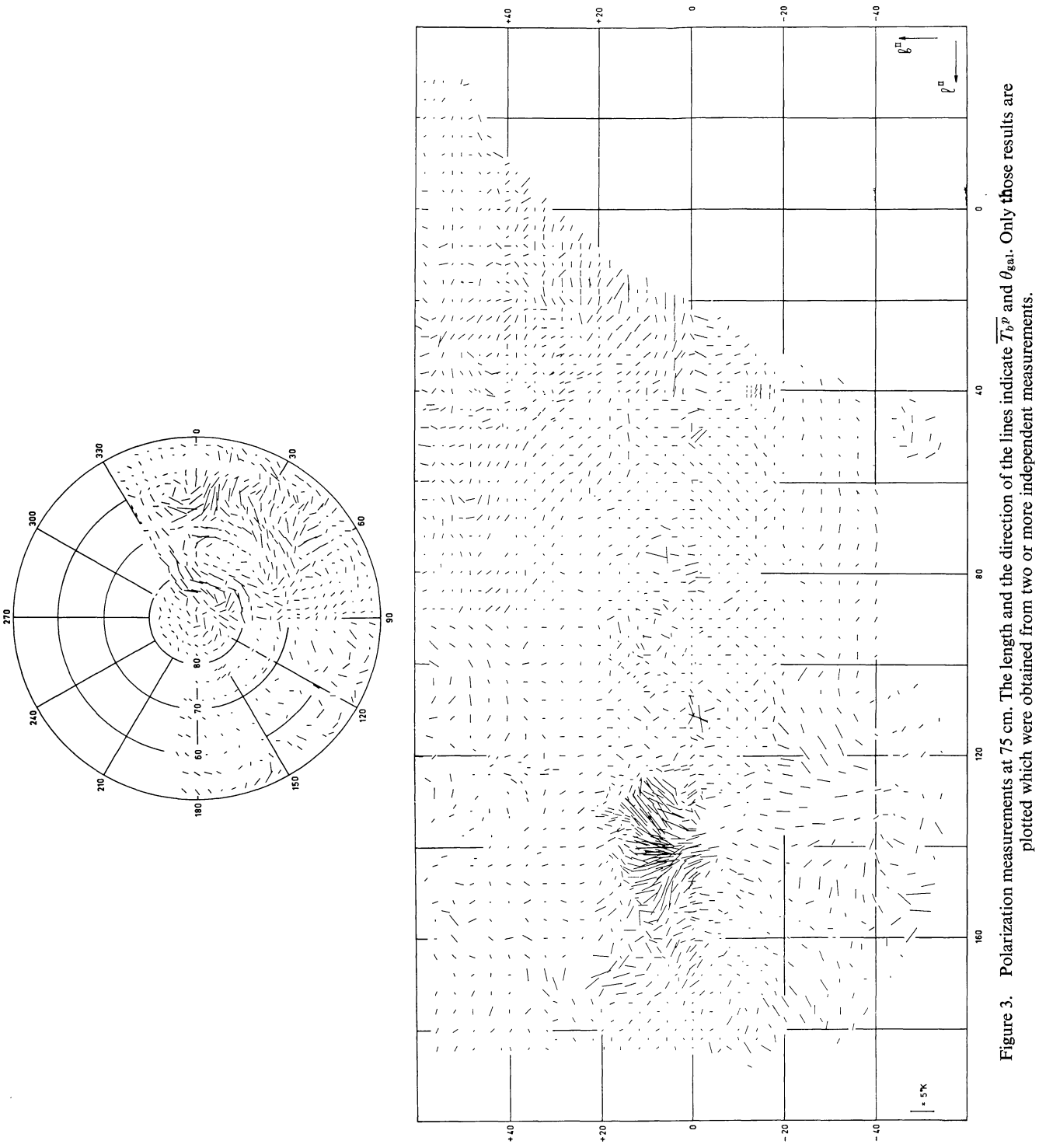

Figure 3. Polarization measurements at 75 cm. The length and the direction of the lines indicate $\overline{T_b^p}$ and θ_{gal}. Only those results are plotted which were obtained from two or more independent measurements.

calibration points. The least-squares solutions yielded also the radii of the circles, which were used as a check on the system gain. It has also been found possible to derive the ionospheric Faraday rotation from the measurements at the calibration points. This is described in section 3.

The reduction of the measurements consisted of the following steps:

1. Derive the measured intensity and polarization angle by means of an overlay (period 1 and 2) or a least-squares solution (period 3).
2. Determine the Stokes parameters Q_m and U_m with respect to the alt-azimuth system.
3. Determine $Q_{c,1} = Q_m + \Delta Q_{\mathrm{El}} + \Delta_{\mathrm{Az}}$, where ΔQ_{El} and ΔQ_{Az} are the corrections depending on elevation and azimuth respectively. Determine $U_{c,1}$ in the same way.
4. Plot $Q_{c,1}$ and $U_{c,1}$ of the calibration points on the Q, U plane, and inspect the circles determined by them for large deviations.
5. Make least-squares solutions for the circles defined in 4.
6. Determine $Q_c = Q_{c,1} + \Delta Q_n$, where ΔQ_n is the time-dependent correction. Determine also U_c.
7. Calculate I_c and θ_c

$$\left(I_c = \sqrt{Q_c^2 + U_c^2};\ \theta_c = \tfrac{1}{2} \arctan\left(\frac{U}{Q}\right)\right).$$

8. Add the parallactic and galactic parallactic angle to θ_c, to derive the galactic polarization angle $(\theta_{c,\mathrm{gal}})$.
9. Determine θ_{gal} by subtracting the ionospheric Faraday rotation from $\theta_{c,\mathrm{gal}}$.

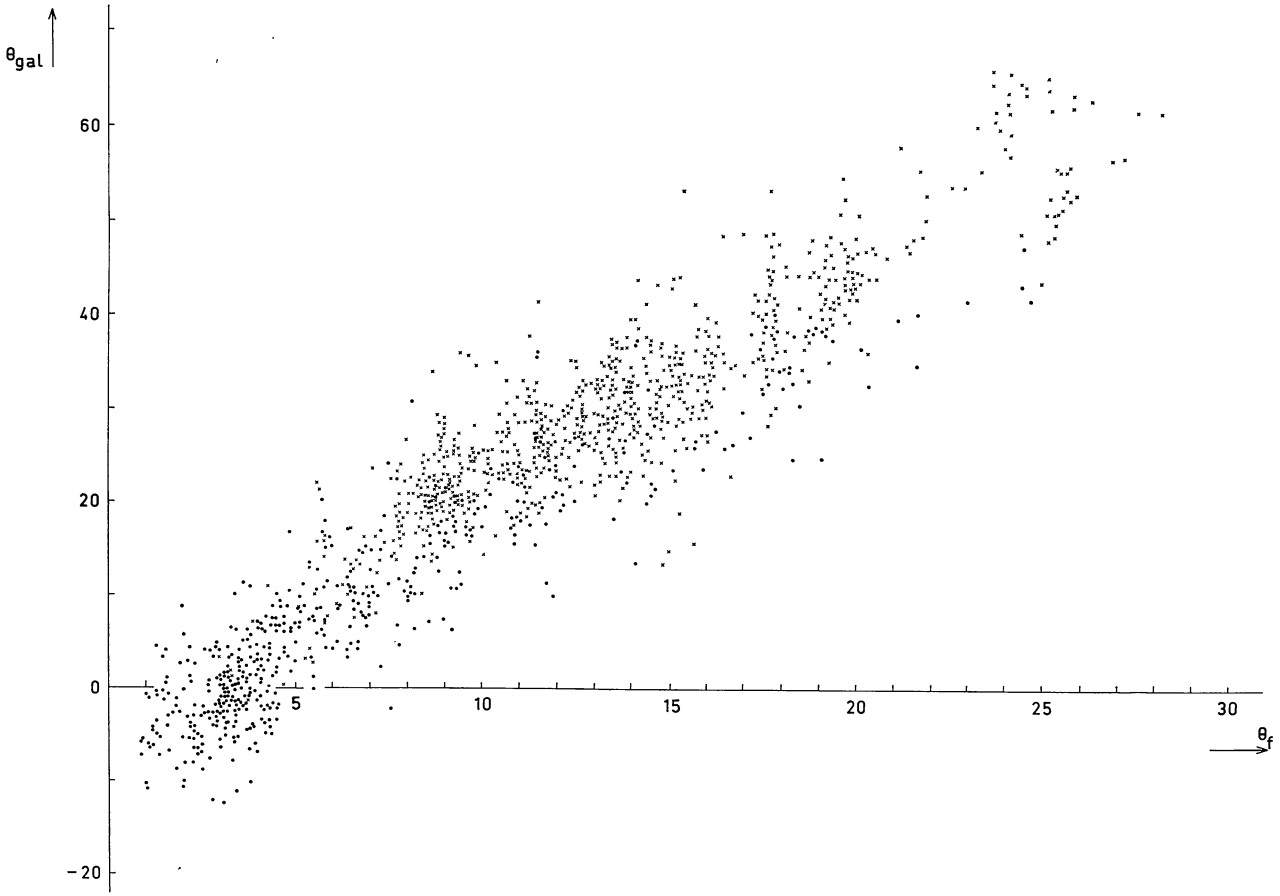

Figure 4. Correlation diagram for θ_{gal} *vs* the Faraday rotation expected for a parabolic F_2-layer. The dots indicate measurements at $l^{\mathrm{II}} = 141^0.0$, $b^{\mathrm{II}} = +\ 8^0.0$ made at night, the crosses measurements of the same point in the daytime.

10. Calculate Q_{gal} and U_{gal}.
11. Determine the mean value of Q_{gal} and U_{gal} for all the measurements made at one point.
12. Determine $\overline{T_b^p}$ (the full-beam polarization brightness temperature, see paper I) and θ_{gal}.

The results of the observations are summarized in figure 3 and table 1. The internal mean error for a single measurement was 0.6 °K, 0.4 °K and 0.4 °K in $\overline{T_b^p}$ for the periods 1, 2 and 3, respectively. The mean error in the polarization angle is equal to

$$\frac{\text{m.e. } \overline{(T_b^p)}}{0.035\,\overline{T_b^p}}.$$

Little is known about systematic errors. In order to eliminate these as far as possible, we observed most of the points two or more times, on different nights and at different sidereal times. However, we suspect that a systematic error up to 1 °K may still be present. Especially at low declinations, where the measurements had to be done near culmination, the spurious polarized radiation caused by off-axis radiation might have given a systematic error.

3. Faraday rotation

As has been shown before (see papers I and II), the ionospheric Faraday rotation provides the best proof for the existence of polarized radiation from beyond the earth's atmosphere. Therefore, a large part of our observing time was devoted to measuring the three calibrations points at as many different times as possible.

In figure 4 the observed polarization angles for one of these points during the second observing period are plotted *vs* the expected Faraday rotation. This expected Faraday rotation was calculated for each observation on the basis of a parabolic F_2-layer, with the aid of ionosonde data, kindly put at our disposal by Drs H. J. A. Vesseur of the Dutch Meteorological Institute, K.N.M.I. De Bilt. For details of the calculation see paper II, and BROUW and BERKHUIJSEN (1962).

Similar diagrams were made for the other calibration points and for the other periods. The points on each diagram are scattered around a straight line. The mean slope of the lines which can be drawn through the points in these diagrams is 2.3. This value agrees with other determinations of the ionospheric electron content (e.g. EVANS and TAYLOR, 1961).

Furthermore, there seems to be an indication that at the right-hand side of each diagram the slope of the mean curve through the points is less than at the left-hand side, suggesting that the ratio between the true electron content and the electron content derived on the basis of a parabolic F_2-layer from ionosonde data is higher for low ionospheric electron content, i.e. at night, than for high ionospheric electron content, i.e. in the daytime. This fact has also been found before from moon echo measurements (EVANS and TAYLOR, 1961). The polarization angles of the calibration points outside the ionosphere can now be found by extrapolation of the mean curves in the diagrams towards zero electron content.

The small deviations of the individual points in figure 4 from a mean curve indicate that it might be possible to measure the ionospheric Faraday rotation, and hence the electron content of the ionosphere, directly from the measurements. It is of course, only worthwhile to derive the ionospheric electron content from the measurements of calibration points rather than from ionosonde data, if the former yield more accurate values.

In order to calculate the electron content from calibration measurements, the difference between the polarization angle observed at a given time and the polarization angle outside the ionosphere was divided by the appropiate $H \cos\theta \sec Z$. Furthermore, the time of observation was corrected for the difference in time between the sub-ionospheric point and the place of observation (see BROUW and BERKHUIJSEN, 1962).

In figure 5b the electron content of the ionosphere derived from observations at $l^{II} = 8°.0$, $b^{II} = +63°.4$ is plotted *vs* the electron content derived from observations at the point $l^{II} = 141°.0$, $b^{II} = +8°.0$ at the same Local Mean Time. In figure 5a the electron content derived from observations at $l^{II} = 8°.0$, $b^{II} = +63°.4$ is plotted *vs* the electron content derived from ionosonde data.

The deviations from a mean curve in figure 5b are less than the deviations from a corresponding curve in figure 5a. Hence, the consistency between the values of the ionospheric electron content obtained from polarization measurements in two completely different areas

of the sky is somewhat better than the consistency between those derived from polarization measurements and ionosonde data. It should, therefore, be possible to get a more accurate value of the electron content of the ionosphere from our polarization measurements than from ionosonde data.

It should be stressed that several approximations are involved in the above procedure. A sheath ionosphere is assumed in order to obtain the Faraday rotation as the product of two functions, one of which depends only on the ionosphere, the other only on the relative directions of the line of sight and the magnetic field. In order to be able to take the position of the sub-ionospheric points into account in a simple way, it is further assumed that the ionosphere can be described as a wave travelling westward over the earth without change of shape and that North–South gradients are non-existent. This allows us to substitute for the difference in position of the sub-ionospheric point and Dwingeloo a difference in time, but otherwise to use the same ionospheric variation for all points in the sky. These assumptions are certainly approximations, but the results obtained justify their use. The value of the ionospheric Faraday rotation, which was used in correcting the measurements, was obtained from the calibration measurements in the manner described above.

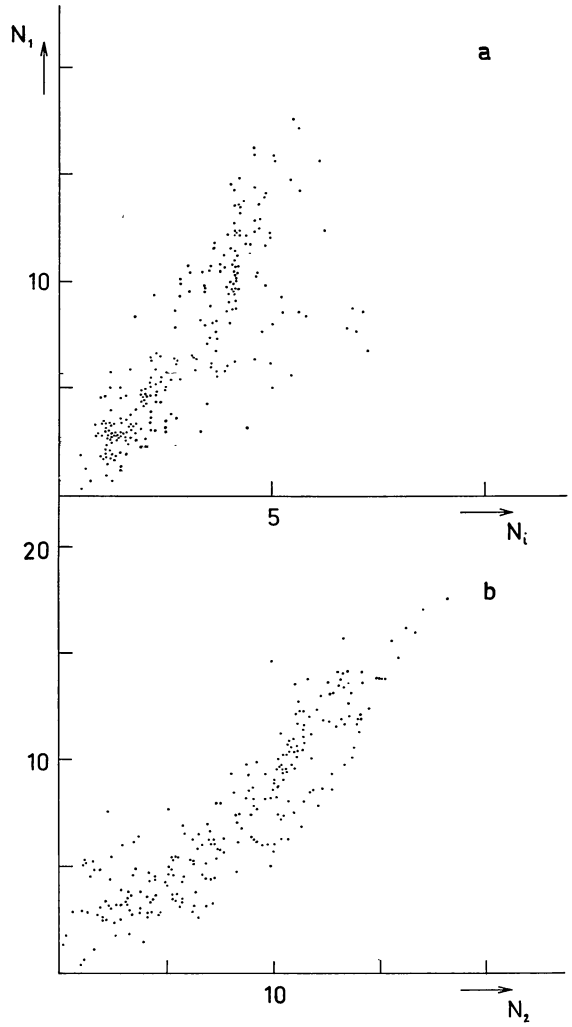

Figure 5. The ionospheric electron content derived from measurements at $l^{II} = 8^0.0$, $b^{II} = +63^0.4$ (N_1) *vs*

a. that derived from ionosonde data (N_i).

b. the ionospheric electron content derived from measurements at $l^{II} = 141^0.0$, $b^{II} = +8^0.0$ (N_2).

The electron contents are expressed in units of 10^{12} electrons/cm^2.

The horizontal scale in figures *a* and *b* differs by a factor 2, to obtain roughly the same slope in both figures, which makes the diagrams more directly comparable.

4. Conclusion

Investigation of the galactic polarized radiation was initiated in order to estimate galactic magnetic fields. However, to base a value of the magnetic field on the data obtained until now seems rather difficult. The polarized radiation resulting from a given volume of the Galactic System will not only be determined by the magnetic field, but the interstellar density of ionized hydrogen will also play an important role. A high value of the density of the ionized hydrogen will cause a high value of the interstellar Faraday rotation, and will make the radiation, when integrated over the line of sight, nearly unobservable. Only rather local synchrotron radiation will be visible as polarized radiation. On the other hand, if the interstellar Faraday rotation is small, the irregularities in the magnetic field will produce an irregular pattern of polarized radiation, which will strongly reduce the observed polarization. From figure 3 it can be seen that the irregularities in the observed polarization are quite large. Changes within less than two degrees seem to be quite common. This suggests that either the interstellar Faraday rotation is large, and strongly dependent on the direction of observation, or that the magnetic field has many small-scale structures.

An attempt has been made to correlate the radio and optical polarization measurements. The differences

Legend to table 1

Summary of the polarization observations at 408 Mc/s. Tabled are respectively: New galactic latitude and longitude, right ascension and declination (equinox 1950.0), full-beam polarization brightness temperature, position angle with respect to the galactic North pole and position angle with respect to the equatorial North pole (both position angles were corrected for the ionospheric Faraday rotation), the number of measurements and the period in which the measurements were made (see text).

TABLE 1

LAT	LONG	R.A.	DECL	INT	GAL	EQ	N	PER
- 54.5	119.0	10.0	8.0	0.4	114	111	2	1
- 54.4	129.0	16.0	8.0	1.3	74	80	2	1
- 54.0	48.0	336.5	- 13.7	1.1	108	46	1	3
	52.0	337.7	- 11.7	1.5	67	8	2	3
	112.0	6.0	8.0	0.7	98	89	2	1
- 53.8	136.0	20.0	8.0	2.9	120	132	2	1
- 52.8	142.4	20.0	8.0	0.8	123	140	2	1
- 52.7	103.0	0.0	8.0	0.3	0	162	2	1
- 52.0	46.0	334.1	- 13.9	2.1	16	133	2	3
	50.0	335.3	- 11.7	1.6	80	20	2	3
	54.0	336.6	- 9.6	2.5	31	153	2	3
- 51.5	148.5	28.0	8.0	3.2	17	40	2	1
- 50.5	119.5	10.0	12.0	1.3	50	47	2	1
- 50.4	129.0	16.0	12.0	0.9	118	123	2	1
- 50.0	113.4	6.0	12.0	1.1	37	28	2	1
	135.0	20.0	12.0	2.5	73	84	2	1
- 49.8	154.0	32.0	8.0	4.8	175	23	4	1
- 49.3	150.4	30.0	9.5	5.3	3	28	12	1
- 49.0	140.6	24.0	12.0	1.5	82	98	2	1
- 48.8	104.5	0.0	12.0	1.0	38	22	2	1
- 48.6	121.0	11.0	14.0	2.4	1	0	1	1
	122.6	12.0	14.0	1.1	17	17	1	1
	125.5	14.0	14.0	1.3	175	178	1	1
- 48.5	118.0	9.0	14.0	2.6	4	0	1	1
- 48.4	117.0	8.0	14.0	1.2	176	170	1	1
- 48.2	114.0	6.0	14.0	1.3	3	175	1	1
- 48.0	42.0	329.2	- 14.4	1.3	159	94	2	3
	46.0	330.4	- 12.0	1.4	96	34	2	3
	50.0	331.8	- 9.7	2.5	85	25	2	3
	54.0	333.2	- 7.4	2.6	16	140	2	3
	112.4	5.0	14.0	1.2	0	170	1	1
- 47.8	146.0	28.0	12.0	1.9	7	28	2	1
	159.3	36.0	8.0	3.9	51	84	2	1
- 47.6	109.5	3.0	14.0	1.2	1	169	1	1
- 47.0	105.4	0.0	14.0	1.2	172	156	1	1
- 46.5	48.3	329.9	- 9.9	3.7	93	32	1	3
	120.0	10.0	16.0	1.5	34	31	2	1
	128.0	16.0	16.0	1.0	3	8	2	1
- 46.3	102.7	358.0	14.0	1.7	142	124	1	1
- 46.2	114.0	6.0	16.0	1.3	54	46	1	1
	151.5	32.0	12.0	3.5	142	168	2	1
- 46.0	44.0	328.0	- 12.3	1.1	117	54	2	3
	48.0	329.3	- 9.9	1.0	104	43	3	3
	52.0	330.8	- 7.5	1.5	2	124	2	3
	133.7	20.0	16.0	0.9	156	166	2	1
- 45.7	100.0	356.0	14.0	1.7	144	123	1	1
- 45.6	164.0	40.0	8.0	0.5	159	15	2	1
- 45.3	99.0	355.0	14.0	1.2	140	118	1	1
- 45.0	97.5	354.0	14.0	1.8	150	127	1	1
	106.0	0.0	16.0	0.9	103	88	2	1
	139.0	24.0	16.0	2.6	155	170	2	1
- 44.5	120.0	10.0	18.0	1.4	4	1	2	1
	126.6	15.0	18.0	0.6	142	145	2	1
- 44.4	156.4	36.0	12.0	2.7	34	64	2	1
- 44.2	95.0	352.0	14.0	1.2	155	129	1	1
	114.6	6.0	18.0	1.1	21	13	2	1
- 44.0	46.0	326.9	- 10.1	0.9	7	125	2	3
	50.0	328.3	- 7.6	0.5	6	127	2	3
	133.0	20.0	18.0	0.3	125	135	2	1
	144.0	28.0	16.0	1.8	175	15	2	1
- 43.3	92.6	350.0	14.0	1.2	156	128	1	1
- 43.2	168.5	44.0	8.0	0.3	81	120	2	1
- 43.0	107.0	0.0	18.0	1.1	54	39	2	1
	139.6	25.0	18.0	1.5	136	152	2	1
- 42.8	91.4	349.0	14.0	1.2	158	129	1	1
- 42.6	121.3	11.0	20.0	2.9	176	175	1	1
	149.0	32.0	16.0	0.7	139	163	2	1
- 42.5	127.7	16.0	20.0	1.8	8	13	2	1
- 42.3	161.0	40.0	12.0	1.6	93	127	2	1
- 42.0	133.0	20.0	20.0	1.2	176	5	2	1
- 41.7	135.0	22.0	20.0	1.4	131	143	1	1
- 41.5	145.7	30.0	18.0	1.6	140	161	2	1
- 41.3	137.7	24.0	20.0	1.1	115	128	2	1
- 41.0	153.7	36.0	16.0	1.9	120	148	2	1
- 40.6	121.4	11.0	22.0	2.8	177	175	1	1
- 40.5	127.5	16.0	22.0	1.4	8	13	2	1
	172.5	48.0	8.0	0.3	167	30	3	1
- 40.2	115.3	6.0	22.0	0.9	143	135	2	1
	142.5	28.0	20.0	2.4	111	130	2	1
- 40.0	46.0	323.5	- 8.2	1.2	131	71	1	3
	50.0	324.9	- 5.6	1.6	111	52	1	3
	54.0	326.5	- 3.0	0.2	125	69	1	3
	58.0	328.3	- 0.5	0.3	117	64	1	3
	62.0	330.2	1.9	1.2	114	63	1	3
	66.0	332.1	4.3	1.7	116	67	1	3
	70.0	334.2	6.5	2.0	95	49	1	3
	74.0	336.5	8.7	1.8	84	42	1	3
	78.0	338.8	10.7	1.3	81	42	1	3
	82.0	341.3	12.6	1.1	81	44	1	3
	86.0	343.8	14.3	1.2	71	37	1	3
	90.0	346.5	15.9	1.3	62	32	1	3
	94.0	349.4	17.4	0.7	76	49	1	3
	98.0	352.5	18.7	0.7	41	18	1	3
	133.5	21.0	22.0	1.5	38	48	2	1
	165.0	44.0	12.0	2.6	8	45	1	1
- 39.6	151.4	35.0	18.0	2.1	119	146	2	1
- 39.3	130.0	18.0	23.0	2.0	47	54	1	1
- 39.2	108.0	0.0	22.0	0.9	24	10	2	1
- 39.0	139.4	26.0	22.0	2.5	71	86	2	1
	147.0	32.0	20.0	2.8	111	133	1	1
	158.0	40.0	16.0	1.5	28	60	2	1
- 37.8	176.0	52.0	8.0	1.7	63	109	2	1
- 37.6	169.0	48.0	12.0	0.5	9	50	3	1
- 37.4	145.0	31.0	22.0	3.0	82	103	2	1
- 37.3	151.4	36.0	20.0	1.5	98	124	11	1
	156.7	40.0	18.0	0.9	152	3	2	1
- 37.2	66.0	330.0	6.0	3.3	139	91	1	1
- 36.8	162.0	44.0	16.0	1.2	97	132	2	1
- 36.6	122.7	12.0	26.0	3.2	169	169	2	1
- 36.4	117.0	7.0	26.0	1.9	146	140	2	1
	128.0	17.0	26.0	1.5	6	11	2	1
- 36.3	79.0	337.0	14.0	2.7	151	112	1	1
- 36.0	42.0	318.2	- 9.1	0.9	157	94	2	3
	46.0	319.8	- 6.3	1.0	132	72	2	3

between the position angles of the electric vectors of a radio polarization measurement and a nearby optical polarization measurement are concentrated around 90 degrees. At the present moment, however, no definite conclusion can be drawn from this fact. Further measurements at other frequencies will be needed before one can come to an estimate of the magnitude of the magnetic field and its regularity.

It is a pleasure to express our sincere thanks to Mr J. Tinbergen, who assisted with the observations and reduction. In addition we want to thank Professor C. A. Muller for the receiver and feed he has designed, and for his active interest in the investigations; Mr A. Koeling, Drs J. H. van Rhijn and Mr R. van 't Land for building and maintaining the receiver and Mr S. Drenth for his assistance during the observations.

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TABLE 1 *(continued)*

LAT	LONG	R.A.	DECL	INT	GAL	EQ	N	PER
- 36.0	50.0	321.4	- 3.5	0.2	97	38	2	3
	54.0	323.2	- 0.8	1.3	89	33	2	3
	58.0	325.1	1.9	1.0	106	53	2	3
	62.0	327.0	4.5	1.1	132	80	2	3
	66.0	329.1	6.9	0.6	114	66	2	3
	70.0	331.4	9.3	0.5	101	55	2	3
	74.0	333.7	11.6	1.0	74	31	1	3
	78.0	336.2	13.7	1.2	48	8	1	3
	82.0	338.8	15.8	0.7	58	21	1	3
	86.0	341.5	17.7	1.0	37	3	1	3
	90.0	344.4	19.4	0.8	52	21	1	3
	94.0	347.4	21.0	1.3	84	57	1	3
	98.0	350.6	22.4	1.5	90	66	1	3
	102.0	353.8	23.6	1.6	75	54	2	3
	106.0	357.2	24.6	0.7	38	22	3	3
- 35.8	134.0	22.0	26.0	1.4	17	28	2	1
- 35.7	111.6	2.0	26.0	1.6	122	110	2	1
- 35.5	150.3	36.0	22.0	2.0	91	117	2	1
- 35.0	77.0	335.0	14.0	1.7	150	109	1	1
	172.6	52.0	12.0	1.1	77	121	2	1
	179.5	56.0	8.0	1.6	78	127	1	1
- 34.8	139.0	27.0	26.0	0.4	171	7	2	1
- 34.6	161.6	45.0	18.0	1.6	80	116	2	1
- 34.5	166.0	48.0	16.0	0.9	142	1	2	1
- 34.4	76.0	334.0	14.0	2.2	148	106	1	1
- 33.4	25.0	310.0	- 21.0	1.7	95	24	1	1
- 33.3	144.3	32.0	26.0	0.9	41	62	2	1
	155.0	41.0	22.0	0.7	121	152	2	1
- 32.6	61.0	324.0	6.0	3.3	143	91	1	1
	123.7	13.0	30.0	1.7	162	163	2	1
- 32.5	118.6	8.0	30.0	2.6	115	110	2	1
- 32.3	129.0	18.0	30.0	2.6	4	10	2	1
- 32.2	37.5	313.1	- 10.7	1.6	138	74	2	3
	176.0	56.0	12.0	1.5	89	136	2	1
- 32.0	42.0	314.7	- 7.2	0.8	92	29	2	3
	46.0	316.3	- 4.3	0.3	167	107	2	3
	50.0	318.0	- 1.4	0.7	130	72	2	3
	54.0	319.9	1.5	0.6	120	64	2	3
	58.0	321.8	4.3	1.0	98	45	3	3
	62.0	323.9	7.0	1.5	101	49	2	3
	66.0	326.1	9.6	1.1	91	42	2	3
	70.0	328.4	12.1	1.8	85	39	2	3
	74.0	330.9	14.5	1.2	70	26	2	3
	78.0	333.5	16.8	1.0	67	26	2	3
	82.0	336.2	18.9	0.8	97	59	2	3
	86.0	339.1	20.9	0.4	88	53	2	3
	90.0	342.2	22.8	0.3	110	78	2	3
	94.0	345.4	24.5	0.4	147	118	2	3
	98.0	348.8	26.0	1.1	67	43	2	3
	102.0	352.3	27.3	2.2	84	63	2	3
	106.0	355.9	28.4	1.6	105	88	2	3
	110.0	359.6	29.3	1.6	124	111	3	3
	114.5	4.0	30.0	3.3	120	111	2	1
	169.4	52.0	16.0	0.6	101	143	2	1
	184.0	60.6	7.0	1.2	139	11	1	3
- 31.8	182.6	60.0	8.0	1.3	59	109	2	1
- 31.7	134.0	23.0	30.0	2.4	10	21	1	1
	166.0	50.0	18.0	1.7	111	150	2	1
- 31.5	149.0	37.0	26.0	3.4	97	123	2	1
- 30.8	160.0	46.0	22.0	0.7	171	26	2	1
- 30.7	139.0	28.0	30.0	1.3	55	71	2	1
- 30.0	150.0	38.5	27.1	2.5	74	100	1	3
	154.0	41.8	25.4	1.3	71	102	2	3
	158.0	45.1	23.6	1.2	4	38	2	3
- 29.6	70.5	327.0	14.0	1.3	170	123	1	1
- 29.4	172.6	56.0	16.0	0.6	93	138	2	1
- 29.3	143.5	33.0	30.0	2.2	32	53	2	1
	179.0	60.0	12.0	1.6	79	128	2	1
- 28.6	121.0	10.0	34.0	2.6	124	122	2	1
	170.3	55.0	18.0	2.9	119	163	2	1
- 28.5	125.5	15.0	34.0	2.6	174	177	2	1
- 28.4	167.0	53.0	20.0	0.6	45	86	1	1
- 28.3	117.0	6.0	34.0	3.1	123	116	2	1
- 28.2	69.0	325.0	14.0	1.3	170	122	1	1
- 28.0	38.0	309.5	- 8.5	1.4	106	43	1	3
	42.0	311.1	- 5.4	0.9	116	55	2	3
	46.0	312.8	- 2.3	0.6	107	67	2	3
	50.0	314.6	0.8	0.7	110	52	2	3
	54.0	316.6	3.7	0.7	114	58	2	3
	58.0	318.6	6.6	0.9	68	14	2	3
	62.0	320.7	9.4	1.0	84	32	1	3
	66.0	323.0	12.2	1.0	90	40	2	3
	70.0	325.4	14.8	1.0	79	32	2	3
	74.0	328.0	17.4	1.5	51	7	2	3
	78.0	330.7	19.8	0.9	106	64	2	3
	82.0	333.6	22.1	0.4	122	83	2	3
	86.0	336.6	24.2	0.3	36	0	2	3
	90.0	339.8	26.2	0.5	148	115	2	3
	94.0	343.3	28.0	0.4	27	178	2	3
	98.0	346.8	29.6	1.7	157	131	2	3
	102.0	350.6	31.1	1.4	45	23	2	3
	106.0	354.5	32.3	0.9	93	75	2	3
	110.0	358.5	33.2	1.2	125	111	2	3
	114.0	2.7	33.9	2.5	138	129	1	3
	164.0	51.0	22.0	2.2	117	156	2	1
	178.0	60.3	13.5	1.0	120	168	2	3
	184.0	63.8	9.4	0.8	74	126	1	3
- 27.7	38.0	309.2	- 8.5	1.3	97	34	1	3
- 27.6	148.0	38.0	30.0	2.6	82	108	1	1
- 27.4	135.0	25.0	34.0	2.7	0	12	2	1
- 27.0	168.7	55.0	20.0	1.2	32	75	1	1
- 26.8	67.5	323.0	14.0	1.1	159	110	1	1
- 26.6	175.7	60.0	16.0	2.0	90	137	2	1
- 26.3	139.3	30.0	34.0	2.7	21	38	3	1
- 26.2	55.7	316.0	6.0	2.6	152	97	1	1
- 26.0	67.0	322.0	14.0	1.3	172	122	1	1
	154.0	44.2	28.8	0.8	17	48	1	3
	158.0	47.6	26.9	1.0	140	175	2	3
- 25.6	155.0	45.2	28.8	1.2	166	18	1	3
	192.0	70.0	5.0	1.7	129	5	6	1
- 25.5	152.3	43.0	30.0	1.9	28	58	2	1
- 25.2	174.0	60.0	18.0	2.8	116	162	2	1
- 25.0	143.7	35.0	34.0	2.6	42	64	5	1
- 24.6	21.0	300.0	- 21.0	1.5	117	48	1	1
	122.7	12.0	38.0	2.9	126	125	2	1
- 24.5	65.4	320.0	14.0	2.3	165	114	1	1
	119.3	8.0	38.0	3.4	126	122	2	1
	127.0	17.0	38.0	2.2	166	170	1	1
- 24.3	162.0	52.0	26.0	1.5	151	10	2	1
- 24.0	38.0	305.9	- 6.7	0.6	116	53	2	3
	42.0	307.6	- 3.5	0.9	88	27	2	3
	46.0	309.4	- 0.3	0.7	110	50	2	3
	50.0	311.2	2.9	1.0	77	19	2	3
	54.0	313.2	5.9	0.3	91	34	2	3
	58.0	315.3	9.0	0.1	2	128	2	3
	62.0	317.5	11.9	1.0	75	23	2	3
	66.0	319.9	14.8	1.0	77	27	2	3
	70.0	322.3	17.5	0.5	78	30	2	3
	74.0	325.0	20.2	0.6	122	77	2	3
	78.0	327.8	22.7	0.3	98	55	2	3
	82.0	330.8	25.2	1.0	150	110	2	3
	86.0	334.0	27.4	0.5	148	111	2	3
	90.0	337.4	29.5	0.4	170	136	2	3
	94.0	341.0	31.5	0.5	141	111	2	3
	98.0	344.8	33.2	0.8	166	139	2	3
	102.0	348.8	34.8	3.2	56	34	2	3
	106.0	353.0	36.0	2.3	67	48	2	3
	110.0	357.3	37.1	1.2	114	99	2	3
	114.0	1.8	37.9	2.1	106	95	2	3
	131.4	22.0	38.0	1.7	5	15	2	1
	178.0	63.4	16.1	1.6	121	171	2	3
	184.0	67.0	11.9	1.3	82	134	1	3
- 23.8	34.3	304.2	9.6	0.6	132	68	2	3
	65.0	319.0	14.0	1.1	163	111	1	1
- 23.2	135.6	27.0	38.0	1.7	1	16	1	1
	148.0	40.0	34.0	2.3	81	107	2	1
	156.4	48.0	30.0	0.4	10	44	2	1
- 22.3	63.5	317.0	14.0	1.6	164	112	1	1
- 22.0	139.7	32.0	38.0	1.3	22	41	2	1
- 21.8	171.6	61.0	22.0	2.4	128	174	2	1
- 21.5	63.0	316.0	14.0	1.7	163	110	1	1
- 21.4	166.0	57.0	26.0	1.2	143	5	2	1
- 21.3	77.0	324.9	23.9	0.5	53	8	1	3
- 21.2	151.7	45.0	34.0	0.5	162	13	2	1
- 20.7	160.0	53.0	30.0	0.7	155	13	2	1
- 20.6	121.0	10.0	42.0	2.7	172	170	2	1
	124.3	14.0	42.0	2.3	167	168	2	1
	143.6	37.0	38.0	0.5	170	14	2	1
- 20.3	128.3	19.0	42.0	2.8	174	1	2	1
- 20.0	34.0	300.6	- 8.2	0.1	155	92	2	3
	38.0	302.3	- 4.9	0.4	58	175	2	3
	42.0	304.1	- 1.5	0.6	83	21	2	3
	46.0	305.9	1.7	0.8	68	8	2	3
	50.0	307.8	5.0	0.2	82	24	2	3
	54.0	309.9	8.1	0.1	16	139	2	3
	58.0	312.0	11.3	0.4	8	133	2	3
	62.0	314.2	14.3	0.4	70	17	2	3
	66.0	316.6	17.3	0.6	119	67	2	3
	70.0	319.2	20.2	0.6	82	33	2	3
	74.0	321.9	23.0	0.7	118	71	2	3
	78.0	324.8	25.6	0.5	124	80	2	3
	82.0	327.9	28.2	0.1	25	164	2	3
	86.0	331.2	30.6	0.3	134	96	2	3
	90.0	334.7	32.8	0.2	55	20	2	3
	94.0	338.5	34.9	0.2	162	130	2	3
	98.0	342.5	36.8	0.6	163	135	2	3
	102.0	346.8	38.4	0.7	63	39	2	3
	106.0	351.3	39.8	1.3	100	80	3	3
	110.0	356.0	41.0	1.6	125	109	2	3
	114.0	0.9	41.8	3.1	133	122	2	3
	118.0	5.9	42.4	2.6	161	155	2	3
	122.0	11.0	42.6	2.8	169	168	2	3
	174.0	64.0	21.6	2.7	124	171	2	3
	178.0	66.6	18.7	1.2	121	171	2	3
	184.0	70.3	14.3	0.1	0	53	1	3
- 19.8	132.0	24.0	42.0	3.0	178	9	2	1
- 19.6	51.0	308.0	6.0	2.7	163	105	1	1
- 19.0	136.0	29.0	42.0	2.0	175	10	2	1
	147.4	42.0	38.0	0.7	47	75	2	1
	155.4	50.0	34.0	0.4	168	23	2	1
- 18.3	169.0	62.0	26.0	0.7	118	164	2	1
- 18.0	32.0	297.9	- 9.0	0.4	88	24	1	3
	36.0	299.6	- 5.6	0.5	82	19	2	3
	40.0	301.4	- 2.3	0.7	95	33	2	3
	44.0	303.2	1.1	1.0	77	16	2	3
	48.0	305.1	4.4	0.7	76	16	2	3
	52.0	307.1	7.6	0.4	83	25	2	3
	56.0	309.2	10.8	0.5	74	18	2	3
	60.0	311.4	14.0	0.3	128	74	2	3
	64.0	313.8	17.0	1.0	65	12	2	3
	68.0	316.3	20.0	0.6	93	42	2	3
	72.0	318.9	22.9	0.5	71	22	1	3
	76.0	321.7	25.7	0.7	94	48	1	3
	80.0	324.8	28.4	2.1	77	34	1	3
	84.0	328.0	30.9	1.7	66	26	1	3
	88.0	331.5	33.3	0.3	96	59	2	3
	92.0	335.2	35.6	0.5	11	157	2	3
	96.0	339.2	37.6	0.5	99	68	2	3
	100.0	343.5	39.4	0.9	13	167	2	3
	104.0	348.0	41.0	0.6	113	90	2	3
	108.0	352.8	42.3	1.7	102	84	2	3
	112.0	357.8	43.4	1.0	78	65	2	3
	116.0	3.0	44.1	1.5	112	103	2	3
	163.6	58.0	30.0	1.0	156	18	2	1
	172.0	64.2	24.3	1.0	112	159	2	3
	176.0	67.0	21.5	2.7	125	175	2	3
	182.0	70.7	17.0	1.7	103	155	1	3
- 17.8	140.0	34.0	42.0	2.3	156	176	1	1
- 17.6	60.0	311.0	14.0	1.7	165	110	1	1
- 17.0	37.0	299.2	- 4.3	0.5	98	36	2	2
	39.0	300.1	- 2.6	0.9	90	28	2	2
	41.0	301.0	- 0.9	1.3	89	28	2	2
	43.0	301.9	0.7	0.9	66	5	1	2
	151.0	47.0	38.0	0.7	123	155	2	1
- 16.8	59.0	310.0	14.0	1.7	161	106	1	1
	179.0	70.0	20.0	1.0	121	173	9	1
- 16.6	123.0	12.0	46.0	0.8	148	148	2	1
- 16.5	125.7	16.0	46.0	1.8	171	175	2	1
	159.0	55.0	34.0	0.7	158	16	2	1
- 16.3	143.4	39.0	42.0	2.1	158	3	2	1

TABLE 1 *(continued)*

LAT	LONG	R.A.	DECL	INT	GAL	EQ	N	PER
- 16.2	129.3	21.0	46.0	1.4	177	5	2	1
- 16.0	17.3	290.0	- 21.0	1.6	114	48	1	1
	34.0	297.0	- 6.4	0.3	41	158	2	3
	36.0	297.8	- 4.7	0.7	107	44	2	2
	46.0	302.4	3.7	0.2	24	144	2	3
	50.0	304.4	7.1	0.6	79	20	2	3
	54.0	306.5	10.3	1.0	118	60	2	3
	58.0	308.6	13.5	0.8	121	65	2	3
	62.0	310.9	16.7	0.8	16	142	2	3
	66.0	313.3	19.8	0.8	37	165	2	3
	70.0	315.9	22.8	0.6	34	163	2	3
	74.0	318.7	25.7	0.4	31	163	2	3
	78.0	321.6	28.5	0.4	135	89	2	3
	82.0	324.8	31.2	0.5	36	174	2	3
	86.0	328.2	33.7	0.5	10	150	2	3
	90.0	331.9	36.1	0.7	30	173	2	3
	94.0	335.8	38.3	0.4	165	132	2	3
	98.0	340.1	40.3	0.6	167	137	2	3
	102.0	344.6	42.1	0.2	55	30	2	3
	106.0	349.4	43.6	1.0	113	91	2	3
	110.0	354.8	44.8	1.2	57	41	2	3
	114.0	359.8	45.7	0.8	2	170	2	3
	118.0	5.3	46.3	0.8	177	171	2	3
	122.0	10.9	46.6	0.7	165	164	2	3
	162.0	58.0	32.4	1.1	148	9	2	3
	166.0	61.3	29.8	0.8	138	3	2	3
	170.0	64.4	27.1	0.9	121	168	2	3
	174.0	67.3	24.2	2.4	122	171	2	3
	184.0	73.6	16.7	2.5	154	28	1	3
- 15.6	133.0	26.0	46.0	1.4	172	5	2	1
- 15.2	58.0	308.0	14.0	1.6	162	106	1	1
- 15.0	39.0	298.3	- 1.7	1.0	86	24	2	2
	40.0	298.8	- 0.8	1.1	79	18	2	2
	41.0	299.2	0.0	1.0	89	28	2	2
	43.0	300.1	1.7	1.4	86	25	1	2
	167.0	63.0	30.0	0.3	179	44	2	1
	172.4	67.0	26.0	0.4	124	172	2	1
- 14.8	154.4	52.0	38.0	0.4	145	1	2	1
- 14.7	136.3	31.0	46.0	1.1	156	173	2	1
	147.0	44.0	42.0	0.9	137	166	2	1
- 14.4	57.5	307.0	14.0	1.5	163	106	1	1
- 14.0	32.0	294.3	- 7.3	0.2	98	35	2	3
	36.0	296.1	- 3.8	0.4	54	171	3	2
	39.0	297.4	- 1.2	1.1	67	5	2	2
	40.0	297.9	- 0.4	1.3	68	6	2	2
	41.0	298.3	0.5	0.6	67	5	2	2
	44.0	299.7	3.0	0.5	48	167	2	3
	48.0	301.7	6.4	0.6	113	54	2	3
	52.0	303.7	9.7	1.2	117	59	2	3
	56.0	305.8	13.0	0.8	103	46	2	3
	60.0	308.0	16.3	0.4	106	51	2	3
	64.0	310.4	19.4	0.3	130	76	2	3
	68.0	312.9	22.5	1.0	89	37	2	3
	72.0	315.6	25.5	0.7	90	41	2	3
	76.0	318.5	28.4	0.6	137	90	3	3
	80.0	321.5	31.2	0.1	74	29	2	3
	84.0	324.9	33.9	0.5	70	28	2	3
	88.0	328.5	36.5	0.9	29	170	2	3
	92.0	332.3	38.8	0.3	153	117	2	3
	96.0	336.5	41.0	0.7	164	131	2	3
	100.0	341.0	43.0	0.4	45	17	2	3
	104.0	345.9	44.7	1.3	49	25	2	3
	108.0	351.0	46.1	0.8	42	22	2	3
	112.0	356.4	47.3	0.8	86	72	2	3
	116.0	2.1	48.1	0.8	104	94	2	3
	176.0	70.3	24.0	1.3	71	121	2	3
	180.0	72.9	21.0	0.7	52	104	2	3
	182.0	74.0	19.4	0.6	59	112	1	3
- 13.8	162.0	60.0	34.0	0.4	179	42	2	1
- 13.6	57.0	306.0	14.0	1.7	169	112	1	1
- 13.5	139.7	36.0	46.0	1.8	151	173	2	1
- 13.0	39.0	296.5	- 0.7	0.3	98	36	2	2
	40.0	297.0	0.1	0.6	85	23	2	2
	41.0	297.5	1.0	0.7	55	174	2	2
	43.0	298.4	2.7	0.2	122	61	2	2
- 12.8	150.0	49.0	42.0	1.1	167	20	2	1
- 12.6	77.0	318.0	30.0	0.3	143	95	59	1
	124.0	14.0	50.0	2.5	19	20	2	1
- 12.4	126.7	18.0	50.0	1.3	36	41	2	1
	157.6	57.0	38.0	0.2	154	14	2	1
	188.0	79.0	15.5	0.9	167	44	4	1
- 12.2	147.0	46.0	44.0	2.3	159	9	2	1
- 12.0	30.0	291.6	- 8.1	1.2	38	155	2	3
	34.0	293.4	- 4.6	1.2	14	131	2	3
	36.0	294.3	- 2.9	0.7	109	47	2	2
	39.0	295.6	- 0.3	0.5	95	33	2	2
	40.0	296.1	0.6	0.3	98	37	2	2
	41.0	296.6	1.4	0.6	90	28	2	2
	46.0	299.0	5.7	0.6	13	132	2	3
	50.0	300.9	9.1	0.7	10	131	2	3
	54.0	303.0	12.5	0.6	1	122	2	3
	58.0	305.2	15.7	0.5	2	126	2	3
	62.0	307.5	19.0	0.4	148	92	2	3
	66.0	309.9	22.2	0.8	140	86	2	3
	70.0	312.5	25.3	0.3	161	109	2	3
	74.0	315.3	28.3	0.3	150	100	2	3
	78.0	318.3	31.2	0.5	156	109	2	3
	82.0	321.5	34.0	0.4	172	128	2	3
	86.0	325.0	36.7	0.2	174	132	2	3
	90.0	328.8	39.2	0.3	32	173	2	3
	94.0	332.9	41.6	0.8	155	120	2	3
	98.0	337.2	43.7	0.4	167	136	2	3
	102.0	342.2	45.7	0.2	10	163	2	3
	106.0	347.3	47.3	0.6	0	157	2	3
	110.0	352.8	48.6	1.0	119	101	2	3
	114.0	358.6	49.6	0.3	40	27	2	3
	118.0	4.6	50.3	0.0	52	45	2	3
	122.0	10.7	50.6	1.1	135	133	2	3
	130.0	23.0	50.0	0.3	0	10	2	1
	143.0	41.0	46.0	1.3	172	18	2	1
	162.0	61.3	35.4	0.8	129	172	1	3
	166.0	64.7	32.7	0.5	3	49	2	3
	170.0	67.8	29.8	0.5	5	53	2	3
	184.0	77.0	19.0	3.0	123	178	1	3
- 11.8	180.0	75.0	22.1	2.0	71	125	2	1
- 11.8	180.3	75.0	22.0	1.0	157	31	3	1
- 11.6	175.4	72.0	26.0	0.8	103	155	2	1
- 11.4	133.0	28.0	50.0	0.4	52	67	2	1
- 11.0	55.3	303.0	14.0	1.6	172	114	1	1
	165.0	65.0	34.0	0.2	12	58	2	1
- 10.7	149.6	50.0	44.0	1.0	161	15	2	1
- 10.6	153.0	54.0	42.0	1.0	162	19	2	1
- 10.5	146.0	46.0	46.0	1.2	174	24	2	1
- 10.4	127.0	19.0	52.0	0.2	10	16	1	1
	136.4	33.0	50.0	1.1	9	28	3	1
	136.4	33.0	50.0	1.2	16	34	1	2
- 10.3	55.0	302.0	14.0	1.9	166	108	1	1
- 10.0	28.0	288.9	- 9.0	1.1	29	145	2	3
	32.0	290.7	- 5.5	1.2	23	140	2	3
	36.0	292.5	- 2.0	1.3	15	132	2	3
	44.0	296.2	5.0	1.3	15	134	2	3
	48.0	298.2	8.4	0.5	169	109	2	3
	52.0	300.2	11.8	0.4	149	90	2	3
	56.0	302.3	15.2	0.6	148	90	2	3
	60.0	304.6	18.5	0.9	132	76	2	3
	64.0	306.9	21.7	1.0	136	81	2	3
	68.0	309.4	24.9	0.9	130	76	2	3
	72.0	312.1	28.1	0.6	172	121	2	3
	76.0	315.0	31.1	0.7	168	118	2	3
	80.0	318.1	34.0	0.1	142	95	2	3
	84.0	321.5	36.8	0.8	40	176	2	3
	88.0	325.2	39.5	0.9	55	13	2	3
	92.0	329.2	42.0	0.2	35	177	2	3
	96.0	333.6	44.4	0.6	142	108	2	3
	100.0	338.3	46.5	0.2	8	157	2	3
	104.0	343.4	48.3	0.3	86	60	2	3
	108.0	349.0	49.9	0.7	145	124	2	3
	112.0	354.8	51.1	0.9	97	82	2	3
	116.0	1.0	52.0	0.4	0	170	2	3
	120.0	7.4	52.5	0.5	177	173	2	3
	124.0	13.9	52.6	0.2	23	25	2	3
	128.0	20.3	52.3	0.6	169	176	2	3
	151.0	52.0	44.0	1.1	145	0	2	1
	164.0	64.7	35.5	0.5	167	32	2	3
	168.0	68.0	32.6	0.8	155	23	2	3
	172.0	71.0	29.6	0.6	171	42	2	3
	176.0	73.8	26.5	1.6	71	123	2	3
	180.0	76.4	23.4	0.5	32	86	2	3
	182.0	77.6	21.7	0.8	106	161	1	3
- 9.7	160.6	62.0	38.0	0.2	63	106	2	1
- 9.3	139.4	38.0	50.0	1.0	151	174	2	1
- 8.8	145.0	46.0	48.0	1.6	159	8	2	1
- 8.3	156.0	59.0	42.0	0.5	173	34	2	1
- 8.2	55.0	300.2	15.2	1.6	136	77	1	3
- 8.0	26.0	286.2	- 9.9	0.6	73	9	2	3
	30.0	288.0	- 6.3	1.1	5	122	2	3
	34.0	289.8	- 2.8	0.9	18	135	2	3
	38.0	291.7	0.7	0.7	173	111	2	3
	42.0	293.5	4.2	1.4	177	115	2	3
	46.0	295.4	7.7	0.6	10	129	2	3
	50.0	297.4	11.1	0.8	160	101	2	3
	54.0	299.5	14.5	0.4	136	77	2	3
	58.0	301.7	17.9	0.4	133	75	2	3
	62.0	303.9	21.2	0.7	130	74	2	3
	66.0	306.4	24.5	0.4	128	73	2	3
	70.0	309.0	27.7	0.9	143	90	2	3
	74.0	311.7	30.9	0.3	31	159	2	3
	78.0	314.7	33.9	0.8	30	161	2	3
	82.0	318.0	36.8	0.7	32	166	2	3
	86.0	321.5	39.7	2.0	34	170	2	3
	90.0	325.4	42.3	0.9	17	156	2	3
	94.0	329.7	44.8	0.3	1	144	2	3
	98.0	334.3	47.1	1.2	177	144	2	3
	102.0	339.4	49.2	0.3	164	135	2	3
	106.0	344.9	51.0	1.3	135	111	2	3
	110.0	350.8	52.4	0.8	91	72	2	3
	114.0	357.1	53.5	1.1	154	140	2	3
	118.0	3.8	54.3	0.2	174	166	2	3
	122.0	10.5	54.6	0.5	169	168	2	3
	126.0	17.4	54.5	0.6	150	155	2	3
	142.3	43.0	50.0	1.4	160	7	2	1
	148.0	50.2	47.1	0.7	161	15	2	3
	162.0	64.8	38.3	0.4	165	30	2	3
	166.0	68.2	35.4	1.0	165	33	2	3
	170.0	71.3	32.4	1.9	57	107	2	3
	174.0	74.2	29.3	1.2	73	125	2	3
	178.0	76.9	26.1	2.1	60	115	2	3
	184.0	80.6	21.2	1.3	146	23	1	3
- 7.7	131.0	26.0	54.0	1.5	18	30	2	1
- 7.3	154.3	58.0	44.0	1.1	20	60	2	1
- 7.0	163.4	67.0	38.0	1.3	52	99	2	1
- 6.8	107.4	346.2	52.6	1.1	105	82	1	3
- 6.5	135.6	34.0	54.0	1.1	19	38	2	1
- 6.4	38.0	290.3	1.5	0.5	3	121	2	3
	145.0	48.0	50.0	0.5	57	88	3	1
- 6.3	127.3	20.0	56.0	0.4	19	26	2	1
- 6.2	52.3	297.0	14.0	1.5	16	137	1	1
- 6.0	24.0	283.5	- 10.7	0.6	41	158	2	3
	28.0	285.3	- 7.2	0.6	4	121	2	3
	32.0	287.1	- 3.6	1.6	8	125	2	3
	36.0	289.0	- 0.1	1.0	28	145	2	3
	40.0	290.8	3.4	1.0	15	133	2	3
	44.0	292.7	6.9	1.3	179	118	2	3
	48.0	294.7	10.4	0.6	178	117	2	3
	52.0	296.7	13.9	0.5	2	122	2	3
	56.0	298.8	17.3	0.3	132	73	2	3
	60.0	301.0	20.7	1.2	146	88	2	3
	64.0	303.3	24.0	0.5	124	68	2	3
	68.0	305.8	27.3	0.7	141	86	2	3
	72.0	308.5	30.5	0.7	144	91	2	3
	76.0	311.4	33.7	0.4	13	141	2	3
	80.0	314.5	36.7	0.1	58	9	2	3
	84.0	317.9	39.7	0.7	62	15	1	3
	88.0	321.6	42.5	0.3	29	166	2	3
	92.0	325.7	45.1	0.7	170	129	2	3
	96.0	330.2	47.6	0.7	21	164	2	3
	100.0	335.2	49.9	0.6	178	145	2	3
	104.0	340.6	51.9	0.1	88	60	2	3
	108.0	346.6	53.6	1.1	158	135	2	3
	112.0	353.0	55.0	0.5	169	151	2	3

TABLE 1 *(continued)*

LAT	LONG	R.A.	DECL	INT	GAL	EQ	N	PER
- 6.0	116.0	359.8	55.9	0.9	4	173	2	3
	120.0	6.8	56.5	1.0	170	165	2	3
	124.0	14.1	56.6	0.3	12	14	2	3
	128.0	21.2	56.3	0.7	9	17	2	3
	150.0	54.3	47.6	1.3	0	36	2	3
	154.0	58.8	45.1	0.9	155	15	2	3
	160.0	64.8	41.1	0.5	166	31	2	3
	164.0	68.4	38.2	1.1	30	78	2	3
	168.0	71.6	35.2	0.5	163	33	2	3
	172.0	74.6	32.1	0.2	59	111	3	3
	176.0	77.4	28.9	0.2	144	18	1	3
	180.0	80.0	25.6	0.4	166	41	2	3
	182.0	81.2	24.0	0.2	123	179	1	3
- 5.8	159.0	64.0	42.0	0.6	175	39	2	1
- 5.7	184.6	83.0	22.0	1.2	14	71	1	1
- 5.6	184.6	83.1	22.0	1.5	93	150	1	1
- 5.5	59.0	300.0	20.0	0.6	170	112	1	1
- 5.4	156.4	62.0	44.0	1.3	175	38	2	1
- 5.3	52.0	296.0	14.0	1.2	27	147	1	1
	143.0	46.0	52.0	1.0	64	94	2	1
- 4.6	140.0	42.0	54.0	2.5	10	37	2	1
- 4.2	151.7	58.0	48.0	1.2	5	45	2	1
- 4.0	26.0	282.6	- 8.1	1.5	163	100	2	3
	30.0	284.4	- 4.5	1.6	176	113	2	3
	34.0	286.3	- 1.0	0.7	171	108	2	3
	38.0	288.1	2.6	0.2	44	161	2	3
	42.0	290.0	6.1	0.3	173	111	2	3
	46.0	291.9	9.6	0.4	176	115	2	3
	50.0	293.9	13.1	0.7	12	131	2	3
	54.0	295.9	16.6	0.5	165	105	2	3
	58.0	298.1	20.0	1.0	160	101	2	3
	62.0	300.3	23.4	0.7	148	90	2	3
	66.0	302.7	26.8	1.2	147	91	2	3
	70.0	305.3	30.1	0.7	141	86	2	3
	74.0	308.0	33.3	0.3	161	108	2	3
	78.0	311.0	36.5	0.5	129	78	2	3
	82.0	314.2	39.5	0.7	48	179	2	3
	86.0	317.8	42.5	0.2	84	38	2	3
	90.0	321.7	45.3	0.6	178	135	2	3
	94.0	326.0	48.0	0.9	171	131	2	3
	97.3	330.0	50.0	1.2	111	74	1	1
	98.0	330.8	50.4	0.7	1	145	2	3
	102.0	336.2	52.6	0.9	133	101	1	3
	106.0	342.0	54.6	1.1	154	127	2	3
	110.0	348.5	56.2	2.1	18	177	2	3
	114.0	355.4	57.4	0.5	44	29	2	3
	118.0	2.7	58.2	2.1	6	177	2	3
	122.0	10.3	58.6	0.8	14	12	2	3
	126.0	18.0	58.5	1.4	2	7	2	3
	129.0	24.0	58.0	2.1	12	23	2	1
	156.0	62.8	45.3	1.0	179	43	2	3
	166.0	71.9	38.0	0.5	33	83	2	3
	172.0	76.5	33.3	0.6	17	70	2	3
	176.0	79.3	30.1	0.7	1	56	1	3
	180.0	81.8	26.8	0.9	13	70	2	3
	184.0	84.2	23.4	2.3	105	163	1	3
- 3.8	175.7	79.3	30.4	0.6	4	59	1	3
- 3.6	51.0	294.0	14.0	2.2	40	159	1	1
	131.3	28.0	58.0	3.1	10	24	1	1
- 3.5	142.0	46.0	54.0	3.7	5	34	2	1
- 3.3	146.0	52.0	52.0	1.7	54	89	2	1
	158.5	66.0	44.0	1.5	172	38	2	1
- 3.0	133.3	32.0	58.0	1.3	3	20	1	1
	161.5	69.0	42.0	1.2	35	83	2	1
- 2.8	50.3	293.0	14.0	1.8	39	158	1	1
- 2.6	150.4	58.0	50.0	2.1	172	32	2	1
- 2.4	81.0	312.0	40.0	3.2	178	127	2	1
	127.0	20.0	60.0	1.1	4	11	2	1
	153.7	62.0	48.0	1.7	177	40	2	1
- 2.3	135.3	36.0	58.0	2.8	158	178	1	1
	144.0	50.0	54.0	3.5	27	60	2	1
- 2.0	24.0	279.9	- 8.9	3.2	162	99	3	3
	28.0	281.7	- 5.4	3.0	166	103	2	3
	32.0	283.6	- 1.8	2.5	157	95	2	3
	36.0	285.4	1.7	2.8	159	97	2	3
	40.0	287.3	5.3	2.4	165	103	2	3
	44.0	289.2	8.8	1.5	163	101	2	3
	48.0	291.1	12.3	0.8	9	128	2	3
	50.0	292.0	14.0	3.8	47	166	2	1
	52.0	293.1	15.8	0.7	150	89	2	3
	56.0	295.2	19.3	0.7	153	93	2	3
	60.0	297.3	22.8	0.5	167	107	2	3
	64.0	299.6	26.2	0.5	135	77	2	3
	68.0	302.1	29.5	0.6	136	79	2	3
	72.0	304.7	32.8	0.3	4	128	2	3
	76.0	307.5	36.1	0.0	126	72	2	3
	80.0	310.6	39.3	0.3	158	106	2	3
	84.0	314.0	42.3	1.6	168	119	2	3
	88.0	317.7	45.3	0.3	164	118	2	3
	92.0	321.8	48.1	0.6	2	138	2	3
	93.0	322.9	48.9	0.8	35	173	2	3
	100.0	331.6	53.2	0.7	168	133	2	3
	104.0	337.3	55.4	1.2	41	10	2	3
	108.0	343.7	57.2	0.1	99	74	2	3
	112.0	350.5	58.6	5.0	128	109	2	1
	116.0	358.2	59.8	1.8	149	137	2	3
	120.0	6.2	60.5	1.0	7	2	2	3
	124.0	14.3	60.6	1.2	173	175	2	3
	128.0	22.4	60.2	0.5	76	85	2	3
	129.0	24.0	60.0	0.9	104	115	2	1
	164.0	72.3	40.8	0.6	50	100	1	3
	168.0	75.5	37.7	0.5	53	106	2	3
	172.0	78.5	34.5	1.6	40	95	2	3
	176.0	81.2	31.2	1.0	79	135	2	3
	180.0	83.7	27.9	0.6	131	9	2	3
	182.0	84.9	26.2	0.6	19	77	1	3
- 1.8	141.0	46.0	56.0	4.2	12	41	2	1
- 1.7	131.0	28.0	60.0	2.2	163	177	2	1
	164.0	72.8	40.8	0.8	40	91	1	3
- 1.6	94.3	324.0	50.0	0.3	122	80	1	1
	111.7	350.0	59.0	4.4	161	141	1	1
- 1.5	137.3	40.0	58.0	3.2	13	37	1	1
	165.4	74.0	40.0	2.2	59	111	3	1
- 1.2	160.5	70.0	44.0	1.8	4	52	2	1
- 1.0	49.4	291.0	14.0	3.0	41	160	2	1

LAT	LONG	R.A.	DECL	INT	GAL	EQ	N	PER
- 1.0	132.7	32.0	60.0	2.2	126	144	2	1
	146.0	54.0	54.0	2.0	40	76	2	1
	149.0	58.0	52.0	2.2	7	47	2	1
	152.4	62.0	50.0	2.2	4	47	2	1
- 0.8	59.6	296.0	23.0	1.1	173	113	15	1
	99.7	330.0	54.0	0.3	72	35	2	1
	116.5	358.8	61.1	1.2	158	146	1	3
- 0.6	143.0	50.0	56.0	3.4	18	51	2	1
	155.6	66.0	48.0	1.9	169	35	2	1
- 0.5	134.6	36.0	60.0	0.6	162	2	2	1
- 0.4	44.5	288.0	10.0	2.6	18	136	2	1
- 0.2	67.4	300.0	30.0	0.8	14	136	1	1
	170.0	79.0	37.0	2.7	39	93	2	1
0.0	22.0	277.1	- 9.8	4.2	109	47	1	2
	24.0	278.1	- 8.0	1.5	113	51	2	2
	26.0	279.0	- 6.2	2.3	112	50	1	2
	28.0	279.9	- 4.4	1.5	132	70	2	2
	32.0	281.9	- 0.9	1.4	21	138	2	2
	36.0	283.6	2.7	3.9	146	83	1	1
	36.0	283.6	2.7	0.9	51	168	4	2
	38.0	284.6	4.4	2.4	154	92	1	1
	40.0	285.5	6.2	1.8	175	112	1	1
	40.0	285.5	6.2	0.4	96	34	2	2
	42.0	286.4	8.0	1.7	163	101	1	1
	44.0	287.4	9.8	1.5	4	122	1	1
	44.0	287.4	9.8	0.8	1	119	2	2
	46.0	288.3	11.6	0.9	7	125	1	1
	48.0	289.3	13.3	1.4	126	64	1	1
	48.0	289.3	13.3	2.1	87	25	2	2
	50.0	290.3	15.0	0.9	95	33	1	1
	52.0	291.3	16.8	0.4	131	70	1	1
	52.0	291.3	16.8	1.8	139	78	2	2
	56.0	293.3	20.3	0.6	73	13	1	1
	56.0	293.3	20.3	1.1	136	75	4	2
	60.0	295.5	23.8	0.7	121	61	2	2
	62.0	296.6	25.5	0.6	159	100	2	1
	64.0	297.7	27.2	0.2	66	7	2	1
	64.0	297.7	27.2	0.8	163	104	2	2
	66.0	298.9	28.9	1.1	3	125	2	1
	68.0	300.1	30.6	1.0	5	127	2	1
	68.0	300.1	30.6	0.2	174	116	2	2
	70.0	301.4	32.3	0.7	4	127	2	1
	72.0	302.7	34.0	0.6	10	134	1	1
	74.0	304.1	35.6	1.7	9	134	2	1
	76.0	305.5	37.3	2.4	174	119	1	1
	78.0	307.0	38.9	3.0	14	141	2	1
	80.0	308.5	40.5	2.9	17	144	2	1
	82.0	310.2	42.1	1.6	27	155	2	1
	84.0	311.9	43.7	1.8	176	126	2	1
	86.0	313.7	45.2	0.6	145	96	2	1
	88.0	315.6	46.7	0.3	14	147	2	1
	90.0	317.6	48.1	0.7	16	150	2	1
	92.0	319.7	49.6	0.3	174	129	2	1
	94.0	322.0	50.9	0.2	55	12	2	1
	96.0	324.3	52.3	0.2	129	88	2	1
	98.0	326.9	53.6	0.2	8	149	2	1
	100.0	329.6	54.8	0.4	87	50	2	1
	102.0	332.4	56.0	0.6	131	96	2	1
	104.0	335.5	57.1	0.4	160	128	2	1
	106.0	338.7	58.1	0.9	125	96	2	1
	107.0	340.0	58.6	1.1	175	147	11	1
	108.0	342.0	59.0	1.6	110	83	2	1
	110.0	345.6	59.9	3.3	114	91	2	1
	112.0	349.4	60.6	2.9	58	38	2	1
	114.0	353.3	61.3	0.5	8	171	2	1
	116.0	357.3	61.8	0.6	123	110	2	1
	118.0	1.5	62.2	0.4	47	38	2	1
	120.0	5.8	62.5	1.2	50	44	2	1
	122.0	10.1	62.6	0.8	15	13	2	1
	124.0	14.4	62.6	1.3	23	24	2	1
	126.0	18.8	62.5	2.2	28	33	2	1
	128.0	23.0	62.2	2.0	33	42	2	1
	128.5	24.0	62.0	2.5	33	44	2	1
	130.0	27.2	61.8	1.4	48	61	2	1
	132.0	31.2	61.3	0.8	107	123	2	1
	134.0	35.2	60.6	0.7	137	157	2	1
	136.0	38.9	59.9	1.8	1	25	2	1
	138.0	42.5	59.0	3.0	12	39	2	1
	140.0	46.0	58.0	3.4	11	41	3	1
	142.0	49.1	57.1	4.0	15	47	2	1
	144.0	52.1	56.0	4.3	24	59	2	1
	146.0	54.9	54.8	2.4	38	75	2	1
	147.4	57.0	54.0	2.0	0	39	1	3
	148.0	57.6	53.6	0.2	107	146	2	1
	150.0	60.2	52.3	1.1	16	57	2	1
	152.0	62.6	50.9	1.4	16	60	2	1
	154.0	64.8	49.6	1.9	15	60	2	1
	156.0	66.9	48.1	1.1	169	36	2	1
	158.0	69.0	46.7	0.4	63	111	2	1
	160.0	70.8	45.2	1.1	15	64	2	1
	162.0	72.6	43.6	2.0	45	96	2	1
	164.0	74.4	42.1	2.4	47	99	2	1
	166.0	76.0	40.5	1.7	34	87	1	1
	168.0	77.5	38.9	1.0	48	102	2	1
	172.0	80.5	35.6	0.7	45	100	2	3
	174.0	81.8	34.0	0.4	27	83	2	3
	176.0	83.1	32.3	0.6	12	69	2	3
	178.0	84.4	30.6	0.4	151	29	2	3
	180.0	85.6	28.9	0.5	28	86	2	3
	182.0	86.8	27.2	0.7	97	156	1	3
	184.0	87.9	25.5	0.2	146	25	1	3
0.3	76.3	305.5	37.7	1.2	170	115	1	1
	130.3	28.0	62.0	1.7	29	43	5	1
	136.4	40.0	60.0	2.0	178	22	2	1
0.4	148.0	58.0	54.0	2.1	62	101	2	1
0.5	151.0	62.0	52.0	1.0	15	57	2	1
0.6	145.0	54.0	56.0	2.8	37	73	2	1
0.8	132.0	32.0	62.0	1.4	166	3	3	1
	154.0	66.0	50.0	2.3	179	45	2	1
1.0	142.0	50.0	58.0	3.4	10	43	2	1
	162.3	74.0	44.0	1.9	58	109	3	1
	167.3	78.0	40.0	1.7	55	109	3	1
1.2	149.0	60.0	54.0	2.4	46	87	2	1
1.4	97.0	324.0	54.0	0.7	67	25	2	1
	123.0	12.0	64.0	1.9	13	13	2	1

TABLE 1 *(continued)*

LAT	LONG	R.A.	DECL	INT	GAL	EQ	N	PER
1.4	134.0	36.0	62.0	2.2	9	30	3	1
	157.5	70.0	48.0	2.3	19	68	3	1
1.6	126.4	20.0	64.0	1.2	31	38	2	1
	143.0	52.0	58.0	0.5	163	18	2	1
1.7	139.0	46.0	60.0	3.7	2	32	2	1
1.8	78.5	305.5	40.4	1.8	171	116	1	1
	178.0	86.1	31.7	0.4	63	121	1	3
2.0	20.0	274.4	- 10.6	1.1	96	35	2	2
	24.0	276.3	- 7.1	2.6	77	15	2	2
	28.0	278.2	- 3.5	1.5	64	2	4	2
	32.0	280.0	0.0	1.4	48	165	2	2
	40.0	283.7	7.1	1.0	85	22	2	2
	42.0	284.6	8.9	0.9	178	116	2	2
	46.0	286.5	12.5	1.1	29	146	2	2
	50.0	288.4	16.0	1.0	25	143	2	2
	54.0	290.4	19.5	0.2	174	112	2	2
	58.0	292.5	23.0	0.6	153	92	2	2
	62.0	294.6	26.5	0.2	46	166	2	2
	66.0	296.9	30.0	0.4	166	106	2	3
	70.0	299.4	33.4	0.7	148	90	2	3
	74.0	302.0	36.7	0.5	124	67	2	3
	82.0	308.0	43.3	1.3	0	126	2	3
	86.0	311.5	46.4	0.3	0	129	2	3
	90.0	315.3	49.5	0.3	122	74	2	3
	90.6	316.0	50.0	0.6	134	86	1	1
	98.0	324.7	55.1	0.5	29	168	2	3
	102.0	330.3	57.6	0.8	176	140	2	3
	106.0	336.7	59.8	0.5	173	142	2	3
	110.0	343.9	61.7	1.4	29	4	3	3
	114.0	352.0	63.2	1.4	1	163	2	3
	118.0	0.7	64.2	1.2	23	12	2	3
	122.0	9.9	64.6	1.5	10	8	2	3
	128.0	24.0	64.0	1.3	11	21	2	1
	135.6	40.0	62.0	2.3	154	178	3	1
	146.6	58.0	56.0	1.8	49	88	2	1
	170.0	81.1	38.4	2.2	57	113	2	3
	174.0	83.8	35.1	0.8	74	131	2	3
	178.0	86.4	31.7	1.8	66	124	1	3
	182.0	88.7	28.2	0.3	135	15	1	3
2.2	130.0	28.0	64.0	0.7	166	179	2	1
	143.7	54.0	58.0	1.5	41	78	4	1
	153.0	66.0	52.0	1.8	5	50	2	1
	160.7	74.0	46.0	1.2	9	61	3	1
2.4	102.0	330.0	58.0	0.7	118	81	1	1
2.7	131.5	32.0	64.0	0.6	168	6	2	1
	141.0	50.0	60.0	1.6	44	77	2	1
	156.0	70.0	50.0	2.4	34	83	2	1
3.0	19.3	273.3	- 10.8	2.3	26	145	1	2
	32.0	279.1	0.5	2.4	54	172	2	2
	36.0	281.0	4.0	2.6	52	169	2	2
	166.0	79.2	42.3	0.9	50	105	2	3
3.3	133.0	36.0	64.0	3.3	156	177	2	1
	164.0	78.0	44.0	2.4	66	120	3	1
3.4	123.0	12.0	66.0	1.5	9	9	2	1
	138.0	46.0	62.0	3.3	0	29	2	1
	169.0	82.0	40.0	0.6	81	138	2	1
3.5	34.6	279.9	3.0	0.5	116	53	1	3
	145.3	58.0	58.0	2.9	57	96	2	1
	159.0	74.0	48.0	2.5	17	68	1	1
3.6	79.4	304.2	42.1	1.8	14	139	2	3
	126.0	20.0	66.0	1.7	113	119	1	1
	151.3	66.0	54.0	2.6	63	109	2	1
	161.0	76.0	46.5	2.2	63	116	1	1
3.8	127.7	24.0	66.0	1.7	96	106	2	1
	140.7	51.0	61.0	4.5	32	65	5	1
	142.5	54.0	60.0	4.1	43	79	2	1
4.0	20.0	272.6	- 9.6	2.5	88	27	2	2
	22.0	273.6	- 7.9	2.3	82	20	2	2
	24.0	274.5	- 6.1	1.2	88	26	2	2
	26.0	275.5	- 4.4	2.1	82	20	2	2
	28.0	276.4	- 2.6	1.8	78	15	2	2
	30.0	277.3	- 0.8	2.6	68	6	2	2
	34.0	279.2	2.7	2.6	81	18	2	2
	38.0	281.0	6.3	3.8	81	18	2	2
	40.0	281.9	8.1	2.3	78	15	2	2
	44.0	283.8	11.6	1.4	5	122	2	2
	46.7	285.0	14.0	1.5	19	136	1	1
	48.0	285.6	15.2	1.7	0	117	2	2
	52.0	287.6	18.7	1.3	177	115	2	2
	56.0	289.5	22.2	0.9	169	107	2	2
	60.0	291.6	25.7	0.9	6	124	2	2
	64.0	293.8	29.2	0.9	0	120	2	2
	68.0	296.1	32.7	1.2	9	129	2	2
	72.0	298.6	36.1	1.1	0	121	2	3
	76.0	301.3	39.5	2.1	173	115	2	3
	84.0	307.4	46.1	0.7	128	74	1	3
	88.0	311.0	49.3	1.1	46	175	2	2
	92.0	315.1	52.3	1.1	169	121	2	3
	96.0	319.7	55.2	0.5	89	44	2	3
	100.0	325.0	57.9	0.7	160	119	2	3
	104.0	331.1	60.4	0.7	7	151	2	3
	108.0	338.2	62.6	0.8	156	126	1	3
	112.0	346.2	64.4	0.4	19	176	2	3
	116.0	355.1	65.7	0.9	6	171	2	3
	120.0	4.8	66.4	1.6	61	55	2	3
	135.0	40.0	64.0	6.1	159	4	4	1
	154.4	70.0	52.0	1.0	1	50	2	1
	168.0	81.8	41.2	0.5	21	78	2	3
	172.0	84.6	37.8	0.4	55	113	2	3
	176.0	87.2	34.4	0.1	40	100	2	3
	180.0	89.6	31.0	0.6	59	119	2	3
	184.0	91.8	27.5	0.7	110	171	1	3
4.2	129.3	28.0	66.0	2.7	117	131	2	1
	149.0	64.0	56.0	2.4	52	96	1	1
4.4	99.6	324.0	58.0	0.5	84	42	2	1
	139.7	50.0	62.0	3.7	9	42	2	1
	162.4	78.0	46.0	3.4	67	121	3	1
4.6	131.0	32.0	66.0	3.3	158	176	2	1
4.7	93.6	316.0	54.0	0.7	95	47	2	1
	142.0	54.0	61.0	5.1	25	61	3	1
5.0	140.0	51.0	62.5	4.1	168	22	4	1
	144.0	58.0	60.0	4.9	28	68	2	1
	147.0	62.0	58.0	5.2	61	104	2	1
	150.0	66.0	56.0	5.8	81	126	1	1
5.2	132.4	36.0	66.0	6.0	163	4	2	1
5.2	137.0	46.0	64.0	5.3	158	7	1	1
5.4	123.0	12.0	68.0	2.0	6	6	1	1
	153.0	70.0	54.0	1.7	73	122	2	1
5.5	141.3	54.0	62.0	4.6	1	37	2	1
	143.0	57.0	61.0	4.6	10	49	4	1
5.6	104.5	330.0	62.0	0.4	14	157	2	1
	126.0	20.0	68.0	3.3	147	154	2	1
	161.0	78.0	48.0	2.1	57	111	2	1
	165.7	82.0	44.0	0.2	90	147	2	1
5.7	76.0	299.5	40.6	3.4	97	38	1	1
	158.4	76.0	50.0	2.0	66	119	2	1
5.8	46.0	283.0	14.0	1.3	11	128	1	1
	127.4	24.0	68.0	2.9	142	152	2	1
6.0	20.0	270.8	- 8.7	3.7	91	30	3	2
	24.0	272.8	- 5.2	1.3	97	35	2	2
	28.0	274.6	- 1.7	1.3	71	9	2	2
	32.0	276.5	1.9	1.6	62	0	2	2
	36.0	278.3	5.4	1.1	72	9	2	2
	40.0	280.1	9.0	0.4	76	13	2	2
	42.0	281.0	10.7	1.1	177	114	2	2
	46.0	282.9	14.3	0.2	179	116	2	2
	50.0	284.7	17.8	0.9	175	112	2	2
	54.0	286.6	21.4	0.3	96	33	2	2
	58.0	288.6	24.9	0.4	29	146	2	2
	62.0	290.7	28.4	0.5	50	168	2	2
	66.0	292.9	31.9	0.7	158	97	1	3
	70.0	295.2	35.4	2.3	166	105	2	3
	82.0	303.4	45.6	0.5	175	118	2	3
	86.0	306.8	48.9	1.4	163	109	2	3
	87.4	308.0	50.0	1.3	131	77	2	1
	94.0	314.8	55.1	1.9	154	105	2	3
	98.0	319.7	58.0	1.0	73	28	2	3
	102.0	325.4	60.7	0.9	163	122	2	3
	106.0	332.1	63.2	1.1	18	163	2	3
	110.0	339.9	65.3	1.1	167	139	2	3
	114.0	348.8	67.0	0.4	37	16	2	3
	118.0	358.8	68.1	1.2	165	153	1	3
	122.0	9.5	68.6	1.7	8	5	2	3
	129.0	28.0	68.0	4.8	136	150	2	1
	134.7	42.0	66.0	3.2	129	155	1	1
	138.6	50.0	64.0	4.2	147	0	2	1
	141.0	54.0	62.5	4.8	168	24	4	1
	156.0	74.0	52.0	1.1	63	115	2	1
	170.0	85.5	40.6	1.6	62	121	2	3
	174.0	88.1	37.1	0.3	133	13	2	3
	178.0	90.5	33.7	0.5	78	139	2	3
	182.0	92.7	30.2	0.6	76	138	1	3
6.3	139.0	51.0	64.0	4.6	163	17	3	1
6.4	145.6	62.0	60.0	4.3	37	79	4	1
	148.5	66.0	58.0	5.2	71	117	2	1
6.5	65.7	292.2	31.9	1.1	25	144	1	3
	130.3	32.0	68.0	4.5	131	149	2	1
	144.0	60.0	61.0	4.1	19	61	3	1
6.6	143.0	58.0	62.0	4.0	179	39	3	1
6.7	45.4	282.0	14.0	1.5	18	135	1	1
	142.0	57.0	62.5	4.4	5	44	3	1
	151.4	70.0	56.0	4.7	77	126	4	1
	164.0	82.0	46.0	0.6	158	35	2	1
7.0	131.7	36.0	68.0	4.7	122	143	2	1
	136.0	46.0	66.0	1.4	176	25	2	1
	140.0	54.0	64.0	5.6	160	16	4	1
7.2	154.4	74.0	54.0	4.5	64	116	2	1
7.4	96.6	316.0	58.0	1.4	50	1	2	1
	102.3	324.0	62.0	0.6	179	137	2	1
	123.0	12.0	70.0	1.4	142	142	2	1
7.6	120.0	4.0	70.0	1.2	9	1	2	1
	125.6	20.0	70.0	2.7	130	137	2	1
	133.0	40.0	68.0	5.5	124	149	2	1
	138.0	51.0	65.5	3.8	170	24	4	1
	143.0	60.0	62.5	4.2	14	55	3	1
7.7	89.0	307.4	52.3	1.6	170	116	1	3
	137.5	50.0	66.0	3.2	165	18	2	1
7.8	127.0	24.0	70.0	3.4	145	155	4	1
	147.0	66.0	60.0	4.3	45	91	2	1
	162.3	82.0	48.0	1.5	134	11	2	1
8.0	18.0	268.1	- 9.4	2.9	98	38	1	2
	20.0	269.1	- 7.7	1.6	106	45	2	2
	22.0	270.0	- 6.0	2.5	98	37	1	2
	24.0	271.0	- 4.2	1.5	103	41	2	2
	26.0	271.9	- 2.5	1.7	90	28	1	2
	28.0	272.9	- 0.7	0.7	67	5	2	2
	30.0	273.8	1.0	1.2	65	3	1	2
	32.0	274.7	2.8	1.5	62	179	2	2
	34.0	275.6	4.6	2.0	70	7	1	2
	36.0	276.5	6.3	1.2	70	7	2	2
	38.0	277.4	8.1	1.8	30	146	2	2
	40.0	278.3	9.9	1.3	40	157	2	2
	44.0	280.1	13.4	1.3	2	119	2	2
	48.0	281.9	17.0	0.9	5	122	2	2
	52.0	283.8	20.5	0.7	179	115	2	2
	56.0	285.7	24.1	1.1	163	99	2	2
	60.0	287.7	27.6	0.2	150	86	2	2
	64.0	289.7	31.1	0.4	28	145	2	2
	68.0	291.9	34.6	0.7	9	127	2	2
	72.0	294.2	38.1	2.2	24	143	2	2
	76.0	296.8	41.6	4.7	164	103	2	3
	80.0	299.5	45.0	1.4	160	101	2	2
	84.0	302.6	48.4	1.1	178	120	2	2
	88.0	306.0	51.7	1.6	164	109	2	2
	104.0	325.9	63.6	0.1	73	33	2	3
	112.0	342.0	68.0	1.6	36	10	2	3
	116.0	352.1	69.5	0.7	136	118	2	3
	128.4	28.0	70.0	2.8	153	167	2	1
	141.0	57.0	64.0	5.6	174	33	429	1
	141.0	57.0	64.0	5.7	175	34	556	2
	141.0	57.0	64.0	5.6	173	32	540	3
	144.0	62.0	62.0	4.3	20	63	3	1
	150.0	70.0	58.0	4.1	65	114	1	1
	157.5	78.0	52.0	2.2	33	88	2	1
	160.0	80.3	50.0	1.7	177	53	3	3
	164.0	83.5	46.7	1.6	1	59	3	3
	168.0	86.4	43.3	0.3	62	121	3	3
	172.0	89.0	39.9	1.6	21	82	2	3
	176.0	91.5	36.4	0.5	3	65	2	3
	180.0	93.7	32.9	0.9	25	87	1	3

TABLE 1 *(continued)*

LAT	LONG	R.A.	DECL	INT	GAL	EQ	N	PER
8.0	184.0	95.8	29.4	0.6	25	88	1	3
8.2	141.5	58.0	64.0	5.3	179	39	2	1
8.3	134.5	44.0	68.0	6.0	126	154	2	1
	136.6	48.8	67.0	2.2	141	173	1	3
	139.0	54.0	65.5	5.4	174	31	2	1
8.4	44.5	280.0	14.0	1.7	29	145	1	1
	90.6	308.0	54.0	1.0	80	26	2	1
	129.7	32.0	70.0	3.4	154	171	2	1
	153.0	74.0	56.0	4.1	59	111	2	1
8.6	135.0	44.0	68.0	4.7	119	149	2	1
8.7	139.0	54.0	66.0	4.8	170	27	2	1
	142.0	60.0	64.0	5.4	17	58	3	1
8.8	98.0	316.0	60.0	1.8	32	163	1	1
	107.0	330.0	66.0	1.2	47	10	2	1
9.0	95.0	312.0	58.0	1.5	165	114	1	1
	131.6	38.0	70.0	3.0	135	158	3	1
	140.0	57.0	65.5	6.6	179	38	3	1
	156.0	78.0	54.0	1.8	10	65	2	1
	160.6	82.0	50.0	1.9	154	31	2	1
9.2	145.5	66.0	62.0	5.1	22	68	1	1
9.3	44.0	279.0	14.0	1.6	24	140	1	1
	143.0	62.0	64.0	5.4	19	63	2	1
	148.4	70.0	60.0	4.7	27	76	2	1
9.4	123.0	12.0	72.0	0.7	7	7	2	1
9.5	125.4	20.0	72.0	1.8	128	135	2	1
9.6	151.0	74.0	58.0	3.8	41	94	1	1
9.7	126.6	24.0	72.0	3.1	136	147	2	1
	140.0	58.0	66.0	6.0	2	42	2	1
9.8	137.0	52.0	68.0	6.1	149	4	2	1
	141.0	60.0	65.5	6.2	7	49	3	1
10.0	16.0	265.3	− 10.1	1.9	101	41	2	2
	18.0	266.3	− 8.4	0.7	86	26	2	2
	20.0	267.3	− 6.7	0.9	60	179	2	2
	24.0	269.2	− 3.3	1.6	46	164	2	2
	28.0	271.1	0.2	2.2	39	157	2	2
	32.0	272.9	3.7	1.8	37	154	2	2
	36.0	274.7	7.2	1.2	39	155	2	2
	40.0	276.5	10.8	1.5	94	30	2	2
	42.0	277.5	12.5	0.4	177	113	2	2
	46.0	279.1	16.1	0.5	24	140	2	2
	50.0	280.9	19.6	0.4	130	66	2	2
	54.0	282.8	23.2	0.6	174	109	2	2
	58.0	284.7	26.7	0.4	5	120	2	2
	62.0	286.6	30.3	0.5	104	40	2	2
	66.0	288.7	33.8	0.8	171	107	2	3
	70.0	290.8	37.3	0.7	5	122	2	3
	74.0	293.2	40.8	0.6	32	149	2	3
	78.0	295.7	44.3	0.1	129	67	2	3
	82.0	298.5	47.7	0.2	9	129	2	3
	86.0	301.6	51.1	0.4	10	131	2	3
	90.0	305.1	54.4	0.7	12	136	2	3
	94.0	309.2	57.6	1.9	167	114	2	3
	98.0	313.9	60.7	1.4	179	129	2	3
	99.6	316.0	62.0	0.8	156	108	2	1
	102.0	319.6	63.7	0.9	11	145	2	3
	106.0	326.4	66.4	1.2	175	134	2	3
	110.0	334.6	68.7	2.3	134	100	2	3
	114.0	344.6	70.6	0.8	80	55	2	3
	118.0	356.2	72.0	1.6	135	121	2	3
	122.0	9.0	72.6	0.2	4	1	2	3
	126.0	22.1	72.4	1.8	116	125	2	3
	128.0	28.0	72.0	3.3	152	166	2	1
	133.5	44.0	70.0	5.8	132	161	3	1
	156.5	80.0	54.0	2.1	162	39	2	1
	159.0	82.0	52.0	2.0	126	4	2	1
	162.0	84.5	49.4	2.6	116	175	2	3
	166.0	87.5	46.0	1.8	56	117	2	3
	170.0	90.1	42.6	1.7	39	101	1	3
	174.0	92.5	39.1	0.9	56	119	1	3
	178.0	94.8	35.6	0.8	49	112	1	3
	182.0	96.9	32.0	0.5	83	146	1	3
10.2	154.0	78.0	56.0	3.2	175	50	1	1
10.3	84.5	300.0	50.0	0.7	2	122	2	1
	97.0	312.0	60.0	0.6	155	103	1	1
	129.0	32.0	72.0	4.1	135	153	2	1
10.4	105.0	324.0	66.0	0.8	40	178	2	1
10.6	144.0	66.0	64.0	5.2	14	60	2	1
	147.0	70.0	62.0	5.1	15	64	2	1
10.7	94.0	308.0	58.0	0.8	99	44	2	1
	130.3	36.0	72.0	4.8	127	148	4	1
	138.3	56.0	68.0	5.6	160	19	2	1
10.8	141.4	62.0	66.0	3.8	176	40	2	1
	149.6	74.0	60.0	4.3	11	63	2	1
11.0	43.0	277.0	14.0	1.8	22	138	1	1
	96.0	310.0	60.0	1.3	120	67	4	1
	135.3	50.0	70.0	5.3	132	166	3	1
11.2	131.4	40.0	72.0	5.6	128	153	2	1
	139.0	58.0	68.0	3.6	161	21	2	1
11.3	152.5	78.0	58.0	2.2	178	53	2	1
11.5	98.4	312.0	62.0	1.2	171	119	38	1
	125.0	20.0	74.0	0.8	70	77	2	1
	139.0	58.8	68.1	2.5	161	23	1	3
11.7	126.3	24.0	74.0	2.9	87	98	2	1
11.8	132.5	44.0	72.0	5.2	129	158	2	1
12.0	18.0	264.6	− 7.4	0.8	82	27	2	2
	22.0	266.5	− 4.0	1.3	89	28	2	2
	26.0	268.4	− 0.6	2.1	56	174	2	2
	30.0	270.2	2.9	0.9	40	157	2	2
	34.0	272.0	6.4	1.2	35	151	2	2
	36.0	272.9	8.1	0.9	47	163	2	2
	38.0	273.8	9.9	0.8	40	156	3	2
	40.0	274.6	11.6	0.8	47	163	2	2
	43.0	276.0	14.0	1.8	22	137	1	1
	44.0	276.4	15.2	0.8	173	108	2	2
	48.0	278.1	18.7	0.6	152	87	2	2
	52.0	279.9	22.2	0.9	157	92	2	2
	56.0	281.7	25.8	0.6	41	155	2	2
	60.0	283.6	29.3	0.4	41	156	2	2
	64.0	285.5	32.9	0.4	2	117	2	2
	68.0	287.5	36.4	0.7	36	151	2	2
	72.0	289.7	40.0	0.6	30	146	2	2
	76.0	292.0	43.5	1.2	54	171	2	2
	80.0	294.5	47.0	0.6	168	105	2	2
	84.0	297.3	50.4	0.2	155	94	2	2
	88.0	300.4	53.8	1.1	153	93	2	2
12.0	92.0	304.0	57.2	0.8	87	29	2	3
	96.0	308.2	60.4	1.3	111	56	2	3
	100.0	313.3	63.5	0.8	26	155	2	3
	104.0	319.4	66.5	0.5	27	161	2	3
	108.0	326.9	69.2	0.8	8	148	1	3
	112.0	336.3	71.5	1.7	160	128	2	3
	116.0	347.8	73.3	0.5	109	87	2	3
	120.0	1.3	74.4	1.2	16	6	2	3
	124.0	15.9	74.6	0.9	54	58	2	3
	127.4	28.0	74.0	1.8	98	112	2	1
	133.0	46.0	72.0	5.6	131	161	2	1
	136.4	54.0	70.0	2.5	138	175	2	1
	142.6	66.0	66.0	3.8	163	30	4	1
	145.0	70.0	64.0	3.2	4	54	2	1
	148.0	74.0	62.0	3.6	14	67	2	1
	152.0	78.5	58.8	1.7	140	16	2	3
	155.4	82.0	56.0	3.2	95	153	2	1
	160.0	85.7	52.1	2.2	35	95	2	3
	164.0	88.7	48.7	1.5	4	66	2	3
	168.0	91.3	45.2	2.1	13	76	3	3
	172.0	93.7	41.7	1.3	21	84	2	3
	176.0	95.9	38.2	0.4	97	161	2	3
	180.0	98.0	34.7	0.3	80	144	2	3
	184.0	100.0	31.1	0.4	59	124	1	3
12.2	140.0	62.0	68.0	0.9	128	172	2	1
12.3	88.0	300.0	54.0	0.3	112	52	2	1
	137.0	56.0	70.0	1.4	142	1	1	1
12.5	151.0	78.0	60.0	1.0	175	51	2	1
12.6	129.5	36.0	74.0	3.4	121	143	1	1
12.7	102.7	316.0	66.0	0.5	41	172	2	1
	134.0	50.0	72.0	3.1	127	160	2	1
	137.5	58.0	70.0	0.9	178	39	2	1
13.0	97.3	308.0	62.0	0.5	127	72	2	1
	143.7	70.0	66.0	3.1	168	38	2	1
13.2	128.0	32.0	75.0	1.1	80	98	2	1
	146.4	74.0	64.0	2.5	177	50	4	1
13.3	141.0	66.0	68.0	2.2	146	13	2	1
13.5	125.0	20.0	76.0	0.6	5	12	2	1
	135.0	54.0	72.0	0.8	142	179	2	1
13.6	42.0	274.0	14.0	2.1	19	135	1	1
	149.0	78.0	62.0	0.9	20	76	2	1
13.7	138.6	62.0	70.0	2.3	173	37	2	1
13.8	132.0	46.0	74.0	2.6	134	165	2	1
14.0	16.0	261.8	− 8.1	3.1	96	37	2	2
	18.0	262.8	− 6.6	3.2	89	29	2	2
	20.0	263.8	− 4.7	0.8	77	17	2	2
	24.0	265.7	− 1.3	0.8	50	169	2	2
	28.0	267.5	2.1	2.3	56	174	2	2
	32.0	269.3	5.5	1.0	178	115	2	2
	36.0	271.1	9.0	1.2	41	157	2	2
	40.0	272.8	12.5	1.1	19	135	2	2
	42.0	273.7	14.3	0.7	95	31	2	2
	46.0	275.4	17.8	2.1	98	33	2	2
	50.0	277.1	21.3	1.9	97	32	2	2
	54.0	278.8	24.8	1.4	91	25	2	2
	58.0	280.6	28.4	1.5	71	5	2	2
	62.0	282.4	31.9	0.6	39	153	2	2
	66.0	284.3	35.5	0.4	4	118	2	3
	70.0	286.2	39.0	0.5	11	125	2	3
	74.0	288.3	42.6	0.5	32	147	2	3
	78.0	290.6	46.1	0.3	29	144	2	3
	82.0	293.1	49.6	0.3	29	145	2	3
	86.0	295.9	53.1	0.2	38	155	3	3
	90.0	299.1	56.5	1.4	107	45	2	3
	94.0	302.7	59.9	0.4	77	18	2	3
	98.0	307.1	63.1	0.8	71	15	2	3
	102.0	312.4	66.3	0.7	27	155	2	3
	106.0	319.1	69.3	0.1	45	178	2	3
	110.0	327.5	71.9	0.3	11	150	2	3
	114.0	338.4	74.2	0.5	154	124	2	3
	118.0	352.1	75.8	1.9	7	168	2	3
	122.0	8.1	76.6	0.6	71	68	3	3
	127.0	28.0	76.0	1.6	73	87	2	1
	130.0	40.0	75.0	2.6	137	142	2	1
	130.0	40.0	75.0	2.2	133	159	10	3
	154.0	84.0	58.0	3.0	63	123	2	1
	154.0	84.0	58.0	2.3	70	131	8	3
	158.0	87.1	54.8	2.8	2	64	2	3
	162.0	90.0	51.3	1.5	112	175	2	3
	166.0	92.7	47.9	2.4	167	51	2	3
	170.0	95.0	44.3	2.5	13	78	2	3
	174.0	97.2	40.8	0.8	170	55	2	3
	178.0	99.3	37.3	1.1	58	124	2	3
	182.0	101.2	33.7	1.0	52	118	1	3
14.2	180.0	58.0	72.0	1.3	177	38	2	1
	152.0	82.0	60.0	1.9	67	127	2	1
14.3	91.6	300.0	58.0	1.1	44	163	1	1
14.4	133.0	50.0	74.0	1.2	155	9	2	1
	142.0	70.0	68.0	1.7	148	19	2	1
	144.7	74.0	66.0	2.3	163	37	2	1
14.5	129.0	36.0	76.0	0.9	112	134	2	1
14.6	139.6	66.0	70.0	1.5	148	16	3	1
14.7	77.7	289.6	46.1	0.8	28	143	1	3
	133.5	52.0	74.0	1.1	164	20	1	1
	147.4	78.0	64.0	1.5	146	23	2	1
15.0	134.0	54.0	74.0	1.7	167	25	2	1
	137.0	62.0	72.0	0.8	2	46	2	1
	145.0	76.0	66.0	1.9	140	16	1	1
15.2	150.0	82.0	62.0	0.4	4	63	2	1
15.3	100.7	308.0	66.0	0.6	163	107	2	1
	130.6	44.0	76.0	1.6	139	168	2	1
15.4	165.0	94.0	49.4	4.1	54	119	1	3
15.5	131.0	46.0	76.0	1.2	143	173	2	1
15.6	143.0	74.0	68.0	1.4	130	4	1	1
15.7	140.5	70.0	70.0	1.7	127	179	1	1
15.8	21.5	263.0	− 2.6	2.9	79	18	2	2
	126.4	28.0	78.0	0.8	21	35	1	1
	135.0	58.0	74.0	0.2	125	167	2	1
	145.7	78.0	66.0	1.1	114	171	2	1
16.0	14.0	259.1	− 8.7	1.8	51	173	2	2
	18.0	261.1	− 5.4	4.0	60	1	2	2
	26.0	264.9	1.3	1.7	48	166	2	2
	30.0	266.7	4.7	1.6	57	175	2	2
	34.0	268.4	8.2	1.2	1	117	2	2
	36.0	269.3	9.9	1.0	27	143	2	2

TABLE 1 *(continued)*

LAT	LONG	R.A.	DECL	INT	GAL	EQ	N	PER
16.0	38.0	270.1	11.6	1.0	12	127	2	2
	40.0	270.9	13.4	0.3	61	176	2	2
	44.0	272.6	16.8	0.9	0	114	2	2
	48.0	274.3	20.4	1.3	27	141	2	2
	52.0	275.9	23.9	0.5	144	78	2	2
	56.0	277.6	27.4	0.3	164	97	2	2
	60.0	279.3	31.0	0.3	8	121	2	2
	64.0	281.1	34.5	0.5	16	128	2	2
	68.0	282.9	38.1	0.2	80	13	2	2
	72.0	284.8	41.6	0.3	38	150	1	2
	76.0	286.9	45.1	1.3	15	128	2	2
	80.0	289.1	48.7	0.5	74	7	2	2
	84.0	291.6	52.2	0.4	54	169	2	2
	88.0	294.3	55.7	0.6	10	126	2	2
	92.0	297.5	59.1	2.3	105	42	2	3
	96.0	301.2	62.5	1.3	54	173	2	3
	100.0	305.6	65.8	0.8	51	173	2	3
	104.0	311.3	69.0	0.5	72	18	2	3
	108.0	318.5	72.0	0.7	17	149	2	3
	112.0	328.2	74.7	0.7	162	122	2	3
	116.0	341.2	76.9	0.3	90	62	2	3
	120.0	357.9	78.3	1.9	147	134	2	3
	124.0	17.1	78.6	0.9	5	9	2	3
	128.0	35.4	77.7	0.8	56	77	2	3
	132.0	50.0	76.0	1.4	154	8	2	1
	136.0	61.5	73.4	1.6	24	69	2	3
	138.0	66.0	72.0	0.9	160	28	2	1
	140.0	69.9	70.6	1.6	128	179	2	3
	144.0	76.2	67.5	0.6	124	0	2	3
	148.0	81.2	64.2	0.6	78	137	2	3
	152.0	85.3	60.8	0.9	104	166	2	3
	156.0	88.7	57.4	0.4	100	163	2	3
	160.0	91.6	53.9	0.3	33	98	2	3
	164.0	94.2	50.4	0.4	120	6	2	3
	168.0	96.5	46.9	3.7	18	85	2	3
	172.0	98.7	43.4	2.4	12	79	2	3
	176.0	100.6	39.8	0.1	97	164	2	3
	180.0	102.5	36.3	0.8	12	79	1	3
	184.0	104.3	32.7	0.6	83	151	1	3
16.2	92.3	297.5	59.5	1.4	119	56	1	3
	95.0	300.0	62.0	0.4	117	56	2	1
	148.3	82.0	64.0	0.6	40	100	2	1
16.5	135.7	62.0	74.0	0.7	47	92	2	1
16.6	132.7	54.0	76.0	1.7	173	31	2	1
16.8	144.0	78.0	68.0	0.1	63	120	2	1
17.0	40.0	270.0	14.0	1.2	16	131	1	1
17.2	133.4	58.0	76.0	1.4	15	56	3	1
	146.5	82.0	66.0	0.7	68	129	2	1
17.3	136.5	66.0	74.0	2.1	24	73	1	1
	141.7	76.0	70.0	1.6	138	15	2	1
17.5	124.4	20.0	80.0	0.9	163	170	3	1
17.7	126.0	28.0	80.0	0.6	149	163	3	1
	130.7	50.0	78.0	0.1	131	166	2	1
18.0	12.0	256.4	- 9.2	1.7	87	30	4	2
	16.0	258.4	- 6.0	2.5	49	170	4	2
	20.0	260.3	- 2.7	1.7	57	177	4	2
	24.0	262.2	0.6	1.8	39	158	2	2
	28.0	264.0	3.9	1.7	56	173	2	2
	32.0	265.7	7.3	0.9	50	167	2	2
	36.0	267.4	10.7	1.0	5	121	1	2
	40.0	269.0	14.0	1.1	27	142	1	1
	40.0	269.1	14.2	0.5	36	150	2	2
	42.0	269.9	15.9	0.7	69	4	2	2
	46.0	271.5	19.4	0.7	100	33	2	2
	50.0	273.1	22.9	0.6	86	19	2	2
	54.0	274.7	26.4	1.1	81	13	2	2
	58.0	276.3	29.9	0.6	73	5	2	2
	62.0	278.0	33.5	0.3	52	163	2	2
	66.0	279.7	37.0	1.6	18	129	2	3
	70.0	281.4	40.6	0.6	2	113	2	3
	74.0	283.3	44.1	0.7	38	149	2	3
	78.0	285.2	47.7	0.4	32	143	2	3
	82.0	287.4	51.2	0.1	175	107	2	3
	86.0	289.7	54.7	0.7	6	118	2	3
	90.0	292.4	58.3	1.6	23	136	2	3
	94.0	295.5	61.7	0.6	96	31	2	3
	98.0	299.2	65.2	0.4	109	45	2	3
	99.0	300.0	66.0	0.6	159	96	2	1
	102.0	303.8	68.5	1.3	87	27	2	3
	106.0	309.7	71.8	0.9	45	169	2	3
	110.0	317.7	74.8	1.5	4	134	2	3
	114.0	329.0	77.5	1.2	177	137	2	3
	118.0	345.1	79.5	0.6	176	151	2	3
	122.0	6.4	80.6	1.3	179	174	2	3
	134.0	62.0	76.0	1.5	21	67	2	1
	138.0	71.2	73.3	1.8	26	79	2	3
	142.0	78.0	70.0	1.1	137	15	2	1
	144.7	82.0	68.0	0.8	63	125	2	1
	150.0	87.3	63.5	1.2	46	111	2	3
	154.0	90.6	60.0	2.4	36	102	2	3
	158.0	93.5	56.5	0.8	114	1	1	3
	162.0	96.0	53.0	2.5	74	142	2	3
	166.0	98.2	49.4	3.2	51	120	2	3
	170.0	100.3	45.9	4.5	9	78	3	3
	174.0	102.2	42.3	0.8	16	85	3	3
	178.0	104.0	38.8	0.7	40	109	3	3
	182.0	105.7	35.3	0.7	88	157	1	3
18.2	127.0	36.0	80.0	0.6	85	107	3	1
	131.4	54.0	78.0	1.2	162	20	2	1
18.6	135.0	66.0	76.0	1.7	163	32	1	1
18.7	132.0	58.0	78.0	1.6	169	31	2	1
18.8	128.5	44.0	80.0	0.9	61	91	3	1
19.0	143.0	82.0	70.0	0.4	67	129	2	1
19.3	132.7	62.0	78.0	1.6	170	36	2	1
19.5	130.0	52.0	80.0	0.8	29	66	3	1
19.6	184.0	108.3	34.2	0.8	88	158	1	3
20.0	10.0	253.6	- 9.7	0.6	80	24	2	2
	12.0	254.7	- 8.1	1.0	65	8	2	2
	14.0	255.7	- 6.6	1.8	75	18	2	2
	16.0	256.7	- 5.0	2.0	71	13	2	2
	18.0	257.7	- 3.4	1.3	84	25	2	2
	20.0	258.6	- 1.7	2.1	85	25	2	2
	22.0	259.5	- 0.1	1.9	66	6	2	2
	24.0	260.5	1.5	1.4	44	163	2	2
	26.0	261.3	3.2	0.2	121	59	2	2
20.0	28.0	262.2	4.9	0.5	82	19	2	2
	30.0	263.1	6.5	0.9	80	17	2	2
	32.0	263.9	8.2	1.0	60	176	2	2
	34.0	264.8	9.9	1.0	31	147	2	2
	36.0	265.6	11.6	1.3	32	147	2	2
	38.0	266.4	13.3	0.6	10	125	2	2
	40.0	267.2	15.0	0.9	52	167	2	2
	44.0	268.8	18.5	0.1	2	115	2	2
	48.0	270.3	21.9	0.6	36	149	2	2
	52.0	271.9	25.4	1.1	21	133	2	2
	56.0	273.4	28.9	1.2	39	150	2	2
	60.0	275.0	32.4	1.5	47	157	2	2
	64.0	276.5	36.0	0.8	34	144	2	2
	68.0	278.1	39.5	0.7	39	149	2	2
	72.0	279.8	43.0	0.5	38	147	2	2
	76.0	281.5	46.6	0.8	48	157	2	2
	80.0	283.4	50.1	0.5	89	19	2	2
	84.0	285.4	53.7	0.3	27	136	2	2
	88.0	287.6	57.2	0.9	48	157	2	2
	92.0	290.1	60.8	0.9	110	40	2	3
	96.0	293.1	64.3	0.6	7	119	2	3
	100.0	296.7	67.7	1.0	66	0	2	3
	104.0	301.2	71.1	0.4	27	143	2	3
	108.0	307.4	74.4	1.3	24	145	2	3
	112.0	316.2	77.5	0.8	23	151	2	3
	116.0	329.9	80.2	0.9	22	162	2	3
	120.0	351.3	82.1	0.5	20	0	2	3
	124.0	19.2	82.5	1.2	40	47	2	3
	128.0	45.0	81.3	1.9	16	47	2	3
	133.3	66.0	78.0	1.7	176	46	2	1
	136.0	73.1	76.0	1.1	168	43	2	3
	140.0	80.5	72.8	1.6	23	84	2	3
	144.0	85.7	69.4	0.9	52	117	2	3
	148.0	89.7	66.0	0.7	69	136	2	3
	152.0	93.0	62.5	1.9	43	112	2	3
	153.7	94.0	61.0	2.6	23	92	25	1
	156.0	95.7	59.0	1.0	64	134	2	3
	160.0	98.0	55.5	1.4	56	126	2	3
	164.0	100.1	51.9	3.6	173	63	2	3
	168.0	102.1	48.4	4.4	19	90	2	3
	172.0	103.9	44.8	1.9	62	133	2	3
	176.0	105.6	41.3	0.9	81	152	2	3
	180.0	107.2	37.7	0.6	61	131	2	3
	184.0	108.8	34.2	0.7	90	160	1	3
	207.0	117.6	14.3	0.3	92	157	1	2
20.5	131.0	60.0	80.0	0.1	121	165	2	1
20.6	51.3	271.0	25.0	2.0	109	40	1	2
21.0	161.0	100.0	55.0	4.0	153	45	1	1
21.5	132.0	68.0	80.0	0.5	172	44	2	1
21.6	38.0	265.0	14.0	1.3	21	136	1	1
21.8	208.4	120.0	13.7	0.6	92	158	1	2
22.0	8.0	250.9	- 10.1	1.1	77	22	3	2
	12.0	253.0	- 7.0	1.1	71	15	4	2
	16.0	255.0	- 4.0	1.7	97	38	4	2
	20.0	256.9	- 0.7	1.6	61	1	4	2
	24.0	258.7	2.5	2.0	53	171	2	2
	28.0	260.4	5.8	1.9	56	173	2	2
	32.0	262.1	9.1	0.8	55	171	2	2
	36.0	263.7	12.4	1.0	19	134	2	2
	40.0	265.3	15.8	0.6	38	152	2	2
	42.0	266.1	17.5	0.9	68	1	2	2
	46.0	267.6	21.0	0.2	75	7	2	2
	50.0	269.1	24.4	0.7	46	157	2	2
	54.0	270.5	27.9	1.1	59	169	2	2
	58.0	272.0	31.4	1.2	79	8	3	2
	62.0	273.4	34.9	1.2	88	17	2	2
	170.0	105.8	47.2	3.8	41	114	4	3
	174.0	107.3	43.7	1.3	106	178	2	3
	178.0	108.9	40.1	0.3	129	21	2	3
	182.0	110.3	36.6	0.5	74	145	2	3
23.3	37.0	263.0	14.0	1.6	19	133	1	1
23.8	16.0	253.4	- 3.1	1.9	23	145	1	2
24.0	6.0	248.1	- 10.4	1.8	58	4	2	2
	8.0	249.2	- 9.0	1.3	91	36	2	2
	9.3	249.9	- 8.0	1.8	48	173	1	2
	10.0	250.3	- 7.5	0.7	59	4	2	2
	12.0	251.3	- 5.9	1.6	80	24	2	2
	14.0	252.3	- 4.4	1.3	84	26	2	2
	16.0	253.3	- 2.9	2.0	96	38	2	2
	18.0	254.2	- 1.3	1.2	95	36	2	2
	20.0	255.1	0.3	2.1	93	33	2	2
	24.0	256.9	3.5	2.4	107	45	2	2
	28.0	258.6	6.7	0.5	121	58	2	2
	32.0	260.3	10.0	0.4	15	131	2	2
	36.0	261.9	13.3	1.6	26	141	2	2
	44.0	264.9	20.0	0.1	30	142	2	2
	48.0	266.3	23.4	0.6	31	142	2	2
	52.0	267.7	26.8	1.2	33	142	2	2
	56.0	269.1	30.3	1.1	41	149	2	2
	60.0	270.4	33.7	0.9	57	165	2	2
	64.0	271.8	37.2	0.9	48	155	2	2
	68.0	273.1	40.7	1.0	31	137	2	2
	72.0	274.5	44.2	0.5	21	126	2	2
	76.0	275.9	47.8	0.3	45	150	2	2
	80.0	277.4	51.3	0.6	18	123	2	2
	84.0	278.8	54.8	0.9	158	82	2	2
	88.0	280.4	58.4	0.3	30	133	2	2
	92.0	282.2	61.9	0.8	177	101	2	3
	96.0	284.1	65.5	0.7	159	83	2	3
	100.0	286.4	69.0	0.7	82	7	2	3
	104.0	289.2	72.6	0.9	37	142	2	3
	108.0	293.0	76.1	0.5	29	136	2	3
	112.0	298.7	79.5	0.4	2	113	2	3
	116.0	309.0	82.8	0.8	2	122	2	3
	120.0	333.1	85.7	1.2	10	152	2	3
	124.0	27.3	86.5	0.7	30	44	2	3
	128.0	66.3	84.4	0.8	13	65	2	3
	132.0	81.5	81.2	1.8	44	110	2	3
	136.0	89.0	77.8	1.3	41	112	2	3
	140.0	93.5	74.3	1.3	14	88	2	3
	144.0	96.8	70.8	1.0	13	88	2	3
	148.0	99.3	67.3	1.0	24	100	2	3
	152.0	101.4	63.7	0.6	19	95	2	3
	156.0	103.2	60.2	0.8	6	83	2	3
	160.0	104.9	56.6	0.4	43	119	2	3

TABLE 1 *(continued)*

LAT	LONG	R.A.	DECL	INT	GAL	EQ	N	PER
24.2	37.0	262.0	14.0	1.3	9	124	6	1
25.2	34.0	260.0	12.0	0.7	11	125	2	1
25.6	111.4	289.7	79.5	0.6	24	126	1	3
26.0	4.0	245.4	- 10.7	1.2	74	21	2	2
	8.0	247.6	- 7.8	1.2	72	18	2	2
	12.0	249.6	- 4.8	1.3	85	29	4	2
	16.0	251.6	- 1.8	2.0	100	42	2	2
	20.0	253.4	1.3	0.7	134	74	4	2
	28.0	256.9	7.6	0.2	175	112	2	2
	32.0	258.5	10.8	0.9	31	146	2	2
	36.0	260.0	14.1	0.7	24	138	2	2
	40.0	261.5	17.4	1.3	24	136	2	2
	42.0	262.2	19.1	0.8	16	128	2	2
	46.0	263.6	22.4	0.9	3	113	2	2
	50.0	264.9	25.8	0.9	16	125	2	2
	54.0	266.2	29.2	0.8	9	118	2	2
	58.0	267.5	32.6	1.0	29	136	2	2
	62.0	268.8	36.1	0.8	93	19	2	2
	170.0	111.5	48.2	2.5	104	1	3	3
	174.0	112.7	44.7	1.2	114	10	2	3
	178.0	113.9	41.3	1.2	114	9	2	3
	182.0	115.1	37.8	0.9	124	18	2	3
26.8	38.0	260.0	16.0	1.3	19	132	2	1
27.4	123.0	0.0	90.0	1.0	11	178	353	1
	123.0	0.0	90.0	0.9	18	6	244	2
	123.0	0.0	90.0	1.0	11	179	150	3
27.5	156.0	110.2	60.9	1.5	161	63	1	3
28.0	2.0	242.7	- 10.8	1.3	47	177	2	2
	4.0	243.8	- 9.4	1.2	59	7	2	2
	6.0	244.9	- 8.0	1.3	38	165	1	2
	8.0	245.9	- 6.6	1.6	85	30	2	2
	10.0	247.0	- 5.2	1.7	37	162	2	2
	12.0	247.9	- 3.7	0.8	90	34	2	2
	14.0	248.9	- 2.2	2.1	44	167	2	2
	16.0	249.9	- 0.8	2.0	91	33	2	2
	18.0	250.8	0.8	0.2	78	19	2	2
	20.0	251.7	2.3	2.1	125	65	2	2
	22.0	252.6	3.8	0.6	98	37	2	2
	24.0	253.4	5.4	0.6	99	37	2	2
	26.0	254.2	6.9	0.5	178	116	2	2
	28.0	255.0	8.5	0.7	31	148	2	2
	30.0	255.8	10.1	1.6	36	152	2	2
	32.0	256.6	11.7	1.2	46	161	2	2
	34.0	257.4	13.3	0.6	28	142	2	2
	36.0	258.1	14.9	1.3	26	140	2	2
	38.0	258.8	16.5	0.8	13	125	2	2
	40.0	259.5	18.2	1.5	45	157	2	2
	44.0	260.9	21.4	1.2	49	160	2	2
	48.0	262.2	24.8	0.6	57	166	2	2
	52.0	263.4	28.1	1.2	39	147	2	2
	56.0	264.6	31.5	1.2	39	145	2	2
	60.0	265.8	34.9	1.1	35	140	2	2
	64.0	266.9	38.3	1.1	59	163	2	2
	68.0	268.0	41.7	0.7	59	162	2	2
	72.0	269.0	45.2	0.2	45	147	2	2
	76.0	270.0	48.7	0.4	7	108	2	2
	80.0	271.0	52.1	0.8	168	88	2	2
	84.0	272.0	55.6	0.3	16	114	2	2
	88.0	272.8	59.1	0.9	8	106	2	2
	92.0	273.7	62.6	0.9	46	142	2	3
	96.0	274.5	66.1	0.3	165	80	2	3
	100.0	275.2	69.7	0.7	17	111	2	3
	104.0	275.8	73.2	0.4	155	68	2	3
	108.0	276.2	76.7	0.3	0	91	2	3
	112.0	276.2	80.3	0.6	15	106	2	3
	116.0	275.1	83.8	1.0	1	95	2	3
	120.0	268.8	87.3	1.3	0	102	2	3
	124.0	136.6	88.9	1.5	90	146	1	3
	128.0	111.1	85.5	1.3	27	110	2	3
	132.0	108.6	82.0	0.5	48	136	2	3
	136.0	108.3	78.5	0.9	176	86	2	3
	140.0	108.5	75.0	1.2	4	93	2	3
	144.0	109.0	71.4	0.7	12	99	2	3
	148.0	109.7	67.9	1.0	178	83	2	3
	152.0	110.4	64.4	1.3	165	70	2	3
	156.0	111.2	60.9	0.9	166	69	1	3
	160.0	112.1	57.4	0.5	1	83	2	3
	164.0	113.0	53.9	0.6	24	105	2	3
	168.0	114.0	50.4	3.0	78	158	2	3
28.3	42.0	260.0	20.0	1.7	8	119	2	1
28.5	36.0	257.6	15.0	0.3	61	174	2	2
28.6	19.0	250.8	1.8	1.0	115	55	1	2
28.7	32.0	256.0	12.0	1.3	14	129	2	1
29.4	123.0	195.0	88.0	1.1	5	3	18	3
29.7	46.4	260.0	24.0	0.7	14	123	2	1
30.0	0.0	240.0	- 10.9	0.7	64	15	2	2
	4.0	242.2	- 8.2	1.5	79	27	2	2
	8.0	244.3	- 5.4	0.4	18	144	2	2
	12.0	246.3	- 2.6	0.3	123	67	4	2
	16.0	248.2	0.3	1.7	78	20	4	2
	20.0	249.9	3.3	1.6	119	59	2	2
	24.0	251.6	6.3	1.3	6	124	2	2
	28.0	253.2	9.4	1.0	27	143	2	2
	32.0	254.7	12.5	1.3	60	174	2	2
	36.0	256.2	15.7	0.7	35	148	2	2
	40.0	257.6	18.9	0.8	102	34	2	2
	42.0	258.2	20.5	0.3	28	139	2	2
	46.0	259.5	23.8	0.9	17	126	2	2
	50.0	260.7	27.1	0.6	12	119	2	2
	54.0	261.8	30.4	0.4	18	124	2	2
	58.0	262.9	33.7	0.7	29	134	2	2
	62.0	263.9	37.1	0.9	39	142	2	2
	66.0	264.9	40.5	1.0	43	144	2	2
	70.0	265.8	43.9	1.1	50	150	2	2
	74.0	266.7	47.3	1.0	50	149	2	2
	78.0	267.4	50.7	0.6	69	166	2	2
	82.0	268.1	54.1	0.2	51	148	2	2
	86.0	268.7	57.6	0.4	39	133	2	2
	170.0	117.5	49.0	3.0	109	11	2	3
	174.0	118.3	45.6	1.1	154	54	2	3
	178.0	119.1	42.2	1.1	15	94	2	3
	182.0	120.1	38.8	0.4	0	77	2	3
30.2	165.3	117.0	53.0	1.3	0	83	1	1
30.3	36.0	256.0	16.0	1.0	34	147	2	1
30.8	209.0	128.8	16.7	0.4	38	105	1	2
31.0	51.0	260.0	28.0	1.0	21	127	1	1
31.3	33.0	254.0	14.0	1.7	19	133	1	1
31.4	123.0	195.0	86.0	0.9	21	18	20	3
31.8	40.6	256.0	20.0	0.4	161	92	2	1
32.0	0.0	238.4	- 9.6	0.8	72	23	2	2
	2.0	239.5	- 8.3	1.2	70	20	2	2
	4.0	240.6	- 7.0	1.5	76	24	2	2
	6.0	241.7	- 5.6	1.2	88	35	2	2
	8.0	242.7	- 4.3	1.4	113	59	2	2
	10.0	243.7	- 2.9	0.3	2	127	2	2
	12.0	244.6	- 1.5	1.1	106	50	2	2
	14.0	245.6	- 0.1	1.8	73	16	2	2
	16.0	246.5	1.4	0.9	82	24	3	2
	18.0	247.4	2.8	2.0	96	37	2	2
	20.0	248.2	4.3	2.5	117	57	3	2
	22.0	249.0	5.8	1.5	179	117	2	2
	24.0	249.9	7.2	0.5	137	75	2	2
	26.0	250.6	8.8	1.2	6	123	2	2
	28.0	251.4	10.3	1.2	47	163	3	2
	30.0	252.2	11.8	1.0	33	148	2	2
	32.0	252.9	13.3	0.8	55	169	2	2
	36.0	254.3	16.5	0.4	137	69	2	2
	36.0	254.3	16.5	0.5	71	3	1	2
	38.0	254.9	18.0	0.2	108	40	1	2
	40.0	255.6	19.6	0.6	136	66	2	2
	44.0	256.8	22.8	0.9	54	163	4	2
	48.0	258.0	26.0	1.5	48	155	2	2
	52.0	259.1	29.3	1.6	43	149	2	2
	56.0	260.1	32.5	1.1	36	140	2	2
	60.0	261.0	35.9	1.1	59	161	2	2
	64.0	261.9	39.2	1.0	58	159	2	2
	68.0	262.7	42.5	1.1	68	167	2	2
	72.0	263.4	45.9	0.3	84	2	2	2
	76.0	264.0	49.2	0.3	127	43	2	2
	80.0	264.6	52.6	0.4	39	133	2	2
	84.0	264.9	56.0	0.2	57	149	2	2
	88.0	265.0	59.4	0.2	133	44	2	2
	92.0	265.0	62.8	1.1	178	90	2	3
	96.0	264.6	66.2	0.4	2	96	2	3
	100.0	263.7	69.5	1.1	13	110	2	3
	104.0	262.1	72.9	0.9	155	76	2	3
	108.0	259.2	76.2	1.0	179	105	2	3
	112.0	253.9	79.4	0.7	171	104	2	3
	116.0	243.5	82.4	1.0	127	72	2	3
	120.0	221.1	84.7	1.0	82	51	2	3
	124.0	181.8	85.3	1.8	178	9	2	3
	128.0	150.1	83.7	1.3	82	126	2	3
	132.0	134.9	80.9	1.2	70	132	2	3
	136.0	127.6	77.8	0.8	34	105	2	3
	140.0	123.7	74.6	0.9	9	86	2	3
	144.0	121.5	71.2	1.2	13	94	2	3
	148.0	120.3	67.9	1.0	7	92	2	3
	152.0	119.7	64.5	0.3	14	101	2	3
	156.0	119.5	61.1	0.8	139	49	2	3
	160.0	119.5	57.7	0.9	177	86	2	3
	164.0	119.8	54.3	0.5	152	59	2	3
	168.0	120.2	50.9	2.7	105	10	2	3
	172.0	120.8	47.6	2.1	131	35	2	3
	176.0	121.4	44.2	1.0	124	25	2	3
	180.0	122.2	40.8	0.3	140	40	2	3
	184.0	123.0	37.5	0.7	131	29	2	3
	358.0	237.3	- 11.8	1.4	45	177	2	2
33.0	32.3	252.0	14.0	2.1	11	125	1	1
	45.0	256.0	24.0	0.9	55	163	2	1
33.3	141.3	127.3	73.2	0.9	14	89	1	3
34.0	0.0	236.9	- 8.2	0.6	81	33	2	2
	4.0	239.0	- 5.7	0.9	84	33	2	2
	4.0	239.0	- 5.7	0.7	101	49	1	2
	8.0	241.1	- 3.1	1.8	90	36	2	2
	12.0	243.0	- 0.4	0.7	141	85	2	2
	16.0	244.8	2.4	0.3	107	49	2	2
	20.0	246.5	5.3	1.2	109	49	2	2
	22.0	247.3	6.7	0.6	14	132	2	2
	24.0	248.1	8.2	0.5	63	1	2	2
	26.0	248.8	9.7	1.1	46	163	2	2
	30.0	250.3	12.6	0.9	54	169	2	2
	32.0	251.0	14.0	2.0	7	121	1	1
	32.0	251.0	14.2	0.3	58	171	2	2
	34.0	251.7	15.7	0.6	158	91	2	2
	36.0	252.3	17.2	0.9	19	131	2	2
	38.0	253.0	18.8	0.3	98	29	2	2
	40.0	253.6	20.3	0.6	121	51	2	2
	42.0	254.2	21.9	0.8	40	149	2	2
	46.0	255.3	25.0	1.0	32	139	2	2
	50.0	256.4	28.2	0.9	39	145	2	2
	54.0	257.3	31.4	0.9	41	144	2	2
	58.0	258.2	34.6	0.2	24	126	2	2
	62.0	259.0	37.9	0.3	95	15	2	2
	66.0	259.7	41.2	0.8	37	135	2	2
	70.0	260.3	44.5	0.5	55	152	2	2
	74.0	260.8	47.8	0.5	71	166	2	2
	78.0	261.1	51.1	0.6	46	138	2	2
	82.0	261.3	54.4	1.4	43	134	2	2
	86.0	261.2	57.7	0.1	66	158	2	2
34.7	74.0	259.8	47.8	0.4	77	171	1	2
35.3	39.0	252.0	20.0	0.7	41	151	2	1
35.4	122.5	195.0	82.0	0.7	4	1	18	3
35.7	129.6	160.0	80.0	0.8	103	139	2	1
35.8	31.0	249.0	14.0	1.8	11	125	1	1
36.0	0.0	235.4	- 6.9	1.1	52	3	2	2
	2.0	236.4	- 5.7	1.0	23	153	2	2
	4.0	237.5	- 4.5	1.7	53	2	2	2
	6.0	238.5	- 3.2	1.0	36	164	2	2
	8.0	239.4	- 1.9	1.2	142	89	3	2
	10.0	240.4	- 0.6	1.4	16	141	2	2
	12.0	241.3	0.8	0.9	124	68	2	2
	14.0	242.2	2.1	0.8	158	101	2	2
	16.0	243.1	3.5	2.2	123	65	2	2
	18.0	243.9	4.9	0.7	163	104	2	2
	20.0	244.7	6.3	0.4	91	30	2	2
	22.0	245.5	7.7	1.1	28	146	2	2
	24.0	246.3	9.1	1.5	88	26	2	2
	26.0	247.0	10.5	0.6	52	169	2	2
	28.0	247.7	12.0	1.2	63	178	2	2
	30.0	248.4	13.5	0.3	55	169	2	2

TABLE 1 *(continued)*

LAT	LONG	R.A.	DECL	INT	GAL	EQ	N	PER
36.0	32.0	249.1	15.0	0.3	142	75	2	2
	34.0	249.8	16.4	0.2	172	104	2	2
	38.0	251.0	19.5	0.2	155	85	2	2
	40.0	251.6	21.0	0.6	21	131	1	2
	44.0	252.7	24.0	1.0	47	154	2	2
	48.0	253.7	27.1	0.9	64	169	2	2
	52.0	254.6	30.3	2.4	57	161	2	2
	56.0	255.4	33.4	1.2	68	169	2	2
	60.0	256.2	36.6	1.1	52	152	3	2
	64.0	256.8	39.8	0.5	111	29	2	2
	68.0	257.3	43.0	0.3	101	16	2	2
	72.0	257.7	46.3	0.4	143	57	2	2
	76.0	257.9	49.5	0.2	135	46	2	2
	80.0	257.9	52.7	1.1	96	7	2	2
	84.0	257.7	56.0	0.8	77	171	2	2
	88.0	257.2	59.2	0.2	173	89	2	2
	92.0	256.3	62.4	0.5	179	99	2	3
	96.0	254.9	65.6	1.8	55	158	2	3
	100.0	252.7	68.7	1.5	21	128	2	3
	104.0	249.4	71.7	1.0	173	106	3	3
	108.0	244.5	74.6	1.2	145	84	2	3
	112.0	236.9	77.3	0.8	131	80	2	3
	116.0	225.2	79.6	1.1	86	50	2	3
	120.0	208.0	81.0	1.2	35	18	2	3
	124.0	186.9	81.4	0.7	152	157	2	3
	128.0	167.2	80.4	0.8	112	139	2	3
	136.0	143.4	76.0	1.1	47	102	2	3
	140.0	137.3	73.2	1.1	46	110	2	3
	144.0	133.3	70.2	0.5	39	109	2	3
	148.0	130.6	67.1	1.4	145	40	2	3
	152.0	128.8	64.0	1.5	23	102	2	3
	156.0	127.7	60.8	0.8	135	37	2	3
	160.0	127.0	57.6	2.5	154	59	2	3
	164.0	126.7	54.4	1.4	148	56	2	3
	168.0	126.6	51.1	2.8	99	9	2	3
	172.0	126.7	47.9	1.4	71	159	1	3
	176.0	127.0	44.7	1.6	47	133	2	3
	180.0	127.4	41.4	1.0	112	15	2	3
	184.0	128.0	38.2	0.6	43	124	2	3
	194.4	130.0	30.0	0.8	156	52	71	1
	354.0	232.0	- 10.5	2.7	46	1	2	2
	356.0	233.2	- 9.3	1.3	48	2	2	2
	358.0	234.3	- 8.1	2.2	47	160	2	2
36.5	27.0	247.0	11.5	0.6	66	2	1	2
36.6	43.7	252.0	24.0	1.3	12	119	2	1
36.7	26.0	246.4	10.7	1.8	26	142	1	2
37.0	125.7	180.0	80.0	0.4	146	160	2	1
37.2	56.0	254.1	33.8	0.9	124	45	1	2
37.3	121.3	200.0	80.0	0.7	5	176	2	1
37.5	30.0	247.0	14.0	1.7	16	130	1	1
37.7	48.5	252.0	28.0	0.8	36	140	2	1
38.0	0.0	233.9	- 5.6	1.3	71	22	2	2
	4.0	235.9	- 3.2	1.8	71	20	2	2
	8.0	237.8	- 0.7	0.3	127	74	2	2
	12.0	239.7	1.9	1.4	130	74	2	2
	16.0	241.4	4.5	1.4	131	73	2	2
	20.0	243.0	7.2	0.9	66	5	2	2
	24.0	244.5	10.0	1.6	67	4	2	2
	28.0	245.9	12.9	1.3	84	19	2	2
	32.0	247.2	15.7	1.1	92	25	2	2
	36.0	248.4	18.7	0.9	71	2	2	2
	40.0	249.5	21.6	0.1	131	60	2	2
	44.0	250.6	24.6	0.4	80	7	2	2
	48.0	251.5	27.7	0.3	23	127	2	2
	52.0	252.3	30.7	0.7	66	169	3	2
	56.0	253.1	33.8	0.3	37	137	2	2
	60.0	253.7	36.9	0.6	46	145	2	2
	64.0	254.2	40.1	0.2	125	41	2	2
	68.0	254.6	43.2	0.3	109	23	2	2
	72.0	254.8	46.4	0.4	86	178	2	2
	76.0	254.8	49.5	0.5	57	148	2	2
	80.0	254.6	52.7	0.5	84	177	2	2
	84.0	254.2	55.8	0.4	29	126	2	2
	88.0	253.4	58.9	0.5	107	27	2	2
	352.0	229.4	- 10.1	0.3	31	168	2	2
	356.0	231.7	- 7.9	0.7	162	116	2	2
38.4	29.4	246.0	14.0	1.7	17	131	1	1
38.5	213.6	137.7	16.2	0.3	61	129	1	2
38.7	125.4	182.9	78.5	1.3	145	155	2	3
39.0	37.4	248.0	20.0	0.2	72	2	2	1
39.3	29.0	245.0	14.0	2.0	19	133	1	1
39.7	133.4	160.0	75.0	0.5	91	129	2	1
40.0	0.0	232.4	- 4.3	1.8	48	0	2	2
	4.0	234.4	- 1.9	0.7	70	19	2	2
	6.0	235.3	- 0.7	0.6	20	148	2	2
	8.0	236.2	0.5	1.4	0	126	2	2
	10.0	237.1	1.7	1.1	10	136	2	2
	12.0	238.0	3.0	1.2	12	136	2	2
	14.0	238.8	4.3	0.4	39	162	2	2
	16.0	239.7	5.6	0.8	161	103	2	2
	18.0	240.4	6.9	1.0	166	106	2	2
	20.0	241.2	8.2	1.8	10	129	2	2
	22.0	241.9	9.6	2.1	32	150	2	2
	24.0	242.7	10.9	2.2	43	160	2	2
	26.0	243.3	12.3	1.6	48	163	2	2
	28.0	244.0	13.7	2.0	42	156	2	2
	30.0	244.7	15.1	1.1	97	30	2	2
	32.0	245.3	16.5	0.7	7	119	1	2
	34.0	245.9	17.9	0.4	173	104	2	2
	36.0	246.4	19.4	0.6	19	129	2	2
	38.0	247.0	20.8	0.2	160	89	2	2
	40.0	247.5	22.3	1.2	24	132	2	2
	42.3	248.0	24.0	1.2	19	126	2	1
	44.0	248.4	25.2	0.5	37	142	2	2
	48.0	249.3	28.1	0.3	75	179	2	2
	52.0	250.1	31.1	1.2	64	165	2	2
	56.0	250.7	34.2	1.9	58	157	2	2
	60.0	251.2	37.2	0.1	45	142	2	2
	64.0	251.6	40.3	0.4	84	178	2	2
	68.0	251.8	43.3	1.3	50	142	2	2
	72.0	251.9	46.4	1.1	56	146	1	2
	76.0	251.7	49.4	0.8	44	137	2	2
	80.0	251.3	52.5	1.1	25	121	3	2
	84.0	250.6	55.5	0.6	87	6	2	2
	88.0	249.6	58.5	2.0	58	161	2	2
40.0	92.0	248.0	61.5	0.3	129	56	2	3
	96.0	245.8	64.4	0.9	150	81	2	3
	100.0	242.8	67.2	0.8	161	98	2	3
	104.0	238.7	69.9	0.9	119	62	2	3
	108.0	233.0	72.3	1.6	103	54	2	3
	112.0	225.3	74.5	1.2	91	52	2	3
	116.0	215.2	76.1	1.6	60	33	2	3
	120.0	202.6	77.2	1.2	25	13	2	3
	124.0	188.7	77.4	1.5	168	172	2	3
	128.0	175.3	76.7	0.5	136	155	2	3
	132.0	163.9	75.4	1.3	106	139	2	3
	136.0	155.1	73.4	1.0	63	108	1	3
	140.0	148.5	71.1	0.6	52	105	2	3
	144.0	143.6	68.6	0.8	15	76	2	3
	148.0	140.1	65.8	0.9	167	53	2	3
	152.0	137.5	63.0	*0.4	107	178	2	3
	156.0	135.6	60.0	1.3	131	27	1	3
	160.0	134.3	57.0	1.8	9	88	2	3
	164.0	133.5	54.0	0.9	114	17	2	3
	168.0	132.9	51.0	0.7	170	75	2	3
	172.0	132.7	47.9	0.3	44	132	2	3
	176.0	132.6	44.8	0.9	87	176	2	3
	180.0	132.8	41.8	0.8	48	135	2	3
	184.0	133.1	38.7	0.7	111	15	2	3
	350.0	226.9	- 9.7	1.0	33	172	2	2
	352.0	228.0	- 8.7	1.0	59	17	2	2
	354.0	229.2	- 7.6	1.2	44	0	2	2
	356.0	230.3	- 6.5	0.6	9	144	2	2
	358.0	231.3	- 5.4	1.3	21	154	2	2
41.0	28.0	243.0	14.0	2.0	17	132	1	1
	47.4	248.0	28.0	0.6	79	2	2	1
41.7	26.7	242.1	13.5	1.7	63	178	1	2
42.0	0.0	230.9	- 2.9	0.6	176	127	2	2
	4.0	232.8	- 0.7	0.8	127	76	2	2
	8.0	234.6	1.7	1.7	140	87	2	2
	12.0	236.3	4.1	1.2	171	115	2	2
	16.0	237.9	6.6	0.7	166	107	2	2
	20.0	239.4	9.2	1.3	19	138	2	2
	24.0	240.8	11.8	1.3	63	179	2	2
	27.3	242.0	14.0	1.5	17	132	1	1
	28.0	242.1	14.5	1.7	68	2	2	2
	32.0	243.3	17.2	0.7	62	174	2	2
	36.0	244.4	20.0	0.4	29	138	2	2
	40.0	245.4	22.9	0.1	11	118	2	2
	44.0	246.3	25.7	0.5	137	62	2	2
	48.0	247.1	28.6	1.4	42	145	2	2
	52.0	247.8	31.5	1.2	51	151	2	2
	56.0	248.3	34.5	1.0	43	140	2	2
	60.0	248.7	37.4	0.4	50	145	2	2
	64.0	249.0	40.4	0.8	61	153	2	2
	68.0	249.1	43.3	0.9	38	128	2	2
	72.0	249.0	46.3	0.8	63	155	1	2
	76.0	248.7	49.3	0.1	72	167	2	2
	80.0	248.1	52.2	0.8	63	162	3	2
	84.0	247.2	55.2	1.1	43	145	2	2
	88.0	245.9	58.0	1.2	38	144	2	2
	127.3	180.0	75.0	0.1	144	158	2	1
	184.0	135.6	38.9	0.3	100	6	2	3
	348.0	224.4	- 9.1	2.5	149	110	2	2
	352.0	226.7	- 7.2	0.3	176	134	2	2
	356.0	228.8	- 5.1	1.2	108	62	2	2
42.2	120.3	200.0	75.0	0.4	42	33	2	1
42.4	36.0	244.0	20.0	1.7	8	117	3	1
43.4	122.0	195.0	74.0	0.6	32	29	18	3
43.6	41.0	244.0	24.0	1.9	168	94	3	1
	137.6	160.0	70.0	0.4	75	115	2	1
43.7	26.0	240.0	14.0	1.9	20	134	1	1
44.0	0.0	229.4	- 1.6	0.6	62	13	2	2
	8.0	233.0	2.9	0.8	20	146	2	2
	12.0	234.7	5.2	1.6	29	152	2	2
	16.0	236.2	7.6	1.9	164	105	1	2
	20.0	237.7	10.2	0.8	13	132	2	2
	24.0	239.0	12.7	1.5	38	154	2	2
	28.0	240.2	15.3	0.9	45	158	2	2
	32.0	241.4	18.0	1.3	31	142	2	2
	36.0	242.4	20.7	1.8	158	87	2	2
	40.0	243.3	23.4	2.0	147	73	2	2
	44.0	244.2	26.2	1.1	176	100	2	2
	48.0	244.9	29.0	1.4	7	108	2	2
	52.0	245.4	31.8	0.9	66	165	2	2
	56.0	245.9	34.7	1.2	59	155	2	2
	60.0	246.2	37.6	0.3	9	103	2	2
	64.0	246.4	40.4	1.9	78	169	2	2
	68.0	246.3	43.3	1.0	70	162	2	2
	72.0	246.1	46.2	1.4	66	160	2	2
	80.0	244.9	51.9	1.5	37	138	2	2
	84.0	243.8	54.7	1.9	34	139	2	2
	88.0	242.3	57.4	1.7	34	143	2	2
	92.0	240.3	60.1	1.8	143	76	2	3
	96.0	237.7	62.7	1.4	138	77	2	3
	100.0	234.3	65.2	1.7	111	55	2	3
	104.0	229.9	67.5	0.6	106	58	2	3
	108.0	224.3	69.5	0.8	90	49	2	3
	112.0	217.4	71.2	1.1	65	34	2	3
	116.0	209.2	72.5	1.0	53	32	2	3
	120.0	199.8	73.2	0.3	39	30	2	3
	124.0	189.7	73.4	0.3	0	3	2	3
	128.0	179.9	72.9	0.6	110	125	1	3
	132.0	171.0	71.9	0.8	85	112	2	3
	140.0	157.2	68.5	0.6	58	103	2	3
	144.0	152.3	66.3	1.0	15	68	2	3
	148.0	148.4	64.0	0.8	123	1	2	3
	152.0	145.4	61.4	0.2	162	46	2	3
	156.0	143.1	58.8	0.4	143	32	2	3
	160.0	141.4	56.1	1.1	140	34	2	3
	164.0	140.1	53.3	0.7	112	9	2	3
	168.0	139.2	50.5	0.6	92	173	2	3
	172.0	138.6	47.6	0.8	92	175	2	3
	176.0	138.3	44.8	2.2	74	160	2	3
	180.0	138.1	41.9	1.1	46	135	2	3
	344.0	220.8	- 9.3	0.9	155	119	2	2
	348.0	223.1	- 7.6	1.1	162	123	2	2
	352.0	225.3	- 5.7	0.6	25	163	2	2
	356.0	227.4	- 3.7	1.1	41	176	2	2
44.3	120.0	199.9	72.9	0.1	146	136	1	3

TABLE 1 *(continued)*

LAT.	LONG	R.A.	DECL	INT	GAL	EQ	N	PER
44.6	25.6	239.0	14.0	2.2	24	139	1	1
	46.4	244.0	28.0	1.9	20	122	3	1
44.8	100.3	232.4	64.9	1.3	50	176	1	3
45.2	28.5	239.3	16.1	1.0	72	5	1	2
45.5	80.0	242.6	51.5	1.6	31	134	1	2
	133.7	170.0	70.0	0.6	69	98	2	1
46.0	0.0	227.9	- 0.3	0.8	42	174	2	2
	4.0	229.7	1.8	0.6	76	25	2	2
	8.0	231.4	4.0	0.2	143	89	2	2
	12.0	233.0	6.3	0.1	147	90	2	2
	16.0	234.5	8.7	1.6	81	22	2	2
	20.0	235.9	11.1	0.4	40	158	2	2
	24.0	237.1	13.6	1.9	48	164	2	2
	28.0	238.3	16.1	0.9	56	169	2	2
	32.0	239.4	18.7	0.3	66	176	2	2
	34.0	240.0	20.0	0.8	160	89	5	1
	36.0	240.4	21.3	0.9	126	54	2	2
	40.0	241.2	24.0	0.5	124	49	2	2
	44.0	242.0	26.7	1.9	22	125	2	2
	48.0	242.6	29.4	0.7	167	87	2	2
	52.0	243.1	32.1	1.2	51	148	2	2
	56.0	243.5	34.9	0.9	56	151	2	2
	60.0	243.7	37.7	0.7	101	13	2	2
	64.0	243.7	40.4	2.1	61	151	2	2
	68.0	243.6	43.2	1.6	48	142	2	2
	72.0	243.2	46.0	0.6	51	148	2	2
	76.0	242.6	48.7	0.9	54	154	2	2
	80.0	241.7	51.5	1.0	40	144	2	2
	84.0	240.5	54.1	0.6	3	110	2	2
	88.0	238.9	56.7	0.4	51	163	2	2
	340.0	217.3	- 9.3	1.6	110	77	2	2
	344.0	219.6	- 7.7	1.8	117	81	2	2
	348.0	221.8	- 6.0	1.1	128	89	2	2
	352.0	224.0	- 4.2	0.4	121	79	2	2
	356.0	226.0	- 2.3	0.2	139	94	2	2
46.4	24.5	237.0	14.0	2.6	19	134	1	1
46.8	129.0	180.0	70.0	0.9	55	71	2	1
47.0	39.6	240.0	24.0	0.7	145	70	5	1
47.2	119.0	200.0	70.0	0.7	143	133	2	1
	142.4	160.0	65.0	0.6	178	42	2	1
47.4	124.0	190.0	70.0	0.2	36	39	2	1
47.6	42.5	240.0	26.0	1.1	15	118	1	1
48.0	8.0	229.8	5.2	1.0	179	125	2	2
	12.0	231.3	7.4	1.2	163	106	2	2
	16.0	232.7	9.7	0.9	178	118	2	2
	20.0	234.1	12.0	1.6	34	152	2	2
	23.0	235.0	14.0	2.2	21	137	1	1
	24.0	235.3	14.4	2.0	31	146	2	2
	28.0	236.4	16.9	1.7	43	155	2	2
	32.0	237.4	19.4	1.8	142	72	2	2
	36.0	238.3	21.9	1.3	117	44	2	2
	40.0	239.1	24.5	0.9	146	71	2	2
	44.0	239.8	27.1	0.2	154	76	2	2
	45.4	240.0	28.0	0.8	170	91	5	1
	48.0	240.3	29.7	0.3	38	137	2	2
	52.0	240.8	32.4	1.1	89	5	2	2
	56.0	241.0	35.0	1.2	90	3	2	2
	60.0	241.2	37.7	1.4	74	164	2	2
	64.0	241.1	40.4	2.0	15	107	2	2
	68.0	240.9	43.1	1.9	10	106	2	2
	72.0	240.4	45.7	0.7	8	107	2	2
	76.0	239.7	48.3	0.6	107	29	2	2
	80.0	238.7	50.9	0.6	102	28	2	2
	84.0	237.3	53.5	0.2	93	23	2	2
	88.0	235.5	56.0	0.3	65	0	2	2
	92.0	233.3	58.3	1.3	140	80	2	3
	96.0	230.5	60.6	0.9	137	82	2	3
	100.0	227.0	62.7	1.8	123	74	2	3
	104.0	222.8	64.7	2.2	94	52	2	3
	108.0	217.8	66.3	2.3	96	61	2	3
	112.0	211.9	67.7	1.4	88	62	2	3
	116.0	205.2	68.7	0.3	116	99	2	3
	132.0	175.9	68.2	0.4	165	7	2	3
	136.0	169.5	67.1	0.9	28	59	4	3
	140.0	164.1	65.5	0.1	65	104	4	3
	144.0	159.5	63.7	0.5	17	63	2	3
	148.0	155.6	61.7	1.0	32	84	3	3
	152.0	152.5	59.5	1.3	36	94	2	3
	156.0	150.0	57.2	2.0	20	83	2	3
	160.0	148.0	54.7	0.2	132	20	3	3
	164.0	146.5	52.2	1.1	168	60	2	3
	168.0	145.3	49.7	0.8	22	98	2	3
	172.0	144.4	47.0	1.1	64	144	2	3
	176.0	143.9	44.4	1.3	87	170	2	3
	180.0	143.5	41.7	0.3	60	146	2	3
	184.0	143.4	39.1	0.5	49	139	2	3
	336.0	213.9	- 9.0	0.4	42	13	2	2
	340.0	216.2	- 7.6	0.9	26	173	2	2
	344.0	218.5	- 6.1	0.5	176	140	2	2
	348.0	220.6	- 4.5	0.7	2	143	2	2
48.4	48.0	240.0	30.0	0.7	9	107	1	1
48.5	92.4	232.3	58.3	1.9	137	77	1	3
48.8	54.4	240.0	34.0	0.2	113	27	1	1
49.0	22.6	234.0	14.0	2.2	17	132	1	1
	332.6	211.5	- 9.3	1.1	11	165	2	2
49.3	355.0	223.1	- 0.5	0.5	120	76	2	2
49.8	16.0	231.2	10.6	0.5	118	58	2	2
	137.4	170.0	65.0	0.2	34	66	2	1
50.0	0.0	224.9	2.4	0.7	164	116	4	2
	4.0	226.6	4.4	0.5	21	150	4	2
	8.0	228.1	6.4	0.2	68	14	2	2
	12.0	229.6	8.5	0.6	8	131	2	2
	16.0	231.0	10.7	0.5	177	117	2	2
	20.0	232.2	13.0	0.9	69	6	2	2
	24.0	233.4	15.3	0.9	35	149	2	2
	28.0	234.5	17.6	1.9	43	154	2	2
	32.0	235.4	20.0	1.1	90	19	2	2
	36.0	236.3	22.5	1.1	122	48	2	2
	40.0	237.0	25.0	1.2	155	79	1	2
	44.0	237.6	27.5	0.6	171	92	2	2
	48.0	238.1	30.0	1.2	41	139	2	2
	52.0	238.4	32.6	1.1	9	104	2	2
	56.0	238.6	35.1	1.1	21	113	2	2
	60.0	238.6	37.7	0.9	35	126	2	2
	64.0	238.5	40.3	1.6	142	56	2	2

LAT	LONG	R.A.	DECL	INT	GAL	EQ	N	PER
50.0	68.0	238.1	42.8	1.0	172	89	2	2
	72.0	237.6	45.4	1.1	125	46	2	2
	76.0	236.8	47.9	1.0	105	30	2	2
	80.0	235.6	50.3	0.3	58	166	2	2
	84.0	234.2	52.8	0.6	90	22	2	2
	88.0	232.4	55.1	1.2	56	173	2	2
	332.0	210.6	- 8.4	1.1	82	56	2	2
	336.0	212.9	- 7.2	0.8	96	67	1	2
	340.0	215.1	- 5.9	0.5	79	47	2	2
	344.0	217.2	- 4.5	0.5	93	57	2	2
	348.0	219.3	- 2.9	0.6	76	37	2	2
	352.0	221.3	- 1.3	0.4	161	119	4	2
	356.0	223.1	0.5	0.3	146	101	2	2
50.7	21.0	232.0	14.0	1.6	11	127	1	1
	148.0	160.0	60.0	1.7	174	42	2	1
51.6	131.0	180.0	65.0	1.1	56	74	2	1
52.0	0.0	223.4	3.7	0.6	90	41	2	2
	4.0	225.0	5.6	1.0	98	47	2	2
	8.0	226.5	7.6	1.1	83	29	2	2
	12.0	227.9	9.6	0.4	38	161	2	2
	16.0	229.2	11.7	1.4	59	179	2	2
	20.0	230.4	13.9	0.4	99	36	2	2
	24.0	231.5	16.1	1.2	81	15	2	2
	28.0	232.5	18.4	1.3	52	163	2	2
	36.0	234.2	23.0	2.1	98	24	2	2
	40.0	234.8	25.4	1.2	101	24	2	2
	41.0	235.0	26.0	0.5	146	68	1	1
	44.0	235.4	27.8	1.4	78	178	2	2
	48.0	235.8	30.3	1.7	17	113	2	2
	52.0	236.0	32.7	1.3	11	105	2	2
	56.0	236.2	35.2	0.8	146	57	2	2
	60.0	236.1	37.7	1.2	149	61	2	2
	64.0	235.9	40.1	1.9	104	20	2	2
	68.0	235.5	42.5	1.2	97	16	2	2
	72.0	234.8	45.0	1.0	127	50	2	2
	76.0	233.9	47.3	0.3	89	16	2	2
	80.0	232.7	49.7	0.3	51	162	2	2
	84.0	231.2	52.0	0.2	76	11	2	2
	88.0	229.3	54.1	0.4	6	126	2	2
	92.0	227.0	56.2	1.2	156	101	2	3
	96.0	224.3	58.2	1.2	152	103	2	3
	100.0	221.0	60.0	0.3	123	79	2	3
	104.0	217.2	61.6	1.3	68	30	1	3
	108.0	212.8	63.0	2.0	44	14	2	3
	112.0	207.8	64.1	1.1	31	8	2	3
	116.0	202.4	64.9	1.4	120	106	1	3
	118.0	200.0	65.0	1.2	134	123	2	1
	128.0	184.9	65.1	1.6	77	87	2	3
	152.0	158.8	57.2	0.8	110	163	2	3
	156.0	156.3	55.2	2.8	127	5	2	3
	160.0	154.2	53.1	2.0	123	6	2	3
	164.0	152.5	50.8	1.1	149	36	2	3
	168.0	151.2	48.5	0.9	109	1	2	3
	172.0	150.1	46.2	0.4	128	23	2	3
	176.0	149.4	43.8	0.9	46	125	2	3
	180.0	148.8	41.3	1.4	41	124	2	3
	184.0	148.5	38.9	1.2	56	142	2	3
	340.0	214.1	- 4.2	0.6	69	36	2	2
	344.0	216.1	- 2.9	0.3	93	58	2	2
	348.0	218.1	- 1.4	0.7	86	47	2	2
	352.0	219.9	0.2	0.7	78	36	2	2
	356.0	221.7	1.9	0.8	72	27	2	2
52.3	103.6	217.2	61.2	2.0	80	42	1	3
	133.0	178.0	64.0	1.0	21	42	26	1
52.4	124.6	190.0	65.0	1.7	104	107	2	1
52.7	47.4	235.0	30.0	1.6	29	126	1	1
53.0	10.5	226.6	9.4	0.7	24	148	1	2
	54.0	235.0	34.0	2.6	176	88	1	1
53.6	14.5	227.4	11.7	1.3	25	146	1	2
53.8	154.0	160.0	55.0	2.0	166	39	3	1
54.0	0.0	221.9	5.1	0.2	44	175	2	2
	- 4.0	220.3	3.3	0.5	129	84	2	2
	4.0	223.4	6.9	0.7	82	31	2	2
	- 4.0	220.3	3.3	0.5	129	84	2	2
	4.0	223.4	6.9	0.7	82	31	2	2
	8.0	224.9	8.7	1.9	22	147	2	2
	12.0	226.2	10.7	2.0	7	129	2	2
	16.0	227.4	12.7	0.8	90	30	2	2
	20.0	228.6	14.8	0.6	75	12	2	2
	24.0	229.6	16.9	1.8	62	176	2	2
	28.0	230.5	19.1	2.7	60	170	2	2
	32.0	231.4	21.3	1.1	74	2	2	2
	36.0	232.1	23.6	0.8	107	31	2	2
	40.0	232.7	25.8	0.7	133	55	2	2
	44.0	233.1	28.2	1.5	39	138	2	2
	48.0	233.5	30.5	1.3	7	103	2	2
	52.0	233.7	32.8	0.2	171	83	2	2
	56.0	233.7	35.2	0.8	155	66	2	2
	60.0	233.6	37.5	0.6	154	68	2	2
	64.0	233.3	39.9	1.0	117	35	2	2
	69.0	232.6	42.8	1.1	86	8	2	2
	72.0	232.1	44.5	1.1	79	3	2	2
	76.0	231.1	46.7	0.7	70	178	2	2
	84.0	228.3	51.1	0.4	62	0	2	2
	88.0	226.4	53.1	0.8	10	132	2	2
	142.0	170.0	60.0	1.2	11	46	3	1
	332.0	208.9	- 4.8	0.2	88	63	2	2
	336.0	211.0	- 3.8	0.9	49	21	3	2
	340.0	213.0	- 2.6	1.0	29	177	2	2
	344.0	214.9	- 1.2	0.5	37	1	2	2
	348.0	216.8	0.2	0.8	23	164	2	2
	352.0	218.6	1.7	0.3	56	14	2	2
54.4	78.5	229.9	48.0	0.7	84	16	2	2
54.6	136.0	176.5	61.2	2.8	27	52	1	3
54.8	29.0	230.0	20.0	2.4	75	5	2	1
55.2	139.0	173.8	59.8	2.3	23	53	1	3
56.0	24.0	227.7	17.7	1.0	18	131	2	2
	28.0	228.6	19.8	1.7	28	138	2	2
	32.0	229.3	21.9	1.4	42	149	1	2
	36.0	230.0	24.0	0.5	73	177	2	1
	36.0	230.0	24.1	1.4	44	148	2	2
	40.0	230.5	26.2	1.6	54	155	2	2
	44.0	230.9	28.4	2.1	12	110	2	2
	48.0	231.2	30.7	1.6	158	72	2	2
	52.0	231.3	32.9	0.3	23	114	2	2
	56.0	231.3	35.1	0.9	46	138	2	2

TABLE 1 *(continued)*

LAT	LONG	R.A.	DECL	INT	GAL	EQ	N	PER
56.0	60.0	231.1	37.4	0.7	17	112	3	2
	64.0	230.7	39.6	0.4	163	82	3	2
	68.0	230.2	41.8	0.7	112	35	2	2
	72.0	229.4	43.9	1.0	73	0	2	2
	76.0	228.4	46.1	0.0	90	21	2	2
	80.0	227.1	48.1	0.2	53	168	2	2
	84.0	225.5	50.1	0.1	113	52	2	2
	88.0	223.7	52.0	0.6	166	110	2	2
	92.0	221.4	53.8	1.1	169	139	2	3
	96.0	218.9	55.5	2.5	135	90	2	3
	100.0	215.9	57.0	2.5	149	109	2	3
	104.0	212.5	58.3	1.4	92	59	2	3
	108.0	208.8	59.4	1.9	63	36	2	3
	112.0	204.7	60.3	1.8	17	177	2	3
	120.0	195.8	61.3	1.1	35	30	2	3
	128.0	186.5	61.2	2.4	88	97	2	3
	140.0	173.8	58.9	2.5	35	65	1	3
	144.0	170.2	57.7	1.2	24	61	2	3
	152.0	164.3	54.7	1.2	13	61	2	3
	156.0	161.9	52.9	0.2	77	131	2	3
	160.0	159.9	51.1	0.7	170	49	2	3
	164.0	158.2	49.1	1.2	117	0	2	3
	168.0	156.7	47.1	0.1	77	144	2	3
	172.0	155.6	45.0	1.0	70	142	2	3
	176.0	154.7	42.9	1.4	73	148	2	3
	180.0	154.1	40.7	1.4	59	139	2	3
	184.0	153.6	38.5	1.2	73	156	2	3
	332.0	208.0	- 3.0	0.8	65	40	2	2
	336.0	210.0	- 2.0	0.3	40	11	2	2
	340.0	211.9	- 0.9	0.2	3	151	2	2
56.3	134.0	180.0	60.0	0.9	46	66	3	1
56.4	39.4	230.0	26.0	1.8	64	165	1	1
56.7	43.0	230.0	28.0	1.7	175	93	2	1
	145.0	170.2	56.7	1.4	22	59	1	3
57.0	46.6	230.0	30.0	2.0	173	88	1	1
	54.0	230.0	34.0	2.1	20	111	1	1
	116.0	200.0	60.0	1.6	164	151	48	1
57.4	125.0	190.0	60.0	1.3	148	152	3	1
58.0	0.0	218.9	7.7	1.4	4	135	4	2
	4.0	220.3	9.3	1.1	171	120	4	2
	8.0	221.6	11.0	1.3	144	89	4	2
	12.0	222.7	12.8	0.7	129	70	7	2
	16.0	223.8	14.6	1.1	132	71	4	2
	20.0	224.8	16.5	1.0	140	76	4	2
	24.0	225.7	18.5	1.9	155	87	2	2
	28.0	226.5	20.4	1.7	5	114	2	2
	32.0	227.2	22.5	2.3	20	126	2	2
	36.0	227.8	24.5	1.9	14	117	2	2
	40.0	228.3	26.6	1.1	167	87	2	2
	44.0	228.6	28.7	0.7	14	111	2	2
	48.0	228.8	30.8	1.7	0	93	2	2
	52.0	228.9	32.9	2.8	170	80	2	2
	56.0	228.8	35.0	1.8	175	89	2	2
	60.0	228.6	37.2	1.8	178	95	2	2
	64.0	228.2	39.2	1.1	6	107	2	2
	68.0	227.6	41.3	0.7	148	72	2	2
	72.0	226.7	43.3	0.3	97	26	2	2
	76.0	225.7	45.3	0.1	124	57	2	2
	80.0	224.4	47.3	0.9	33	150	2	2
	84.0	222.9	49.1	1.1	28	149	2	2
	88.0	221.0	50.9	0.8	18	144	2	2
	147.0	170.0	55.0	0.8	51	90	3	1
	332.0	207.1	- 1.2	0.6	43	17	2	2
	336.0	209.0	- 0.3	0.3	21	172	2	2
	340.0	210.9	0.8	0.6	38	6	2	2
	344.0	212.6	2.0	0.6	28	172	4	2
	348.0	214.3	3.3	0.9	102	63	4	2
	352.0	215.9	4.7	0.3	103	61	4	2
	356.0	217.4	6.2	1.2	3	137	4	2
59.3	26.0	225.0	20.0	1.6	159	89	2	1
	120.0	195.0	58.0	1.7	2	177	17	3
60.0	0.0	217.4	9.0	2.2	175	126	2	2
	4.0	218.7	10.6	2.6	167	115	2	2
	8.0	219.9	12.2	2.9	147	92	2	2
	12.0	221.0	13.9	2.6	166	107	2	2
	16.0	222.0	15.6	4.1	176	114	2	2
	20.0	223.0	17.4	2.7	149	84	2	2
	24.0	223.8	19.2	1.1	132	64	2	2
	28.0	224.5	21.1	1.7	1	109	2	2
	32.0	225.2	23.0	1.0	172	98	2	2
	36.0	225.7	25.0	0.6	174	96	2	2
	40.0	226.1	26.9	0.6	158	77	2	2
	45.0	226.4	29.4	2.0	29	123	2	2
	50.0	226.5	31.9	2.6	21	111	2	2
	55.0	226.4	34.4	2.9	170	84	2	2
	60.0	226.1	36.9	2.1	178	96	2	2
	65.0	225.5	39.3	0.2	158	81	2	2
	70.0	224.6	41.7	1.1	97	25	2	2
	75.0	223.4	44.1	0.5	47	161	2	2
	80.0	221.8	46.3	1.2	41	160	2	2
	85.0	219.9	48.5	0.9	55	0	2	2
	88.0	218.6	49.7	0.2	169	117	2	3
	90.0	217.6	50.4	0.8	58	9	2	2
	96.0	214.2	52.6	0.3	137	95	2	3
	104.0	208.7	54.9	1.4	126	95	2	3
	112.0	202.2	56.5	1.4	70	52	2	3
	120.0	195.0	57.3	1.8	10	5	1	3
	152.0	169.1	51.9	0.3	76	121	2	3
	160.0	165.0	48.9	0.4	165	39	2	3
	168.0	162.0	45.4	0.7	97	161	2	3
	176.0	159.9	41.7	0.4	75	146	2	3
	184.0	158.6	37.9	1.2	64	144	2	3
	188.0	158.2	35.9	0.9	56	140	2	3
	332.0	206.3	0.6	1.5	53	27	2	2
	336.0	208.1	1.5	0.7	119	90	2	2
	340.0	209.8	2.5	0.5	99	67	2	2
	344.0	211.4	3.6	0.8	96	61	2	2
	348.0	213.0	4.9	1.2	81	42	2	2
	352.0	214.6	6.2	1.6	51	8	2	2
	356.0	216.0	7.6	1.3	5	139	2	2
60.3	120.0	195.0	57.0	1.1	164	159	1	3
60.4	34.0	225.0	24.0	1.2	8	112	2	1
60.5	162.0	165.0	47.9	0.3	11	66	1	3
60.8	38.0	225.0	26.0	1.3	89	10	1	1
61.0	42.0	225.0	28.0	0.9	38	134	2	1
61.0	138.0	180.0	55.0	0.6	121	144	4	1
61.2	54.0	225.0	34.0	3.7	175	89	1	1
61.3	46.0	225.0	30.0	2.9	46	139	1	1
61.8	114.0	200.0	55.0	0.9	42	28	3	1
62.0	0.0	215.8	10.3	2.5	124	75	2	2
	5.0	217.3	12.2	3.5	163	109	2	2
	10.0	218.7	14.1	3.6	8	130	2	2
	15.0	219.9	16.1	2.7	12	130	2	2
	20.0	221.0	18.2	3.0	28	143	2	2
	25.0	222.0	20.4	2.7	54	164	2	2
	30.0	222.8	22.6	1.9	34	140	2	2
	35.0	223.4	24.9	1.6	20	122	2	2
	40.0	223.9	27.2	1.5	21	119	2	2
	45.0	224.1	29.5	2.5	51	144	2	2
	50.0	224.2	31.9	2.1	23	114	2	2
	55.0	224.0	34.2	2.2	2	97	2	2
	60.0	223.6	36.6	0.9	5	105	2	2
	65.0	223.0	38.8	1.3	39	144	2	2
	70.0	222.1	41.1	1.5	126	56	2	2
	75.0	220.9	43.3	0.3	46	167	2	2
	80.0	219.3	45.3	0.7	50	170	3	2
	85.0	217.5	47.3	1.1	54	1	2	2
	90.0	215.2	49.1	0.8	70	23	2	2
	330.0	204.6	2.0	0.8	178	154	2	2
	335.0	206.7	3.0	1.7	176	148	2	2
	340.0	208.7	4.2	1.7	18	166	2	2
	345.0	210.7	5.5	0.6	131	94	2	2
	350.0	212.5	7.0	2.0	151	110	2	2
	355.0	214.2	8.6	1.1	5	141	2	2
62.3	126.0	190.0	55.0	0.8	150	155	3	1
63.3	180.0	163.4	39.1	1.1	72	145	1	3
63.4	8.0	217.0	14.0	5.2	5	129	37	1
	8.0	217.0	14.0	5.1	1	125	298	2
	8.0	217.0	14.0	4.7	179	123	248	3
63.6	23.0	220.0	20.0	1.1	53	164	2	1
64.0	0.0	214.3	11.6	3.7	131	82	2	2
	5.0	215.7	13.4	5.0	170	116	2	2
	10.0	217.0	15.2	3.9	13	136	2	2
	15.0	218.1	17.1	1.9	45	163	2	2
	20.0	219.1	19.0	0.8	60	174	2	2
	25.0	220.0	21.1	1.6	27	136	2	2
	30.0	220.7	23.2	2.7	48	154	2	2
	35.0	221.2	25.3	1.2	50	151	2	2
	40.0	221.6	27.5	0.7	57	154	2	2
	45.0	221.8	29.6	2.0	88	1	2	2
	50.0	221.8	31.8	2.6	87	179	2	2
	55.0	221.6	34.0	1.7	48	145	2	2
	60.0	221.2	36.2	0.7	114	36	2	2
	65.0	220.5	38.3	2.7	14	120	2	2
	70.0	219.6	40.4	1.4	159	91	2	2
	75.0	218.4	42.4	0.6	3	120	2	2
	80.0	216.9	44.3	0.4	17	140	2	2
	85.0	215.2	46.1	1.0	51	179	2	2
	88.0	213.9	47.1	0.4	32	163	2	3
	90.0	213.0	47.7	0.9	67	21	2	2
	96.0	210.1	49.5	0.6	145	107	2	3
	104.0	205.5	51.4	2.3	125	98	2	3
	112.0	200.2	52.7	0.8	141	125	2	3
	123.0	192.6	53.4	2.3	98	98	1	2
	128.0	188.6	53.3	1.0	47	55	2	3
	136.0	182.9	52.3	1.1	38	57	2	3
	144.0	177.8	51.0	0.8	40	70	2	3
	152.0	173.4	48.9	0.3	59	100	2	3
	160.0	169.8	46.4	0.8	28	79	2	3
	168.0	166.9	43.5	0.6	32	92	2	3
	176.0	164.9	40.4	0.4	33	102	2	3
	184.0	163.5	37.0	0.9	73	150	2	3
	188.0	163.1	35.3	1.0	66	146	2	3
	330.0	203.8	3.8	0.9	167	144	2	2
	335.0	205.7	4.8	0.1	24	176	2	2
	340.0	207.6	5.9	1.2	72	40	2	2
	345.0	209.4	7.2	1.8	63	27	2	2
	350.0	211.2	8.5	3.2	56	15	2	2
	355.0	212.8	10.0	1.9	92	47	2	2
65.0	31.5	220.0	24.0	1.8	72	176	2	1
	71.0	218.4	40.4	1.0	12	125	1	2
65.2	339.0	206.6	6.6	1.5	59	28	1	2
65.3	36.0	220.0	26.0	0.9	82	1	1	1
65.4	55.0	220.0	34.0	1.7	54	152	1	1
65.5	41.0	220.0	28.0	1.5	79	174	2	1
65.6	46.0	220.0	30.0	1.2	106	17	1	1
66.0	0.0	212.7	12.9	3.8	122	72	2	2
	5.0	214.0	14.5	3.3	151	97	2	2
	10.0	215.2	16.2	2.0	172	114	2	2
	15.0	216.3	18.0	2.8	67	4	2	2
	20.0	217.2	19.8	1.7	95	28	2	2
	25.0	217.9	21.7	0.7	42	151	2	2
	30.0	218.6	23.7	1.4	57	161	2	2
	35.0	219.1	25.7	1.2	72	172	2	2
	40.0	219.4	27.7	2.0	46	141	2	2
	45.0	219.5	29.7	2.1	84	175	2	2
	50.0	219.5	31.7	3.1	83	177	2	2
	55.0	219.2	33.8	1.3	70	168	2	2
	60.0	218.8	35.8	2.5	83	6	2	2
	65.0	218.1	37.7	1.3	32	140	2	2
	70.0	217.2	39.6	0.8	42	155	2	2
	75.0	216.0	41.5	1.0	12	131	2	2
	80.0	214.6	43.2	1.1	168	112	2	2
	85.0	212.9	44.8	1.0	16	146	2	2
	90.0	211.0	46.3	1.0	21	156	2	2
	330.0	202.9	5.7	0.6	14	171	2	2
	335.0	204.8	6.6	1.1	6	158	2	2
	340.0	206.6	7.6	1.9	36	3	2	2
	345.0	208.2	8.8	2.6	34	177	2	2
	350.0	209.8	10.0	4.5	61	19	2	2
	355.0	211.3	11.4	4.1	83	38	2	2
67.0	143.0	180.9	48.7	0.4	48	75	1	3
68.0	0.0	211.2	14.2	2.0	120	70	2	2
	5.0	212.3	15.7	1.6	145	91	2	2
	10.0	213.4	17.3	1.4	127	69	2	2
	15.0	214.4	18.9	0.7	76	13	3	2
	20.0	215.2	20.6	1.3	81	14	2	2
	25.0	215.9	22.4	0.9	87	15	3	2
	30.0	216.5	24.2	2.5	86	9	3	2
	35.0	216.9	26.0	2.4	58	158	2	2

TABLE 1 *(continued)*

LAT	LONG	R.A.	DECL	INT	GAL	EQ	N	PER
68.0	40.0	217.1	27.9	3.0	49	143	2	2
	40.0	217.1	27.9	2.3	52	146	8	3
	45.0	217.2	29.7	1.7	68	158	2	2
	50.0	217.1	31.6	1.7	63	158	2	2
	55.0	216.9	33.5	0.1	88	7	2	2
	60.0	216.4	35.3	1.2	87	11	2	2
	65.0	215.7	37.1	0.6	87	17	2	2
	70.0	214.8	38.8	1.4	36	151	2	2
	75.0	213.7	40.5	1.3	36	156	2	2
	80.0	212.4	42.1	1.1	178	126	2	2
	85.0	210.8	43.5	0.9	1	132	2	2
	88.0	209.7	44.4	0.7	169	124	2	3
	90.0	209.0	44.9	0.6	13	150	2	2
	96.0	206.5	46.3	0.4	149	113	2	3
	104.0	202.7	47.8	0.6	110	84	2	3
	112.0	198.5	48.9	1.8	129	115	2	3
	120.0	194.0	49.4	1.4	132	128	1	3
	128.0	189.4	49.3	1.0	54	61	2	3
	136.0	184.9	48.7	1.0	6	23	2	3
	144.0	180.8	47.5	0.5	24	52	2	3
	152.0	177.1	45.9	0.2	17	55	2	3
	160.0	174.0	43.8	0.4	73	121	2	3
	168.0	171.6	41.4	0.6	50	107	1	3
	176.0	169.7	38.8	0.6	51	117	2	3
	184.0	168.4	36.0	0.7	61	135	2	3
	188.0	167.9	34.6	1.0	74	152	2	3
	330.0	202.1	7.5	0.8	55	31	2	2
	350.0	208.5	11.5	3.6	107	65	2	2
	355.0	209.9	12.8	3.3	99	53	3	2
	355.0	209.9	12.8	2.8	101	56	1	3
68.2	169.0	171.6	41.1	0.4	67	125	1	3
70.0	0.0	209.6	15.5	0.9	98	47	2	2
	5.0	210.6	16.9	1.6	81	26	2	2
	10.0	211.6	18.3	2.6	93	33	2	2
	15.0	212.5	19.8	0.7	107	43	2	2
	20.0	213.2	21.4	1.0	72	4	2	2
	25.0	213.8	23.0	0.7	80	7	2	2
	50.0	214.8	31.4	1.3	84	179	2	2
	55.0	214.5	33.1	1.5	72	173	2	2
	60.0	214.0	34.8	2.7	61	167	2	2
	66.0	213.2	36.7	1.9	31	163	2	2
	70.0	212.5	38.0	0.6	35	151	2	2
	75.0	211.5	39.5	1.0	79	20	2	2
	80.0	210.2	40.9	0.7	43	170	2	2
	85.0	208.8	42.2	0.9	5	138	2	2
	90.0	207.1	43.4	0.3	165	124	2	2
	330.0	201.3	9.3	0.8	0	156	2	2
	335.0	202.9	10.1	1.7	12	164	4	2
	340.0	204.4	11.0	2.0	26	173	4	2
	345.0	205.8	11.9	1.0	74	37	4	2
	350.0	207.1	13.0	1.3	91	50	2	2
71.3	128.0	190.0	46.0	1.4	94	100	40	1
72.0	0.0	208.0	16.8	2.0	77	26	2	2
	5.0	208.9	18.0	2.5	107	52	2	2
	10.0	209.8	19.3	2.0	105	45	2	2
	15.0	210.6	20.7	1.2	96	31	2	2
	20.0	211.2	22.1	0.9	116	47	2	2
	25.0	211.8	23.6	0.9	92	18	2	2
	30.0	212.2	25.0	0.5	82	4	2	2
	35.0	212.5	26.6	1.1	99	15	2	2
	40.0	212.6	28.1	0.5	91	4	2	2
	50.0	212.5	31.2	1.1	59	156	2	2
	55.0	212.2	32.7	1.3	63	165	2	2
	60.0	211.7	34.2	1.6	55	162	2	2
	65.0	211.1	35.7	0.5	54	166	2	2
	70.0	210.3	37.1	1.0	177	115	2	2
	75.0	209.3	38.4	1.3	165	108	2	2
	80.0	208.1	39.7	2.0	149	98	2	2
	85.0	206.8	40.8	1.2	39	172	2	2
	88.0	205.9	41.5	0.1	96	54	2	3
	90.0	205.3	41.9	1.4	41	1	2	2
	96.0	203.3	43.0	2.0	106	73	2	3
	104.0	200.3	44.2	0.4	146	122	2	3
	112.0	197.0	45.0	1.3	114	101	2	3
	120.0	193.6	45.4	0.5	89	86	2	3
	128.0	190.1	45.3	0.6	105	112	2	3
	136.0	186.6	44.8	1.0	91	108	2	3
	144.0	183.4	43.9	0.3	65	92	3	3
	152.0	180.5	42.7	0.6	78	114	2	3
	160.0	178.0	41.1	0.2	71	116	2	3
	168.0	175.9	39.2	0.5	15	69	2	3
	176.0	174.2	37.1	0.3	58	121	2	3
	184.0	173.0	34.8	0.7	75	146	2	3
	188.0	172.6	33.6	0.6	83	159	2	3
	330.0	200.5	11.1	1.3	178	153	2	2
	355.0	206.9	15.6	0.9	17	150	2	2
72.8	4.0	208.1	18.2	2.8	129	74	1	2
74.0	0.0	206.3	18.0	1.5	155	104	2	2
	10.0	207.9	20.3	1.2	129	69	2	2
	20.0	209.2	22.8	0.1	40	151	2	2
	30.0	210.0	25.4	0.2	35	136	2	2
	40.0	210.3	28.2	1.1	138	49	2	2
	50.0	210.2	30.9	0.5	98	16	2	2
	60.0	209.4	33.6	1.8	104	32	2	2
	70.0	208.1	36.1	1.2	145	83	2	2
	80.0	206.1	38.4	1.7	150	99	2	2
	90.0	203.6	40.4	0.9	99	60	2	2
	330.0	199.6	13.0	0.8	39	15	2	2
	340.0	202.1	14.3	1.8	17	163	2	2
	350.0	204.4	16.0	1.9	160	117	2	2
76.0	0.0	204.7	19.2	1.1	1	129	2	2
	10.0	206.1	21.3	0.6	81	20	2	2
	20.0	207.1	23.5	0.7	64	174	2	2
	30.0	207.8	25.8	0.2	105	25	2	2
	40.0	208.1	28.2	0.9	139	50	2	2
	50.0	207.8	30.6	1.8	121	40	4	2
	60.0	207.1	33.0	2.1	134	64	2	2
	70.0	205.9	35.2	1.3	130	71	3	2
	80.0	204.2	37.1	1.3	175	125	3	2
	90.0	202.0	38.8	0.2	155	117	2	2
	90.0	202.0	38.8	2.2	174	136	2	3
	100.0	199.4	40.1	0.2	108	81	2	3
	110.0	196.4	41.0	0.6	151	136	2	3
	120.0	193.2	41.4	0.4	88	85	2	3
	130.0	190.0	41.3	0.3	24	32	2	3
76.0	140.0	186.9	40.7	0.5	107	127	2	3
	150.0	184.1	39.6	0.9	122	153	2	2
	155.0	182.8	39.0	1.1	110	147	2	2
	160.0	181.6	38.2	1.0	118	141	2	2
	170.0	179.6	36.4	0.6	88	142	2	3
	180.0	178.0	34.3	0.4	62	126	2	3
	190.0	177.0	32.0	0.8	86	161	1	3
	330.0	198.8	14.8	2.7	19	174	2	2
	340.0	201.0	16.0	3.3	20	166	2	2
	350.0	202.9	17.5	0.7	39	176	2	2
76.2	190.0	177.3	32.0	0.3	71	145	1	3
78.0	0.0	203.0	20.5	1.4	33	160	3	2
	10.0	204.2	22.2	1.1	74	12	3	2
	20.0	205.1	24.1	1.1	85	13	2	2
	30.0	205.6	26.1	0.8	110	29	2	2
	40.0	205.8	28.2	0.8	122	33	2	2
	50.0	205.6	30.3	2.9	105	26	2	2
	60.0	204.9	32.3	2.8	91	21	2	2
	70.0	203.8	34.1	1.2	77	18	2	2
	80.0	202.3	35.8	0.6	81	33	2	2
	90.0	200.4	37.2	1.0	96	59	2	2
	150.0	185.4	37.9	1.0	103	134	1	2
	155.0	184.3	37.4	1.1	107	143	2	2
	160.0	183.3	36.7	0.7	101	143	2	2
	330.0	197.9	16.6	1.4	169	144	2	2
	340.0	199.8	17.6	2.6	177	143	2	2
	350.0	201.5	18.9	0.6	162	118	2	2
80.0	0.0	201.3	21.7	2.5	43	170	2	2
	10.0	202.3	23.1	1.8	70	8	1	2
	20.0	203.0	24.7	1.6	87	15	2	2
	30.0	203.4	26.4	2.0	98	16	2	2
	40.0	203.5	28.2	0.9	16	108	2	2
	50.0	203.3	29.9	2.0	113	34	2	2
	60.0	202.7	31.6	2.4	89	21	2	2
	70.0	201.8	33.1	4.2	83	25	2	2
	80.0	200.5	34.5	1.3	73	26	2	2
	90.0	198.9	35.6	2.4	114	78	2	2
	300.0	191.7	17.4	0.3	84	87	2	2
	330.0	197.0	18.4	1.9	6	161	4	2
	340.0	198.6	19.3	2.2	11	157	2	2
	350.0	200.0	20.4	3.2	24	160	2	2
82.0	0.0	199.5	22.9	2.7	73	19	2	2
	10.0	200.3	24.0	1.6	90	27	2	2
	20.0	200.9	25.3	1.4	83	10	2	2
	30.0	201.2	26.7	2.4	103	20	2	2
	40.0	201.3	28.1	2.3	117	30	2	2
	50.0	201.0	29.5	1.5	76	179	2	2
	60.0	200.6	30.8	3.4	41	155	2	2
	70.0	199.8	32.0	2.3	39	162	2	2
	80.0	198.8	33.1	0.6	18	152	2	2
	90.0	197.5	34.0	2.2	148	112	2	2
	105.0	195.3	35.0	1.6	160	140	2	3
	120.0	192.8	35.4	0.4	116	112	2	3
	135.0	190.2	35.2	0.9	100	114	2	3
	150.0	187.9	34.5	1.1	81	110	2	3
	165.0	185.9	33.2	0.7	28	73	2	3
	180.0	184.4	31.5	0.3	55	116	2	3
	195.0	183.5	29.6	0.5	51	128	2	3
	210.0	183.2	27.5	0.6	35	123	2	3
	225.0	183.6	25.5	0.6	66	140	2	3
	240.0	184.5	23.6	1.1	109	169	2	3
	255.0	185.9	21.9	0.3	127	172	2	3
	270.0	187.6	20.6	1.0	67	98	2	3
	284.0	189.6	19.8	0.8	132	150	2	3
	300.0	191.8	19.4	0.9	144	147	2	3
	319.0	194.7	19.7	1.6	179	163	2	2
	330.0	196.1	20.2	2.2	16	171	2	2
	340.0	197.4	20.9	2.3	21	166	2	2
84.0	0.0	197.8	24.0	2.0	79	25	2	2
	15.0	198.6	25.4	1.9	75	6	2	2
	30.0	199.0	26.9	2.6	77	173	2	2
	45.0	198.9	28.5	2.0	62	161	1	2
	60.0	198.4	30.0	2.6	179	113	2	2
	75.0	197.5	31.3	1.5	174	123	2	2
	91.0	196.1	32.4	2.2	155	121	1	2
	105.0	194.5	33.1	2.0	156	137	2	2
	121.0	192.6	33.4	1.6	132	129	2	2
	135.0	190.8	33.3	1.6	114	127	3	2
	151.0	189.0	32.7	1.3	106	135	2	2
	165.0	187.5	31.8	0.5	73	117	2	2
	180.0	186.4	30.6	0.8	60	120	2	2
	195.0	185.7	29.1	0.6	82	157	2	2
	210.0	185.5	27.6	0.5	33	123	2	2
	225.0	185.7	26.0	0.9	67	142	2	2
	240.0	186.4	24.6	0.7	111	172	2	2
	255.0	187.4	23.3	0.5	124	170	2	2
	270.0	188.7	22.3	0.3	156	8	3	2
	285.0	190.3	21.7	0.7	137	154	2	2
	299.0	191.9	21.4	0.4	169	172	2	2
	315.0	193.6	21.5	1.1	11	0	2	2
	330.0	195.2	22.0	2.0	31	5	2	2
	345.0	196.6	22.9	2.2	67	27	2	2
	349.0	197.0	25.2	2.8	66	21	2	2
	349.0	197.0	23.2	1.8	70	25	8	3
84.3	89.0	196.1	32.1	2.8	149	113	1	2
86.0	0.0	196.0	25.2	1.8	39	164	2	2
	30.0	196.7	27.1	1.6	72	167	2	2
	61.0	196.3	29.2	1.3	121	57	2	2
	89.0	194.9	30.7	0.7	152	117	2	2
	121.0	192.5	31.4	1.1	108	106	2	2
	151.0	190.1	31.0	1.6	113	142	2	2
	181.0	188.4	29.5	0.9	123	3	2	2
	211.0	187.7	27.5	0.9	79	168	2	2
	240.0	188.3	25.5	1.3	92	153	2	2
	270.0	189.9	24.0	0.6	140	172	2	2
	299.0	192.0	23.4	0.5	158	162	2	2
	329.0	194.2	23.8	1.4	137	112	2	2
88.0	− 1.0	194.1	26.5	0.8	158	103	2	2
	60.0	194.3	28.3	1.0	2	118	2	2
	121.0	192.4	29.4	2.4	132	130	2	2
	181.0	190.3	28.5	1.5	104	163	2	2
	239.0	190.3	26.5	0.9	116	179	2	2
	298.0	192.1	25.4	1.4	142	147	2	2
90.0	123.0	192.3	27.4	1.5	138	138	2	2