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**record of observations at
victoria magnetic observatory 1972**

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DEPARTMENT OF ENERGY, MINES AND RESOURCES

OTTAWA, CANADA 1974

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Geographic Coordinates: 48° 31'; 123° 25'

Geomagnetic Coordinates: 54.3°; 292.7°*

Officer-in-Charge: L.K. Law

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Introduction

The Victoria Magnetic Observatory was established in 1957, on the grounds of the Dominion Astrophysical Observatory on Little Saanich Mountain, about 16 km north of Victoria, British Columbia. The magnetic observatory is pleasantly situated, some 185 m above mean sea level, in a wooded area about 120 m northeast of the Dominion Astrophysical Observatory office building. The site was chosen in 1956 for convenience to facilities and power, while maintaining adequate separation from buildings and pipelines.

The Victoria Magnetic Observatory is controlled by the Division of Geomagnetism of the Earth Physics Branch, Ottawa, Canada.

Site

The area is underlain by acid intrusive rocks of Mesozoic age. A grid separation was made in 1956 to determine the vertical magnetic field intensity gradients. This revealed an average station difference, independent of sign, of 25 gammas† ±20 gammas standard deviation in any one difference. No large anomalies exceeding 25 gammas were found within 30 m of the building site and the distribution of small anomalies was apparently random.

Magnetic equipment

A) Buildings

Pre-fabricated hut. The first and only

building erected when the observatory was established was an insulated aluminum pre-fabricated hut. It is located 30 m east of the access road to the Astrophysical Observatory. The building was constructed in 1956 and during 1957-1958 all the magnetic equipment was housed in it.

Variometer building. Prior to the end of the Geophysical Year, the decision was made to establish Victoria as a continuing magnetic observatory, and in 1959 a permanent variometer building was constructed. It is located about 30 m to the east of the original building; it is an insulated 5.5 m × 5.5 m cement block structure, containing two 3 m × 4.5 m rooms and a 1.2 m × 5.5 m light-trap entrance. The floor is a single concrete slab resting on bedrock, providing a location of instruments as well as an effective heat-sink. Both rooms are electrically heated, and have sensitive thermostat controls. Non-magnetic construction materials were used throughout.

Absolute building. A permanent building for the absolute instruments was completed in 1961, located about 30 m north of the variometer building. An extension was added in 1967. The building consists of a single room, 3 m × 9 m and construction is completely non-magnetic. The entire building rests on a solid concrete slab floor.

B) Magnetic recording systems

Ruska variometer. A set of Ruska photographic variometers records the horizontal intensity H, the declination D, and the vertical intensity Z of the

geomagnetic field. The time scale of the Ruska variometer is 20 mm/hr. In 1971 the mechanical clock drive was replaced by a synchronous motor. Timing is supplied by a Sprengnether type TS-100 crystal-controlled chronometer with periodic comparison against WWV time signals. Timing accuracy of the magnetogram hour marks is maintained to ±5 seconds. The time used throughout is Universal Time—UT. A floating battery supply prevents loss of trace due to power failures.

Fluxgate magnetometer. A three-component transistorized magnetometer (Trigg *et al.*, 1971) records H, D, Z on a strip-chart recorder. Chart speed is 20 mm/hr. The recorder sensitivity is normally 1,000 gammas full scale with automatic halving of the sensitivity during times of large disturbances.

Digitally recording magnetometer system. As of Jan. 1, 1971 an automatic magnetic observatory system (AMOS) (Andersen, 1973) was in operation at the observatory. It records values of D, H, Z and F once per minute, on digital magnetic tape, together with the date, time, and station identification, and in a format which can be read directly by a computer.

The elements D, H, Z are derived from a fluxgate magnetometer. A proton precession magnetometer, with its sensor 8 m from the fluxgate magnetometer, measures F.

C) Absolute instruments

The absolute instruments used for the determination of baselines consisted of a

*Assuming the position of the geomagnetic pole is 78.3° N, 69.0° W (Finch and Leaton, 1957).

† 1γ = 1 nanotesla.

GSI precise (first order) magnetometer, following the rotating coil design of Dr. I. Tsubokawa, and manufactured by Sokkisha Limited, Japan. This instrument was used for the determination of declination and inclination. A proton precession magnetometer manufactured by Presentey Engineering Products (model PPM-1) was used for measurement of the total force.

D) 1972 Ruska scale values

D:	Jan. 1 to Dec. 31,	0.94 min/mm or 5.15 ±0.03 γ/mm
		(γ/mm)
H:	Jan. 1 to May 11,	2.33 ± 0.02
	May 11 to Oct. 12,	2.25 ± 0.02
	Oct. 12 to Nov. 11,	2.36 ± 0.02
	Nov. 11 to Dec. 31,	2.28 ± 0.02
Z:	Jan. 1 to May 11,	4.12 ± 0.03
	May 11 to Oct. 12,	3.95 ± 0.03
	Oct. 12 to Dec. 31,	4.18 ± 0.03

Absolute observations and baseline values

Absolute observations were generally made four times a month. Simultaneous marks were placed on the Ruska record and the baseline values determined from measurements of the ordinates at these points.

The declination, inclination and total force were measured using the absolute instruments described above. The horizontal and vertical components are then computed from these measured values.

Baseline drift in all three components was negligible. The rms value of the observed minus adopted baselines is ±0.4 minute for declination, ±2 gammas for the horizontal component, and ±2 gammas for the vertical component.

Magnetic reductions

The data was processed on the semiautomatic magnetogram reader (Caner and Whitham, 1970) with output directly on computer cards. The system 370/model 145 computer at the University of Victoria was then used to a) cross-check the computed sum of the hourly mean values against the daily mean value (these are derived from independent channels in the magneto-

1972 Ruska Baseline Values

Declination D	Jan. 1 (0000) – Jan. 15 (2400)	22° 9.0'	East
	Jan. 16 (0000) – Jan. 31 (2400)	22° 9.2'	
	Feb. 1 (0000) – Oct. 1 (2400)	22° 9.4'	
	Oct. 2 (0000) – Nov. 16 (2400)	22° 9.8'	
	Nov. 17 (0000) – Dec. 31 (2400)	22° 10.3'	
Horizontal intensity H	Jan. 1 (0000) – May 11 (1628)	18916	(γ)
	May 11 (1628) – Oct. 12 (1607)	18982	
	Oct. 12 (1607) – Nov. 11 (0010)	18901	
	Nov. 11 (0010) – Dec. 31 (2400)	18963	
Temperature correction (γ/mm T)	+9 when temperature is greater than reference level		
	-7 when temperature is less than reference level		
Vertical intensity Z	Jan. 1 (0000) – May 11 (1628)	53052	(γ)
	May 11 (1628) – Oct. 12 (1607)	53035	
	Oct. 12 (1607) – Dec. 31 (2400)	53049	
Temperature correction	-2 γ/mm T		
Temperature reference levels	Jan. 1 (0000) – May 11 (1628)	5.0	(mm)
	May 11 (1628) – Oct. 12 (1607)	13.3	
	Oct. 12 (1607) – Dec. 31 (2400)	4.4	

gram reader); b) print out the hourly mean value tables; c) compute and print out the summary mean tables. Direct photo-offset reproduction of the computer output sheets was used for the publication. The data are available on tab cards, and duplicate decks can be supplied to interested agencies.

The seasons as listed in the summary mean tables are defined as follows: Winter – January, February, November, and December; Equinox – March, April, September, and October; Summer – May, June, July, and August.

Microfilm copies of the standard-run photographic magnetograms with provisional baseline and scale values were supplied to the World Data Center A, Washington, on a monthly basis.

Magnetic activity and disturbance indices

The magnetograms were inspected each month for occurrences of magnetic phenomena and these results reported to the I.A.G.A.

Tables 46–51 show the three-hour range indices for each element separately,

together with the adopted maximum or K-value. The lower limit adopted for K = 9 was 500 gammas.

As of May 1, 1964, the vertical component range indices were no longer used for the derivation of the K-indices, although they are still being scaled and listed. In practice this change in procedure did not introduce any significant discontinuity in local K-indices, since at Victoria the Z-component range is usually well below the range of the horizontal components.

The three-hour range indices and the K-indices were punched on computer cards and the corresponding tables were set up and printed by computer means. Direct photo-offset reproduction of the computer output sheets was used for publication.

Summary of annual mean values

The mean values listed have been corrected to the new (post-1961) location and absolute standards.

For the period 1971.5–1972.5, the decrease in declination was 2.8 minutes (the mean rate of decrease over the whole

Summary of Annual Mean Values

Year	D		H	Z	X	Y	I		F
	East						°	'	
	°	'	γ	γ	γ	γ	°	'	γ
1956.6	23	00.2	18689	53427	17203	7303	70	43.2	56601
1957.75	22	57.1	19705	53408	17224	7294	70	41.9	56589
1958.5	22	55.2	18713	53396	17236	7288	70	41.2	56580
1959.5	22	52.8	18736	53377	17262	7284	70	39.5	56570
1960.5	22	50.3	18748	53362	17278	7277	70	38.5	56560
1961.5	22	47.8	18787	53322	17319	7279	70	35.5	56535
1962.5	22	44.4	18804	53288	17342	7268	70	33.8	56508
1963.5	22	41.4	18814	53264	17358	7257	70	32.7	56489
1964.5	22	38.6	18837	53239	17385	7252	70	30.9	56473
1965.5	22	36.0	18860	53205	17412	7248	70	28.9	56449
1966.5	22	34.2	18873	53179	17428	7244	70	27.6	56429
1967.5	22	31.7	18888	53157	17447	7237	70	26.3	56413
1968.5	22	29.4	18902	53138	17464	7230	70	25.1	56400
1969.5	22	27.4	18923	53127	17488	7228	70	23.7	56396
1970.5	22	24.8	18946	53117	17515	7224	70	22.2	56395
1971.5	22	21.8	18971	53099	17544	7218	70	20.4	56386
1972.5	22	19.0	18986	53085	17564	7209	70	19.2	56378

17-year period being 2.6 minutes per year); the increase in horizontal intensity was 15 gammas (the mean rate of increase over the 17-year period being 19 gammas per year); the decrease in the vertical component was 14 gammas (the mean rate of decrease over the 17-year period being 21 gammas per year).

Acknowledgments

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References

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- Caner, B., and K. Whitham. 1970. A magnetogram reading machine. *Pub. Earth Phys. Br.*, Vol. 41, No. 3.
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HORIZONTAL INTENSITY

MEAN VALUES FOR PERIODS OF SIXTY MINUTES, UNIVERSAL TIME

TABLE 1 VICTORIA		H = 18,500 GAMMA +																				JANUARY 1972			
HOUR =	00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23	MEAN
	TO	TO	TO	TO	TO	TO	TO	TO	TO	TO	TO	TO	TO	TO	TO	TO	TO	TO	TO	TO	TO	TO	TO	TO	
	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	
DAY																									
1	485	490	487	485	483	481	480	479	481	483	483	485	486	487	487	488	485	486	476	454	451	459	462	477	479
2	486	487	485	484	483	484	480	479	479	486	484	486	486	487	492	491	487	487	461	449	464	471	482	491	481
3	492	494	491	491	489	480	477	463	469	475	474	478	480	484	482	481	477	469	458	457	464	474	482	486	478
4	486	480	466	467	481	476	467	474	478	480	483	483	483	486	485	485	485	476	464	458	460	470	477	483	476
5	495	492	488	487	489	487	485	483	485	490	487	486	491	493	487	490	486	474	459	454	457	469	484	489	483
6 Q	495	496	493	492	487	490	486	485	486	487	485	489	489	491	489	488	485	478	468	463	463	468	477	488	484
7 Q	495	497	494	493	492	490	488	488	487	489	488	488	488	493	492	497	495	487	474	459	462	473	483	495	487
8 Q	495	495	495	494	492	490	488	488	488	488	490	491	492	493	495	495	493	488	471	474	469	474	481	488	488
9	487	483	486	490	486	482	483	481	484	488	488	488	487	492	492	496	495	494	478	471	466	471	478	488	485
10	489	483	480	482	484	487	488	489	486	487	487	491	492	493	494	496	492	472	460	457	455	463	468	467	481
11	461	467	456	465	475	474	475	465	460	461	465	473	482	481	483	478	486	480	471	463	462	466	466	463	470
12	473	477	478	476	476	474	476	478	477	475	473	478	480	479	479	485	487	488	480	476	467	464	465	480	477
13 Q	484	484	483	484	483	484	483	483	483	485	485	487	486	486	487	489	488	486	479	471	466	470	483	491	483
14 Q	495	494	488	487	489	489	488	488	486	487	485	487	487	489	485	485	487	481	472	467	467	473	484	490	485
15	497	497	493	490	488	482	481	487	483	486	490	494	484	486	501	487	458	454	457	456	456	453	459	469	479
16 D	479	476	477	478	476	467	455	468	475	464	471	467	468	474	483	406	498	487	469	451	450	455	461	467	468
17	467	451	452	451	470	474	469	472	470	471	471	474	472	475	477	472	457	468	442	448	456	466	474	476	466
18	479	473	471	471	458	489	473	461	473	474	483	470	454	470	472	476	463	466	467	512	462	470	476	469	472
19	478	472	474	476	473	478	481	474	483	477	479	474	473	482	485	475	486	493	485	473	470	472	473	472	477
20	485	487	483	473	478	473	471	483	479	471	473	466	477	485	488	487	490	487	474	469	464	467	470	478	477
21	484	484	488	486	485	481	482	474	463	464	458	478	473	471	435	439	436	444	448	446	448	456	468	475	465
22 D	476	479	474	468	459	464	490	459	459	461	448	464	467	473	471	463	447	431	461	461	457	452	454	433	461
23 D	426	435	426	446	446	460	465	459	451	439	469	457	463	467	468	469	470	464	453	440	428	434	444	463	452
24	470	470	471	476	476	471	468	470	475	476	475	471	478	478	477	478	475	470	448	426	436	448	460	472	467
25	474	476	477	471	456	455	443	458	465	468	466	468	479	480	479	482	480	468	469	462	459	454	466	459	467
26 D	468	484	482	479	476	494	481	480	485	477	471	480	489	485	483	481	472	477	469	454	452	464	474	476	476
27	476	482	476	480	485	481	472	478	488	476	475	470	483	488	482	489	485	468	457	455	465	463	476	483	476
28 D	483	484	486	479	477	475	468	479	470	470	485	468	477	476	473	476	458	460	430	418	408	446	455	463	465
29	471	470	471	468	463	484	475	476	476	475	478	479	483	482	462	469	482	469	451	438	448	454	456	453	468
30	468	471	467	482	484	478	477	477	479	481	480	483	483	486	484	482	475	473	475	471	464	456	464	472	476
31	481	486	486	485	479	485	485	485	485	484	486	487	490	486	488	492	479	484	474	460	459	461	470	476	481
MEAN	480	481	478	479	478	479	477	476	477	477	478	479	481	483	482	480	479	474	465	458	457	462	470	475	475

DECLINATION

MEAN VALUES FOR PERIODS OF SIXTY MINUTES, UNIVERSAL TIME

TABLE 2 VICTORIA

D = 22 DEG 00.0 MIN EAST +

JANUARY 1972

HOUR =	00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23	MEAN
TO	TO	TO	TO	TO	TO	TO	TO	TO	TO	TO	TO	TO	TO	TO	TO	TO	TO	TO	TO	TO	TO	TO	TO	TO	
	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	
DAY																									
1	17.7	19.5	19.9	21.0	21.1	20.8	20.4	20.1	20.0	20.3	19.8	20.8	20.7	20.2	20.2	21.9	22.6	23.4	23.1	21.0	17.8	16.4	17.2	19.0	20.2
2	18.4	19.4	19.8	20.4	20.7	20.8	20.5	20.7	20.7	18.7	20.3	20.5	20.3	19.9	20.5	21.2	20.3	23.4	22.1	19.2	19.6	17.7	17.0	18.1	20.0
3	18.8	19.8	20.2	20.5	20.5	20.9	22.2	20.7	19.0	19.0	19.2	20.1	19.7	20.1	20.7	21.9	22.7	23.9	22.5	21.8	19.0	18.1	18.2	17.9	20.3
4	19.4	20.2	21.2	21.6	22.4	21.8	24.6	22.8	19.8	19.1	19.8	20.9	19.8	20.2	20.3	21.3	23.3	25.2	24.9	23.5	20.2	17.7	18.0	18.8	21.1
5	19.1	19.6	20.6	21.6	21.5	21.2	20.8	21.1	20.0	19.2	20.5	19.8	19.0	20.3	20.2	21.9	24.8	25.1	24.7	22.6	19.4	17.5	17.3	18.3	20.7
6 Q	18.8	19.5	20.1	20.4	22.0	20.9	20.9	20.7	20.2	20.1	19.8	20.1	19.9	20.5	21.7	22.2	23.7	25.0	24.7	22.4	20.0	18.2	17.3	17.3	20.7
7 Q	17.3	19.2	19.7	20.5	20.9	20.9	20.6	20.2	20.2	19.8	19.7	19.9	19.9	19.6	20.2	21.0	22.6	24.2	25.5	24.2	20.7	18.2	17.0	17.3	20.4
8 Q	18.1	19.3	19.6	20.6	20.3	20.5	20.6	20.8	20.9	20.4	20.0	20.1	19.9	19.8	20.1	20.4	21.9	24.7	24.4	22.4	20.9	18.9	17.9	17.7	20.4
9	17.7	18.3	18.5	20.3	20.5	20.4	20.9	21.1	20.8	21.6	21.1	20.6	20.2	18.7	19.8	20.3	21.3	24.9	24.7	22.2	20.4	17.7	16.4	16.9	20.2
10	17.7	17.8	17.5	19.8	20.4	20.5	20.5	20.4	20.0	19.8	19.8	19.7	19.6	19.4	19.5	19.9	22.4	22.9	22.3	19.9	17.3	14.2	13.5	15.1	19.2
11	16.5	14.9	17.5	19.5	20.0	21.6	21.6	22.3	23.2	25.1	25.1	23.8	21.4	19.1	21.0	21.2	22.7	23.5	22.2	21.5	20.0	18.3	17.1	17.4	20.7
12	17.4	17.8	19.7	20.3	20.5	20.1	20.1	20.5	21.2	21.0	20.7	21.1	20.6	20.3	18.8	20.4	22.4	22.3	21.7	20.9	19.6	18.3	17.3	17.2	20.0
13 Q	18.2	18.9	19.8	19.8	20.1	20.3	20.6	20.1	19.8	19.3	20.0	20.4	20.2	20.0	20.7	21.5	22.7	22.8	22.8	21.7	20.0	18.3	17.6	18.3	20.2
14 Q	18.8	19.2	19.8	20.2	19.5	20.1	19.9	20.1	19.9	19.9	19.9	20.3	20.4	20.8	20.7	21.3	22.1	22.7	22.1	20.9	19.4	17.8	17.5	17.9	20.0
15	18.2	18.6	19.0	19.6	19.6	19.5	19.3	20.0	20.6	22.2	21.6	20.7	23.7	11.0	22.2	22.9	17.8	14.2	16.3	16.9	20.3	21.0	20.5	19.5	19.4
16 D	19.6	19.1	20.2	20.2	20.8	21.4	21.8	21.8	21.4	20.7	19.4	23.2	18.6	17.2	17.5	4.1	7.5	21.0	23.3	19.4	19.6	17.9	18.6	19.0	18.9
17	20.1	22.1	22.5	20.7	26.9	24.1	21.4	21.0	19.7	19.9	20.2	20.4	17.8	19.6	22.1	21.1	20.5	21.5	19.8	20.2	18.7	17.3	18.3	19.4	20.6
18	19.4	20.8	28.0	23.7	23.2	27.2	22.4	22.5	17.9	17.9	19.4	23.0	13.5	17.2	21.8	22.9	22.3	17.5	21.1	19.7	19.0	18.0	18.3	19.9	20.7
19	19.5	20.6	21.7	21.4	22.1	22.3	20.9	20.7	19.5	19.7	20.0	21.7	20.5	18.0	20.6	18.6	19.6	18.9	19.8	18.2	18.2	18.0	18.0	19.4	19.9
20	18.6	20.7	20.8	21.3	23.0	21.6	21.3	21.4	20.6	20.5	20.1	21.0	22.7	23.5	21.1	21.4	20.0	21.9	21.1	21.0	19.7	18.4	18.0	18.9	20.8
21	19.7	20.0	20.4	20.7	20.9	21.4	23.0	21.6	20.6	18.9	18.4	17.1	19.2	17.3	13.5	22.9	25.4	26.5	25.3	22.4	21.0	18.9	18.1	18.5	20.5
22 D	19.1	20.0	19.9	21.0	22.7	20.1	22.5	19.7	23.3	19.2	21.5	24.8	23.2	21.9	22.9	16.6	11.8	12.2	13.9	21.1	20.3	19.3	18.0	18.1	19.7
23 D	18.6	22.2	20.8	21.7	22.3	21.6	21.7	31.4	28.1	24.7	25.5	22.4	21.2	21.6	16.5	21.3	24.7	25.9	25.5	23.0	21.9	19.0	16.1	16.4	22.3
24	17.1	18.0	19.9	20.7	20.3	20.5	20.2	20.0	20.5	20.5	21.8	21.0	19.0	20.2	20.4	22.0	22.7	24.4	24.3	24.3	21.3	16.8	17.2	17.3	20.1
25	18.5	19.7	19.6	19.2	21.2	24.5	26.4	22.8	21.4	20.5	21.4	20.6	20.4	20.7	21.6	22.7	24.4	24.3	24.4	21.9	20.8	19.5	18.6	17.4	21.4
26 D	18.4	19.3	19.7	20.5	21.6	20.7	21.5	22.5	20.4	21.4	16.9	21.3	25.3	23.6	24.3	21.9	23.0	24.8	23.7	21.4	20.2	18.7	18.1	19.0	21.2
27	20.2	19.7	19.8	20.0	21.2	19.6	21.0	21.7	20.8	20.6	20.2	17.1	19.0	18.9	14.1	19.1	22.3	23.4	21.1	20.2	18.8	18.6	18.1	18.5	19.7
28 D	19.5	20.3	19.9	19.5	20.4	20.6	21.4	20.8	22.7	17.5	24.6	23.5	24.1	24.9	22.2	22.2	18.5	15.2	19.9	20.2	19.7	18.9	18.9	19.5	20.6
29	19.8	20.0	20.4	20.1	20.4	25.3	19.9	20.2	20.5	19.9	19.7	20.1	20.2	19.2	16.9	13.5	22.3	23.2	21.6	18.8	18.9	17.5	16.8	17.2	19.7
30	16.8	18.3	20.6	19.7	21.1	21.2	20.8	20.4	20.0	20.7	20.6	20.6	20.5	20.6	21.1	22.0	23.4	22.9	21.3	20.5	19.7	18.6	17.8	17.2	20.3
31	18.0	19.2	19.5	19.9	21.0	19.4	20.3	19.9	20.2	19.7	19.6	20.4	19.7	18.6	20.1	20.9	21.7	21.5	22.3	21.0	19.7	18.5	18.1	16.6	19.8
MEAN	18.5	19.4	20.2	20.5	21.3	21.3	21.3	21.3	20.8	20.3	20.5	20.9	20.3	19.8	20.1	20.4	21.4	22.4	22.3	21.0	19.6	18.1	17.6	18.0	20.3

VERTICAL INTENSITY

MEAN VALUES FOR PERIODS OF SIXTY MINUTES, UNIVERSAL TIME

TABLE 3 VICTORIA

Z = 53.000 GAMMA +

JANUARY 1972

HOUR =	00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23	MEAN
	TO 01	TO 02	TO 03	TO 04	TO 05	TO 06	TO 07	TO 08	TO 09	TO 10	TO 11	TO 12	TO 13	TO 14	TO 15	TO 16	TO 17	TO 18	TO 19	TO 20	TO 21	TO 22	TO 23	TO 24	
DAY																									
1	98	98	100	100	100	100	99	101	99	99	98	98	97	94	95	97	98	99	97	94	94	98	97	99	98
2	102	98	99	99	99	99	99	98	99	94	93	96	96	94	94	94	94	96	94	95	94	93	92	93	96
3	97	95	93	95	95	97	98	99	108	107	103	101	99	100	99	99	101	100	100	103	103	104	102	100	100
4	101	98	100	108	108	103	105	107	108	104	102	100	99	98	98	99	101	102	98	97	98	97	97	98	101
5	101	99	97	98	97	97	96	97	95	89	93	93	92	93	92	94	97	98	95	97	97	96	99	96	96
6 Q	98	99	97	96	95	96	94	96	95	96	95	96	94	94	93	95	98	97	92	92	93	93	96	96	95
7 Q	100	99	97	96	96	95	93	93	94	94	94	95	93	94	94	94	98	96	96	94	93	93	93	97	95
8 Q	96	96	98	96	96	95	93	94	94	96	94	94	95	95	95	95	98	99	96	96	93	94	93	96	95
9	98	98	99	101	100	99	99	98	97	96	96	96	95	95	93	96	98	100	96	93	88	88	89	92	96
10	97	98	100	102	101	100	98	96	95	94	94	94	94	95	94	95	98	96	91	89	88	89	90	95	95
11	100	109	120	125	116	110	105	103	100	102	101	97	85	86	91	100	102	100	94	94	94	96	98	98	101
12	102	105	106	108	107	106	105	104	101	101	98	98	98	97	97	99	102	99	93	91	89	90	93	99	100
13 Q	102	100	101	101	101	101	101	100	99	98	96	96	94	95	94	97	101	99	100	99	96	94	95	95	98
14 Q	95	96	95	98	97	97	97	96	95	95	94	94	93	93	93	97	98	98	99	99	94	95	97	96	96
15	97	96	97	98	99	103	104	102	101	101	100	98	90	56	61	80	82	76	80	93	98	103	107	107	93
16 D	105	102	101	101	101	102	108	107	102	95	27	56	66	76	82	42	48	64	78	89	95	95	96	101	85
17	102	105	113	118	123	110	108	107	106	102	100	97	95	88	96	96	93	99	95	101	98	95	97	99	102
18	100	99	105	105	104	105	90	93	91	88	76	62	44	52	66	75	78	85	90	95	94	94	97	96	87
19	97	97	98	99	98	101	97	99	90	91	93	91	91	87	91	87	87	84	87	90	95	94	92	92	93
20	95	96	96	96	97	96	97	96	84	86	88	85	84	86	86	89	92	90	94	94	94	91	94	97	92
21	99	100	98	95	96	96	97	97	98	95	86	72	6	-58	-78	-32	20	74	87	92	94	99	103	101	68
22 D	103	100	100	105	110	112	113	99	111	108	93	99	102	105	101	68	58	61	72	84	89	94	100	101	95
23 D	114	130	132	135	125	124	116	104	89	88	97	98	99	97	79	85	98	96	97	95	96	105	106	109	105
24	110	109	109	111	109	107	106	108	105	93	97	98	101	100	102	104	106	105	99	98	99	98	102	104	103
25	105	106	106	108	113	113	115	111	115	112	110	105	100	102	104	107	108	105	100	96	96	95	100	99	105
26 D	105	106	105	106	109	108	97	104	103	98	76	30	64	70	78	91	99	103	99	96	95	98	102	101	93
27	104	103	104	106	109	106	108	103	90	88	96	95	98	96	86	88	101	97	99	95	98	97	101	102	99
28 D	102	101	102	103	104	107	111	111	106	95	83	84	94	92	87	81	77	67	77	88	101	112	100	102	95
29	106	105	104	107	110	115	109	105	103	101	100	100	99	94	84	72	81	86	89	95	101	99	97	98	98
30	103	106	109	109	108	105	105	106	104	102	102	100	100	98	98	99	102	100	100	100	99	95	97	97	102
31	100	101	103	101	103	104	104	101	100	99	97	97	96	91	94	95	99	102	98	93	96	99	97	97	99
MEAN	101	102	103	104	104	104	102	101	99	97	93	91	89	86	85	86	91	93	93	94	95	96	97	98	96

HORIZONTAL INTENSITY

MEAN VALUES FOR PERIODS OF SIXTY MINUTES, UNIVERSAL TIME

TABLE 4 VICTORIA

H = 18,500 GAMMA +

FEBRUARY

1972

HOUR =	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23	MEAN	
	TO 01	TO 02	TO 03	TO 04	TO 05	TO 06	TO 07	TO 08	TO 09	TO 10	TO 11	TO 12	TO 13	TO 14	TO 15	TO 16	TO 17	TO 18	TO 19	TO 20	TO 21	TO 22	TO 23		TO 24
DAY																									
1	481	485	486	485	485	484	479	480	479	481	486	487	493	503	491	488	487	488	482	473	470	470	472	473	483
2	478	487	488	478	476	473	461	454	468	468	471	478	477	492	494	497	489	483	474	466	458	460	466	471	475
3	480	485	483	485	484	482	483	483	481	485	473	478	482	488	489	484	477	482	485	471	459	456	466	481	479
4	488	488	477	467	478	479	474	479	475	477	482	474	479	480	482	487	489	481	474	465	462	462	472	483	477
5	488	488	488	487	487	487	486	485	487	485	482	485	489	488	492	491	491	480	476	472	470	461	465	477	483
6	486	489	494	482	488	488	486	483	487	487	485	488	491	492	494	495	495	490	478	458	456	461	464	474	483
7	479	477	480	482	481	480	477	485	481	485	485	485	487	485	488	484	488	482	476	469	460	457	469	463	479
8	484	486	481	476	478	485	485	484	484	486	483	489	489	488	487	492	491	486	479	471	468	465	473	482	482
9 Q	484	489	489	489	490	482	487	487	485	482	487	485	487	489	489	492	492	484	476	467	466	471	479	493	484
10	502	493	485	496	492	488	485	485	488	487	489	490	495	498	498	501	501	498	490	482	481	472	476	489	490
11	494	496	497	493	493	489	483	486	488	482	491	486	487	493	494	495	494	484	478	472	470	471	483	488	487
12 Q	490	489	482	483	488	486	485	485	492	487	489	491	493	493	493	489	485	474	468	461	460	463	475	488	483
13 D	494	495	496	495	492	493	495	497	492	495	499	499	492	487	492	494	487	468	459	456	459	465	463	434	483
14 D	459	472	477	469	475	477	475	480	474	480	482	487	489	490	492	486	491	483	471	457	456	463	470	470	476
15	481	480	486	484	485	488	475	471	484	481	484	484	488	484	491	489	486	481	474	472	468	466	472	472	480
16	480	482	479	483	483	483	488	483	484	486	487	488	493	490	495	488	482	474	464	459	459	464	466	471	480
17 D	471	483	487	482	484	487	488	488	484	501	487	483	487	491	484	510	475	438	417	446	443	440	439	446	473
18	465	469	475	471	479	473	464	469	474	474	475	479	478	479	479	476	474	469	458	456	460	453	461	478	470
19	458	458	463	472	475	475	476	478	480	482	484	484	483	479	480	481	483	476	476	469	465	458	461	469	474
20	477	471	466	466	469	464	465	471	478	478	482	482	486	485	484	486	484	481	472	468	463	460	457	474	478
21	468	478	484	490	479	475	473	477	478	481	483	484	490	488	490	492	483	473	476	470	460	460	467	474	478
22 Q	480	485	489	490	487	489	491	486	486	484	485	488	492	496	496	493	488	478	471	464	455	448	451	470	481
23	484	490	491	486	489	492	491	490	491	493	494	496	498	498	493	496	498	492	475	463	455	453	458	466	485
24 D	473	479	478	480	485	482	483	479	466	455	418	435	467	470	427	441	466	454	440	443	429	431	436	452	457
25 D	459	452	437	448	466	466	468	460	468	476	474	474	472	472	463	474	477	465	460	449	438	441	453	462	461
26	465	469	477	479	477	478	489	479	482	480	481	481	483	482	478	478	477	473	459	444	446	448	452	463	472
27 Q	473	481	484	484	484	484	481	482	480	482	481	485	488	485	486	483	477	464	448	453	458	464	463	471	476
28	476	476	481	486	485	475	473	477	468	484	483	481	482	483	481	479	477	466	455	448	452	458	467	475	474
29 Q	485	490	493	493	494	494	496	494	494	493	496	495	497	498	497	494	481	465	455	450	454	462	470	483	484
MEAN	479	481	482	481	483	482	481	481	481	483	482	483	487	488	486	487	485	476	468	462	459	459	464	472	478

DECLINATION

MEAN VALUES FOR PERIODS OF SIXTY MINUTES, UNIVERSAL TIME

TABLE 5 VICTORIA

D = 22 DEG 00.0 MIN EAST +

FEBRUARY 1972

HOUR =	00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23	MEAN
TO	TO	TO	TO	TO	TO	TO	TO	TO	TO	TO	TO	TO	TO	TO	TO	TO	TO	TO	TO	TO	TO	TO	TO	TO	
	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	
DAY																									
1	19.0	19.8	20.4	20.6	20.6	20.5	20.3	20.7	20.4	19.7	20.3	21.5	19.4	24.3	23.7	23.7	24.2	23.6	22.7	21.5	20.7	19.2	17.5	17.1	20.9
2	17.5	19.1	19.3	19.1	19.1	19.3	22.9	22.1	22.3	18.3	23.2	21.2	17.4	20.0	19.9	21.9	23.0	23.2	23.4	21.5	20.5	19.3	17.6	17.9	20.4
3	17.8	19.2	20.2	21.2	20.4	20.6	20.4	20.4	20.9	22.4	22.8	21.3	22.1	21.7	24.5	25.2	24.0	22.3	23.2	22.8	20.8	19.2	18.4	17.4	21.2
4	18.0	19.1	19.8	19.9	20.4	21.6	22.0	25.5	21.7	19.6	21.2	23.0	21.0	22.3	18.5	20.9	22.3	23.6	23.0	22.3	21.2	19.3	17.9	17.4	20.9
5	23.9	19.9	19.8	20.1	21.2	20.5	20.5	20.6	22.6	20.7	21.7	21.2	22.7	21.6	20.8	22.2	24.9	25.0	21.9	20.3	20.5	18.8	17.3	17.6	21.1
6	17.8	19.1	19.4	19.7	20.3	20.1	21.0	20.5	20.8	20.9	21.1	20.1	20.2	20.3	20.5	21.0	22.5	24.9	24.8	21.9	18.4	16.7	15.5	15.7	20.1
7	16.1	17.9	19.4	20.4	21.1	20.9	22.6	20.5	20.6	20.1	20.7	20.5	20.5	20.9	21.2	21.4	24.1	25.7	23.8	20.8	19.8	17.4	14.4	14.9	20.2
8	16.8	17.4	17.4	16.9	20.3	20.8	20.9	20.8	20.4	20.6	21.0	21.0	20.8	20.7	20.5	21.1	22.3	23.2	23.8	22.6	21.6	19.3	17.7	16.9	20.2
9 Q	18.2	19.6	19.8	20.0	20.1	20.4	20.0	19.6	20.3	20.2	19.3	19.9	20.5	20.9	20.5	21.4	23.5	24.1	24.3	22.8	19.8	18.1	17.0	16.2	20.3
10	16.7	16.5	18.0	19.7	20.3	20.5	21.0	20.7	20.1	20.9	20.1	20.2	20.5	20.1	20.2	21.0	22.7	24.4	22.1	22.6	19.5	17.7	16.8	17.2	20.0
11	18.0	18.0	19.5	19.9	19.6	19.7	20.3	19.9	19.5	20.7	21.0	21.8	19.4	18.6	20.7	21.8	22.6	22.3	22.1	21.2	19.5	18.7	17.5	17.8	20.0
12 Q	18.8	19.0	19.9	20.2	19.9	19.8	20.1	19.8	20.6	20.1	20.1	19.9	20.4	20.2	21.1	21.9	23.8	25.2	25.0	23.7	21.0	19.0	18.0	17.5	20.6
13 D	17.8	19.0	19.7	20.0	20.1	19.6	19.4	19.1	19.3	19.7	19.8	16.6	24.0	23.0	23.7	23.4	22.2	18.5	18.2	17.0	18.0	16.9	16.8	16.0	19.5
14 D	17.8	20.3	21.1	22.0	24.6	21.9	24.3	23.2	18.8	18.4	17.3	19.4	21.2	21.2	21.0	21.0	21.7	21.9	21.9	21.1	20.0	18.8	18.2	17.5	20.6
15	19.6	19.7	19.7	20.4	21.4	31.7	22.9	19.1	19.0	19.6	19.8	21.9	22.4	19.9	20.3	21.6	23.0	23.6	22.1	20.9	19.9	18.9	17.4	17.4	20.9
16	18.6	19.5	20.7	22.0	20.8	20.6	19.3	19.7	18.8	19.2	19.5	19.1	18.1	18.6	20.7	21.3	22.5	24.2	22.9	20.5	19.7	18.1	17.4	16.9	19.9
17 D	17.7	18.3	19.6	20.8	21.3	19.8	20.0	19.6	19.8	18.3	21.1	22.7	19.8	16.5	11.4	11.5	19.3	21.0	15.8	11.8	15.0	17.2	16.4	16.6	18.0
18	17.5	17.6	16.6	19.3	19.1	19.4	23.2	20.5	19.2	19.7	20.4	20.4	20.9	21.1	21.4	22.9	24.2	24.9	23.6	20.5	18.6	16.4	14.8	11.7	19.7
19	12.3	16.2	19.9	21.0	20.2	20.3	20.7	20.7	20.2	20.6	20.7	20.7	21.4	21.5	19.6	23.3	24.4	25.9	19.5	19.2	18.4	18.0	17.8	18.0	20.0
20	18.5	19.6	22.5	19.4	20.4	21.4	21.2	20.6	20.3	19.5	21.4	20.4	18.2	20.3	21.2	22.9	22.9	24.6	25.2	23.7	22.2	20.9	20.1	18.2	21.1
21	18.8	17.7	18.5	19.0	20.5	22.3	20.8	20.3	20.1	19.8	20.1	19.5	20.2	21.6	21.2	22.0	23.6	22.5	22.8	22.6	20.4	19.0	18.1	17.4	20.4
22 Q	17.6	18.1	18.9	19.1	19.2	19.7	20.6	19.2	20.1	20.1	20.8	21.1	21.6	21.7	21.4	22.5	23.3	24.3	24.6	23.8	22.2	19.5	18.1	17.3	20.6
23	17.5	17.8	18.5	19.1	19.8	19.8	19.7	19.9	20.1	19.7	20.2	18.9	20.3	20.9	20.2	21.0	25.4	26.6	24.9	25.0	22.8	20.8	18.8	17.2	20.6
24 D	16.6	16.6	18.0	18.3	19.4	21.1	24.5	23.0	27.2	29.8	36.2	41.5	30.1	22.5	18.4	13.2	24.2	26.6	25.6	21.9	20.4	18.7	18.5	16.3	22.9
25 D	17.4	16.3	20.2	19.5	20.2	20.8	21.2	24.4	21.6	20.2	20.5	21.5	17.2	21.0	16.9	18.9	24.7	24.4	24.1	21.7	19.9	17.7	17.0	16.9	20.2
26	18.1	19.0	19.6	19.5	20.1	21.1	20.3	19.5	20.0	19.7	19.9	20.6	20.8	21.0	21.7	22.4	24.1	24.3	24.8	22.8	21.1	20.0	18.7	18.0	20.7
27 Q	18.0	17.9	19.3	19.2	19.5	19.2	19.7	19.5	19.9	19.8	19.1	20.9	20.5	21.4	22.2	23.0	23.6	24.3	21.9	17.8	16.3	15.5	14.8	14.2	19.4
28	14.6	16.1	17.6	19.1	21.7	19.0	20.1	21.6	20.8	20.9	20.0	20.5	20.7	21.1	21.9	23.2	24.6	25.3	23.8	21.1	19.2	18.1	18.1	17.8	20.3
29 Q	18.5	18.3	19.7	19.2	19.4	19.1	19.2	19.5	19.1	19.3	19.6	19.8	19.8	20.5	21.1	22.9	24.9	25.3	23.3	19.4	17.5	16.9	16.8	17.4	19.8
MEAN	17.8	18.4	19.3	19.8	20.4	20.7	21.0	20.7	20.5	20.3	21.0	21.3	20.8	20.9	20.6	21.4	23.4	24.0	22.9	21.2	19.8	18.4	17.4	16.8	20.4

VERTICAL INTENSITY

MEAN VALUES FOR PERIODS OF SIXTY MINUTES, UNIVERSAL TIME

TABLE 6 VICTORIA

Z = 53,000 GAMMA +

FEBRUARY 1972

DAY	00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	MEAN
1	100	100	100	99	99	100	100	103	102	101	102	98	85	73	83	91	98	99	99	96	98	97	97	98	97	97
2	100	100	101	102	106	111	116	114	107	97	101	104	98	95	97	99	98	99	98	98	98	95	95	95	95	101
3	98	102	101	101	100	101	100	100	100	98	95	98	93	83	88	91	92	95	92	94	93	94	99	100	96	
4	101	99	99	103	106	104	102	98	99	97	84	81	88	94	94	97	99	97	97	96	96	95	97	97	97	97
5	100	100	99	99	98	97	98	98	98	98	97	94	94	97	97	97	97	94	92	90	93	89	89	94	96	
6	100	101	101	98	101	99	100	100	102	101	100	99	98	97	96	98	99	96	95	90	91	91	92	94	97	
7	98	101	101	100	100	99	100	99	97	98	98	96	96	96	95	96	96	93	87	86	86	84	86	90	95	
8	99	102	103	105	106	105	100	99	98	97	95	93	91	94	94	97	97	95	93	90	91	90	91	93	97	
9 Q	97	98	98	98	97	97	98	96	95	95	94	95	96	95	96	98	101	98	95	90	89	87	91	94	95	
10	96	95	97	97	98	95	96	97	93	95	96	97	97	96	94	97	98	97	91	85	83	77	83	90	93	
11	93	95	93	94	93	92	94	96	94	88	86	87	92	91	95	96	97	95	94	90	87	88	90	93	92	
12 Q	94	95	95	96	97	96	96	96	94	93	93	94	93	94	93	94	97	101	101	100	94	91	86	90	91	95
13 D	92	91	91	91	91	91	92	91	90	91	91	68	40	60	80	90	91	89	94	96	99	99	96	99	88	
14 D	108	108	107	106	109	104	103	101	94	90	87	89	92	93	94	94	96	93	92	91	91	90	90	90	96	
15	96	98	97	97	99	97	95	95	86	85	85	86	90	89	92	94	97	94	90	89	91	89	87	88	92	
16	91	95	95	97	97	96	93	93	93	93	92	91	87	85	87	89	93	89	82	81	84	86	88	90	90	
17 D	92	94	95	95	96	96	95	94	93	87	74	82	84	72	44	31	41	50	50	63	76	85	94	103	79	
18	108	109	108	111	112	112	119	113	108	105	101	101	98	97	96	96	95	89	80	81	84	86	93	98	100	
19	107	119	114	107	104	102	102	102	103	101	101	99	97	95	88	89	91	87	80	79	84	88	93	99	97	
20	101	100	104	105	106	104	107	107	104	99	97	97	92	92	95	95	98	97	92	87	84	85	89	90	97	
21	98	101	101	100	100	102	102	99	98	99	99	97	90	90	95	96	96	93	89	87	87	91	95	96	96	
22 Q	98	99	99	98	96	95	96	94	95	94	95	95	95	94	95	98	97	96	97	96	94	94	93	97	96	
23	99	98	98	96	94	95	94	92	91	91	90	89	86	88	88	90	92	89	85	83	83	83	85	88	90	
24 D	93	98	99	99	100	99	99	93	77	48	27	-20	-54	-10	-5	0	65	89	83	82	86	95	104	104	65	
25 D	106	108	112	123	116	111	108	110	109	104	101	99	94	88	82	78	90	88	92	89	87	92	94	99	99	
26	100	103	105	102	102	102	97	95	95	96	98	96	96	96	97	99	101	99	97	95	96	95	96	94	98	
27 Q	97	98	99	99	99	99	97	98	97	97	95	92	91	89	94	98	95	92	84	84	85	86	87	89	93	
28	92	98	101	104	106	107	110	108	105	106	101	97	96	95	95	100	101	99	94	89	89	89	91	91	99	
29 Q	92	93	95	97	95	96	94	95	93	92	91	90	90	90	91	98	100	97	90	86	85	84	86	90	92	
MEAN	98	100	100	101	101	100	100	99	97	94	92	89	86	86	87	89	94	93	90	88	89	89	92	94	94	

HORIZONTAL INTENSITY

MEAN VALUES FOR PERIODS OF SIXTY MINUTES, UNIVERSAL TIME

TABLE 7 VICTORIA		H = 18,500 GAMMA +																				MARCH		1972	
HOUR =	00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23	MEAN
	TO	TO	TO	TO	TO	TO	TO	TO	TO	TO	TO	TO	TO	TO	TO	TO	TO	TO	TO	TO	TO	TO	TO	TO	
	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	
DAY																									
1	490	496	498	496	493	485	493	494	498	497	496	495	497	499	499	496	490	475	457	444	431	438	461	474	483
2	484	486	486	482	484	489	490	489	490	485	487	485	501	493	489	480	471	467	459	450	447	456	460	461	478
3	466	474	485	485	488	482	469	463	478	489	486	483	481	491	489	468	482	475	459	448	449	455	457	470	474
4	480	483	487	488	486	482	476	489	475	497	490	486	487	494	491	493	489	475	460	455	455	461	467	472	480
5	484	487	490	489	491	490	492	490	492	498	493	493	490	494	494	486	478	462	465	465	467	471	477	485	
6	505	480	488	489	483	495	485	492	489	500	493	493	492	493	495	494	490	478	468	466	468	473	478	520	488
7 D	463	441	453	475	463	433	427	453	483	497	478	483	471	473	479	482	489	469	453	451	451	446	453	461	464
8	463	466	475	474	477	474	479	482	487	487	487	487	493	491	491	495	479	496	483	464	455	450	456	463	477
9	480	484	483	488	489	486	479	488	489	490	482	489	481	483	487	484	474	478	477	468	463	466	463	468	480
10 Q	474	480	484	488	488	488	487	490	489	490	486	487	488	491	493	492	486	476	467	463	460	463	461	469	481
11	480	487	479	483	479	479	477	476	480	482	486	484	486	487	489	490	486	481	464	456	462	461	464	471	478
12 Q	482	487	492	493	493	493	493	489	494	493	496	496	496	494	495	489	476	463	459	459	462	464	466	484	
13	477	491	498	495	492	494	491	490	490	495	500	498	494	497	494	496	491	480	466	459	451	452	462	472	484
14 Q	479	489	493	496	493	494	489	488	495	499	495	498	496	500	499	496	487	480	473	472	472	479	487	494	489
15	498	502	499	497	496	498	498	501	497	499	502	504	502	504	499	495	489	480	469	465	471	482	490	496	493
16 D	487	463	460	447	446	459	473	470	469	469	482	491	480	483	475	464	462	460	458	455	463	465	479	483	468
17	476	471	482	483	471	476	484	486	488	488	480	488	486	483	476	476	478	482	467	450	434	432	447	467	473
18	470	468	475	481	481	477	494	473	480	483	487	487	492	493	492	483	471	467	461	459	462	465	463	475	477
19 Q	482	486	480	484	487	486	488	491	492	490	491	491	494	496	494	489	478	465	460	461	455	455	467	482	481
20	481	482	484	487	489	493	490	491	496	493	495	495	498	497	497	493	487	481	468	462	460	460	467	479	484
21 Q	487	489	493	491	493	490	491	497	496	497	498	496	498	496	495	494	490	485	481	481	481	484	487	494	491
22	540	487	487	483	485	491	489	490	492	497	502	503	505	503	498	496	488	483	470	462	460	464	466	475	488
23	481	490	491	495	498	498	501	504	503	498	496	490	490	495	497	494	493	488	476	460	444	446	464	473	486
24 D	474	482	475	458	448	454	472	473	474	475	486	489	489	494	488	483	465	473	461	457	457	470	469	477	473
25	475	484	491	489	489	487	481	474	475	487	486	489	488	488	486	480	475	471	464	464	468	465	468	476	479
26	479	483	487	485	482	487	487	490	489	483	487	498	494	495	494	488	485	489	473	468	463	463	458	458	482
27	463	480	477	472	467	478	486	487	490	497	502	504	507	507	509	504	497	487	470	458	456	461	472	459	483
28	463	461	459	459	462	474	478	482	490	495	501	504	503	505	505	504	500	492	479	466	461	474	483	492	483
29 D	493	500	504	504	505	503	494	494	497	497	497	478	488	492	489	478	463	477	470	448	427	449	450	466	482
30 D	479	468	467	465	453	443	449	437	458	484	481	484	494	484	474	472	482	471	458	438	448	459	469	479	467
31	482	482	481	483	479	478	496	489	487	491	496	498	499	500	499	487	470	461	442	445	461	467	453	475	479
MEAN	481	481	483	483	482	482	483	484	487	491	491	492	492	493	492	488	483	477	466	459	457	461	466	476	480

DECLINATION

MEAN VALUES FOR PERIODS OF SIXTY MINUTES, UNIVERSAL TIME

TABLE 8 VICTORIA

D = 22 DEG 00.0 MIN EAST +

MARCH 1972

HOUR =	00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23	MEAN
	TO 01	TO 02	TO 03	TO 04	TO 05	TO 06	TO 07	TO 08	TO 09	TO 10	TO 11	TO 12	TO 13	TO 14	TO 15	TO 16	TO 17	TO 18	TO 19	TO 20	TO 21	TO 22	TO 23	TO 24	
DAY																									
1	17.6	18.0	18.9	19.1	19.2	19.4	19.7	19.4	19.3	20.3	21.4	20.8	21.2	19.6	22.0	25.4	28.5	27.4	26.2	22.9	20.2	15.7	15.2	16.4	20.6
2	16.8	17.5	17.7	17.8	18.4	20.0	19.9	19.6	19.5	21.1	21.5	20.0	19.4	22.6	23.4	25.7	25.2	25.6	22.3	19.8	17.2	15.8	13.6	12.1	19.7
3	11.8	14.0	16.8	18.9	19.9	20.0	23.6	24.1	19.7	21.5	19.7	20.5	18.2	20.4	21.9	16.6	25.7	28.1	25.8	21.9	20.1	17.7	17.4	16.1	20.0
4	16.7	17.2	19.0	19.6	19.8	20.2	21.1	22.1	22.3	23.3	21.3	20.8	20.5	21.5	22.4	24.3	26.3	26.5	25.5	22.4	19.8	17.7	16.3	16.3	21.0
5	16.9	17.5	18.0	18.8	19.7	20.4	20.3	20.2	20.3	21.2	20.8	20.5	20.5	20.7	22.3	23.6	25.3	26.9	25.0	21.6	19.2	17.1	15.8	14.5	20.3
6	14.8	15.2	16.5	18.6	20.1	23.4	20.1	20.9	20.4	17.7	21.7	21.1	20.9	20.8	20.7	22.4	23.7	24.1	22.3	20.2	17.7	19.3	14.5	9.2	19.4
7 D	8.2	15.3	18.8	19.5	18.3	24.2	24.1	23.0	24.0	20.8	20.2	21.1	21.6	19.0	20.4	21.7	23.0	24.4	23.5	21.7	19.7	18.2	16.9	17.1	20.2
8	17.9	18.9	19.5	19.8	20.1	20.5	20.3	20.3	19.8	20.2	20.4	19.9	19.6	19.1	18.8	17.1	11.8	21.2	24.1	24.1	21.7	19.8	18.4	17.0	19.6
9	16.8	18.9	18.6	19.5	19.7	20.6	21.0	20.3	20.5	21.6	23.2	24.3	23.2	16.1	19.3	22.0	20.3	20.4	22.2	20.8	19.7	19.3	18.6	18.8	20.2
10 Q	19.7	19.2	19.3	19.7	19.6	19.6	19.4	19.4	18.0	18.7	18.7	19.0	19.1	20.0	20.7	22.3	24.6	25.8	24.8	22.1	20.4	18.5	18.3	17.3	20.2
11	18.9	20.7	20.4	19.1	20.9	19.9	20.2	21.1	20.2	19.6	19.1	19.4	19.7	19.5	20.6	22.0	24.1	25.7	25.1	22.5	21.2	20.5	18.0	17.4	20.7
12 Q	17.8	18.3	18.4	19.3	19.4	19.7	19.8	19.7	19.5	19.6	19.7	19.6	19.7	19.4	20.6	22.6	25.4	26.6	25.9	24.0	21.9	20.1	18.5	17.3	20.5
13	17.2	17.6	17.8	18.9	19.1	19.5	20.0	20.0	19.6	19.7	20.0	19.6	21.5	20.7	20.6	23.5	25.2	26.6	25.5	23.6	21.4	18.7	16.3	15.7	20.3
14 Q	17.2	17.8	18.4	19.0	19.2	19.6	20.0	20.9	18.8	20.9	20.8	20.5	20.9	21.6	21.9	23.7	24.3	24.2	22.8	20.8	19.4	18.5	17.7	17.4	20.3
15	17.0	17.1	18.0	18.8	19.3	19.0	19.2	19.3	20.0	20.7	18.9	19.7	20.6	20.7	21.0	22.6	25.3	25.7	23.3	19.3	17.1	17.1	16.3	15.8	19.7
16 D	14.8	16.8	14.1	14.4	15.4	20.0	19.4	18.5	19.4	20.8	24.1	26.0	25.9	24.4	21.5	22.7	23.3	23.0	20.4	18.0	16.8	15.5	15.4	14.1	19.4
17	16.0	17.9	18.7	18.1	20.0	19.0	19.2	19.1	18.7	19.9	24.3	25.0	19.9	21.8	19.8	21.8	22.2	22.2	22.8	20.8	19.8	18.4	17.3	17.0	20.0
18	15.9	18.9	17.6	17.6	18.2	22.2	23.9	21.0	20.8	20.8	20.1	20.1	19.7	20.6	22.3	24.4	25.9	24.7	22.0	19.5	17.9	16.7	16.5	16.0	20.1
19 Q	16.7	17.2	19.1	18.7	18.9	19.2	19.1	19.2	19.1	19.9	21.2	20.6	18.7	20.3	21.7	23.3	25.0	25.5	22.9	19.7	18.1	16.2	15.4	14.7	19.6
20	15.4	16.3	17.3	18.6	19.2	19.7	19.7	20.4	20.8	20.6	20.5	20.6	20.4	19.4	19.8	22.0	24.0	24.3	24.5	23.0	20.5	18.6	17.4	16.8	20.0
21 Q	16.6	17.5	17.4	18.5	19.2	19.3	19.8	19.8	19.9	20.0	21.0	20.6	21.3	20.7	21.6	22.5	24.8	25.0	23.5	21.2	18.3	15.7	14.7	14.2	19.7
22	15.0	16.4	16.4	17.6	19.1	19.8	20.2	20.4	19.7	20.6	20.0	19.4	19.9	19.2	19.4	21.4	22.6	23.6	22.6	19.6	15.1	14.7	15.9	16.2	18.9
23	16.2	17.1	17.7	18.2	18.3	18.8	18.9	19.4	19.6	21.4	25.5	28.4	25.1	23.0	23.0	23.9	24.8	24.8	22.6	19.2	16.1	13.6	13.6	13.9	20.1
24 D	12.1	12.8	13.5	16.2	16.9	21.3	23.3	23.1	23.3	22.5	27.6	26.1	20.7	19.8	21.1	26.0	22.7	20.8	18.5	16.9	18.7	18.7	18.1	17.3	19.9
25	17.4	17.9	18.3	18.3	22.7	21.2	20.3	20.8	23.4	21.3	20.8	20.7	21.0	21.4	21.4	22.3	21.4	21.9	19.1	17.9	18.0	17.8	16.9	16.9	20.0
26	17.1	16.9	17.6	18.2	18.5	18.5	19.1	19.5	20.5	21.6	22.7	24.2	22.9	22.0	21.3	22.6	23.0	21.1	21.8	18.2	17.1	17.3	15.1	12.5	19.6
27	13.6	13.9	13.4	11.7	17.5	18.8	19.1	21.8	24.5	23.9	20.5	21.2	21.0	21.7	21.7	23.9	26.4	25.8	20.4	19.1	16.6	15.6	15.6	14.4	19.3
28	17.4	19.6	20.7	22.2	24.1	23.2	22.2	21.8	20.1	20.7	19.3	19.4	18.2	19.4	20.4	21.2	22.8	23.7	23.2	21.3	19.5	17.7	16.1	15.7	20.4
29 D	16.4	16.6	17.4	18.2	18.4	18.1	17.8	19.2	14.3	22.0	23.6	22.9	22.4	23.1	23.1	21.6	15.8	17.3	19.0	18.5	17.4	14.4	11.6	13.9	18.5
30 D	14.4	15.2	19.5	20.8	21.1	25.0	26.0	26.0	26.3	21.1	20.1	18.4	23.0	25.7	24.3	23.7	24.8	21.5	21.0	18.3	16.2	14.5	14.8	14.3	20.7
31	13.6	13.0	15.0	20.2	16.2	18.3	23.0	19.5	19.4	18.0	16.3	19.0	20.8	21.3	23.5	25.6	25.7	25.6	25.6	19.7	17.2	15.5	14.8	15.1	19.2
MEAN	15.9	17.0	17.7	18.5	19.2	20.3	20.6	20.6	20.4	20.7	21.1	21.3	20.9	20.8	21.4	22.0	23.7	24.2	23.0	20.6	18.7	17.3	16.2	15.5	19.9

VERTICAL INTENSITY

MEAN VALUES FOR PERIODS OF SIXTY MINUTES, UNIVERSAL TIME

TABLE 9 VICTORIA		Z = 53.000 GAMMA +																				MARCH		1972	
HOUR =	00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23	MEAN
	TO	TO	TO	TO	TO	TO	TO	TO	TO	TO	TO	TO	TO	TO	TO	TO	TO	TO	TO	TO	TO	TO	TO	TO	
	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	
DAY																									
1	91	91	91	90	91	91	93	93	92	90	88	88	89	89	90	94	97	93	87	82	79	80	86	91	89
2	93	94	95	95	98	98	98	98	98	99	97	95	79	82	91	99	91	84	76	73	76	83	87	95	91
3	102	101	103	103	101	102	101	96	65	65	85	92	89	91	91	76	80	87	82	81	86	93	95	96	90
4	99	98	101	98	97	97	98	86	85	77	71	83	89	93	90	93	91	91	84	79	81	88	92	93	90
5	97	98	97	97	95	95	95	94	93	88	86	88	90	91	92	93	91	88	80	77	79	81	85	89	90
6	91	97	98	98	98	99	95	97	97	81	76	84	89	91	92	94	95	86	76	75	76	74	79	92	89
7 D	124	117	108	108	106	122	128	102	111	100	99	91	86	93	97	97	95	96	89	85	81	87	93	97	101
8	99	102	104	101	99	98	96	97	96	94	95	95	95	94	95	95	77	78	77	74	76	82	89	94	92
9	98	98	95	95	96	96	94	94	92	89	79	63	72	78	79	89	88	83	79	79	84	93	93	93	87
10 Q	94	94	96	96	96	93	92	93	90	91	91	92	92	93	95	98	100	99	95	91	89	89	90	96	94
11	101	105	102	104	105	103	101	102	101	99	97	97	98	97	100	101	101	101	93	87	89	89	90	91	98
12 Q	94	93	96	98	96	96	95	93	92	92	91	92	91	91	92	95	98	91	86	83	82	83	85	88	92
13	93	96	98	96	95	95	93	93	92	92	89	77	77	88	92	96	99	95	86	81	77	78	83	89	90
14 Q	90	94	95	95	93	94	94	94	91	83	87	87	88	89	90	92	90	87	80	77	75	77	79	81	88
15	86	88	89	90	90	91	92	91	90	89	89	82	81	83	87	90	93	87	80	79	79	78	79	80	86
16 D	84	95	115	136	159	150	133	120	115	110	104	74	59	60	77	91	93	92	88	86	89	90	96	101	101
17	103	106	107	103	109	109	107	106	105	87	76	83	84	91	86	86	82	82	80	87	92	98	98	102	95
18	105	110	107	107	107	107	106	95	102	99	97	95	92	93	95	93	93	86	83	84	87	86	86	89	96
19 Q	92	96	99	98	97	97	98	97	98	97	95	95	90	88	88	92	91	86	84	85	86	86	90	96	93
20	95	97	97	99	97	97	95	98	94	95	95	94	94	90	87	91	88	80	76	75	76	82	87	89	90
21 Q	93	94	98	98	96	96	97	97	95	96	92	89	87	87	87	88	86	79	74	73	75	77	79	79	88
22	87	89	96	96	97	96	95	92	93	92	92	90	91	89	94	92	87	76	73	78	85	90	91	90	
23	92	96	94	93	91	90	90	91	89	88	77	64	73	83	90	93	91	79	72	70	69	77	87	89	85
24 D	91	102	111	128	151	148	138	121	111	101	88	86	79	79	86	88	82	80	82	85	86	92	90	91	100
25	93	98	100	101	100	97	99	100	95	98	95	93	92	93	91	89	90	88	82	86	91	94	94	96	94
26	95	94	98	97	99	100	98	99	95	96	96	91	87	88	90	90	90	87	79	85	89	89	92	95	92
27	106	113	116	123	128	122	117	111	104	101	100	99	96	96	95	97	96	89	86	87	94	98	104	102	103
28	113	118	117	116	112	106	102	99	91	89	90	89	91	89	90	95	96	97	95	95	97	94	89	88	98
29 D	87	92	90	92	91	92	93	98	89	76	81	51	59	82	87	85	68	68	73	74	76	92	93	113	83
30 D	117	127	133	129	129	136	121	86	95	106	99	87	68	78	85	88	87	84	82	79	82	90	97	101	99
31	105	104	105	112	111	115	108	97	99	97	83	82	88	91	90	89	89	85	84	89	89	89	90	98	95
MEAN	97	100	102	103	104	104	102	98	95	92	90	86	85	88	90	92	90	87	82	81	83	86	89	93	92

HORIZONTAL INTENSITY

MEAN VALUES FOR PERIODS OF SIXTY MINUTES. UNIVERSAL TIME

TABLE 10 VICTORIA

H = 18.500 GAMMA +

APRIL

1972

DAY	00		01		02		03		04		05		06		07		08		09		10		11		12		13		14		15		16		17		18		19		20		21		22		23		MEAN
	TO	01	TO	02	TO	03	TO	04	TO	05	TO	06	TO	07	TO	08	TO	09	TO	10	TO	11	TO	12	TO	13	TO	14	TO	15	TO	16	TO	17	TO	18	TO	19	TO	20	TO	21	TO	22	TO	23	TO	24	
1	486	494	489	491	491	491	489	514	487	493	491	494	497	491	496	498	490	471	451	445	448	469	466	466	483																								
2	482	488	480	475	466	485	483	486	490	491	489	492	491	491	489	483	476	462	453	453	452	458	472	483	478																								
3 Q	487	489	492	493	493	492	493	494	497	496	497	501	499	500	502	502	497	487	478	480	481	476	484	491	492																								
4 D	504	516	513	493	495	499	505	500	505	499	498	504	504	506	501	505	505	486	478	480	482	489	492	492	498																								
5	487	491	485	488	488	487	479	490	494	500	499	496	488	491	499	494	486	477	474	471	470	473	481	484	486																								
6	490	489	493	495	494	496	497	497	503	502	497	499	498	496	488	497	487	472	464	464	465	472	482	488	489																								
7	494	494	494	498	489	492	491	494	503	492	488	490	492	492	491	495	486	478	470	469	465	471	464	474	486																								
8	487	497	497	499	495	495	498	500	503	502	501	501	504	505	506	499	489	460	461	470	476	477	481	492	491																								
9 Q	480	484	493	498	497	498	499	499	503	502	505	507	507	503	499	493	487	478	480	483	482	481	481	485	493																								
10	490	496	500	500	500	498	500	502	505	505	506	508	505	504	501	490	476	473	478	484	485	484	489	495																									
11	491	497	496	491	495	497	489	488	489	490	493	496	494	492	492	482	469	461	465	474	476	476	479	481	486																								
12	487	492	502	493	500	498	502	499	503	504	506	509	502	500	499	489	484	484	473	465	461	467	485	480	491																								
13	486	490	487	482	487	491	487	484	491	491	496	495	494	496	495	490	485	472	472	460	452	459	464	473	482																								
14	492	492	492	485	486	484	481	483	501	497	495	493	492	494	495	493	484	475	470	462	453	457	468	478	483																								
15	484	490	497	497	500	496	493	501	495	494	500	495	501	499	495	497	499	490	478	472	473	470	479	484	491																								
16	488	493	498	491	493	495	497	492	496	500	502	499	499	496	500	499	494	479	476	469	470	472	478	496	491																								
17	497	489	494	500	500	499	493	490	493	497	498	501	502	500	500	497	491	485	481	481	485	482	487	482	493																								
18 D	488	494	497	466	467	472	479	481	485	484	476	465	488	486	481	472	463	457	456	466	481	484	488	486	478																								
19	491	495	496	493	500	500	504	504	502	507	498	490	500	494	490	489	490	489	483	481	473	473	476	485	492																								
20	491	494	496	497	496	498	500	501	503	503	502	507	504	500	503	494	489	472	460	464	474	470	476	493	491																								
21 D	489	470	484	476	464	472	476	476	480	478	484	495	493	491	486	470	458	455	455	463	477	480	483	488	477																								
22	490	493	494	491	490	491	491	494	494	495	498	493	497	504	510	504	492	466	460	474	476	475	467	478	488																								
23	480	493	492	491	491	490	456	497	512	499	511	507	502	499	499	494	481	462	457	465	474	478	471	478	488																								
24 Q	487	488	492	491	492	490	494	495	502	505	505	510	512	509	509	492	478	469	475	486	495	499	494	490	494																								
25 Q	494	494	497	495	498	499	500	502	504	508	512	511	510	509	506	498	488	480	477	482	494	499	505	502	499																								
26 Q	500	503	505	506	507	507	507	511	515	514	514	514	517	516	512	509	498	486	475	476	481	492	504	508	508	503																							
27	510	512	509	509	510	512	512	515	513	515	516	518	517	527	523	500	463	459	473	478	480	483	497	505	502																								
28 D	503	475	488	486	481	488	498	485	473	468	466	479	487	489	467	455	434	462	471	456	468	481	492	496	477																								
29 D	498	509	500	497	480	465	473	450	446	456	453	463	447	479	492	472	486	470	445	430	435	443	462	468	467																								
30	491	471	478	472	479	477	485	486	492	500	486	490	486	485	475	483	482	476	470	458	459	467	469	480	479																								
MEAN	491	492	494	491	491	492	493	494	496	496	456	497	498	498	497	491	483	473	469	469	472	476	481	486	488																								

DECLINATION

MEAN VALUES FOR PERIODS OF SIXTY MINUTES, UNIVERSAL TIME

TABLE 11 VICTORIA			D = 22 DEG 00.0 MIN EAST +																				APRIL 1972		
HCUR =	00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23	MEAN
TO	TO	TO	TO	TO	TO	TO	TO	TO	TO	TO	TO	TO	TO	TO	TO	TO	TO	TO	TO	TO	TO	TO	TO	TO	
	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	
DAY																									
1	16.4	17.7	18.1	18.0	18.9	19.1	20.1	26.6	23.6	23.4	21.9	21.1	22.0	20.3	22.7	25.9	26.2	25.9	23.1	17.3	15.3	12.5	11.3	13.5	20.0
2	16.0	16.4	16.7	19.7	25.4	24.5	19.2	19.9	18.9	18.7	20.3	19.9	20.4	20.9	22.0	23.1	24.8	24.4	22.2	20.1	18.3	16.5	15.1	15.1	19.9
3 Q	15.5	17.1	18.2	18.8	18.8	19.1	19.1	19.9	19.5	19.4	19.3	20.0	20.3	21.3	22.2	23.7	25.1	25.4	23.6	21.1	18.5	16.2	14.4	15.1	19.6
4 D	14.5	14.0	14.5	18.3	19.6	18.9	18.9	19.7	20.6	20.3	19.5	19.7	19.9	19.5	15.1	15.3	21.8	22.4	21.3	19.5	17.4	16.4	17.1	17.8	18.4
5	17.7	18.1	19.0	20.1	21.7	28.6	24.5	20.1	19.5	19.7	20.0	19.5	15.1	17.3	21.9	23.6	24.5	24.9	22.9	19.8	17.9	16.7	15.9	15.7	20.2
6	16.1	17.4	18.5	19.4	19.8	19.5	20.1	20.5	19.0	20.2	19.9	18.2	21.0	20.5	19.7	22.4	24.3	24.6	22.9	20.3	17.3	15.7	14.9	15.4	19.5
7	16.7	17.5	18.4	19.4	21.2	20.3	19.8	19.8	18.3	21.8	22.7	21.7	20.5	15.2	18.1	21.5	23.8	23.3	22.4	20.6	19.3	17.3	15.8	15.4	19.6
8	15.4	16.5	18.4	18.7	19.5	19.0	18.7	19.3	19.7	19.9	19.9	19.9	20.5	21.0	22.5	24.7	26.5	27.0	20.6	18.0	16.6	15.6	15.2	14.1	19.5
9 Q	16.5	17.4	18.2	18.5	18.7	18.8	19.2	19.1	19.5	19.5	19.3	19.1	19.1	20.6	22.1	22.7	23.4	23.3	21.9	19.7	18.6	18.2	17.3	16.4	19.5
10	16.2	16.4	17.7	18.3	18.5	19.2	19.2	17.9	20.5	19.6	19.8	20.3	20.8	21.5	22.7	23.7	26.1	26.4	23.2	17.8	15.3	16.1	16.3	15.7	19.5
11	17.0	16.7	17.5	19.6	17.8	17.2	17.8	19.6	20.4	20.7	20.9	20.8	21.6	22.4	24.3	25.4	25.3	24.5	21.4	18.8	17.9	16.9	15.5	15.2	19.8
12	15.9	16.0	16.5	17.9	18.4	17.7	18.7	18.8	19.4	20.0	20.7	21.1	22.2	22.9	23.8	25.0	23.7	23.3	23.3	21.1	17.8	14.6	12.8	12.5	19.3
13	13.5	17.4	16.7	17.7	18.9	19.3	21.6	20.9	19.5	18.5	18.1	19.6	19.6	20.7	23.9	24.6	25.8	25.0	23.4	21.0	16.8	13.9	13.2	13.1	19.3
14	13.2	13.9	15.9	17.1	17.8	18.2	18.2	19.5	19.3	20.9	19.2	20.0	21.2	23.3	24.1	24.3	24.3	23.8	23.1	20.2	17.1	14.3	12.3	12.3	18.9
15	14.0	15.9	17.5	17.9	17.9	18.1	17.5	19.8	18.7	18.9	18.5	18.6	19.5	20.9	22.7	22.8	22.1	21.9	21.4	18.1	16.0	14.7	14.0	13.4	18.4
16	13.8	14.5	16.7	18.0	17.7	18.2	18.7	18.4	18.7	18.4	19.0	19.0	19.6	20.2	21.8	22.3	23.8	24.2	23.4	20.6	17.2	15.2	13.8	12.1	18.6
17	12.4	13.5	16.3	17.7	18.0	17.6	17.7	20.3	20.7	20.3	19.9	21.2	22.8	23.0	23.8	25.4	25.7	25.6	24.4	21.5	20.2	17.3	14.6	13.8	19.7
18 D	14.0	15.0	15.5	17.9	17.8	18.9	19.3	18.4	21.7	25.3	29.1	28.6	24.6	25.6	26.6	28.0	24.3	22.8	18.3	15.9	14.6	13.1	12.5	14.1	20.1
19	15.4	16.8	17.7	18.8	19.1	19.5	19.0	19.1	18.8	22.8	19.6	19.5	20.4	25.1	25.2	25.6	25.6	25.0	23.7	21.1	19.8	18.2	17.0	16.3	20.4
20	16.3	16.8	18.0	18.3	18.4	18.4	18.5	18.3	19.0	19.3	19.7	20.3	21.4	20.8	23.6	25.6	26.0	26.0	22.4	17.5	16.0	14.1	11.6	8.6	19.0
21 D	7.0	13.4	14.9	15.4	17.0	20.4	17.2	22.9	21.6	23.6	19.4	24.0	23.5	26.9	25.3	27.0	23.3	20.2	16.3	12.2	13.6	14.0	14.7	15.4	18.7
22	17.1	17.4	18.4	18.7	18.6	18.9	19.2	19.1	19.2	19.5	20.3	20.0	20.5	20.7	21.4	23.5	26.0	26.2	19.8	15.9	15.7	14.1	14.4	14.8	19.1
23	16.6	17.8	18.2	18.1	18.6	18.4	18.5	18.5	19.2	20.1	20.9	21.0	23.5	22.4	21.4	23.2	24.4	22.8	19.1	16.2	15.4	15.0	16.4	17.3	19.3
24 Q	17.9	17.9	18.3	18.7	18.8	18.5	18.7	18.5	19.6	19.8	19.8	20.7	22.4	23.1	24.6	26.4	26.3	24.7	19.9	17.0	16.4	16.2	16.6	16.8	19.9
25 Q	17.0	16.7	17.3	17.6	18.1	17.8	18.1	18.7	19.2	19.5	20.0	20.7	21.6	22.9	24.3	25.5	25.5	24.0	21.3	18.3	16.9	16.3	16.1	16.2	19.6
26 Q	16.6	16.7	17.1	17.4	17.5	18.2	18.6	18.5	19.0	19.4	20.0	20.7	22.0	22.8	24.0	25.1	25.2	23.5	19.7	15.5	14.4	13.6	13.6	14.3	18.9
27	15.4	16.2	17.8	17.7	18.0	17.5	18.0	18.0	18.8	18.9	19.7	19.9	21.1	22.4	25.3	27.0	29.0	23.6	19.0	16.4	14.7	13.1	12.4	13.2	18.9
28 D	13.5	13.7	15.9	17.0	17.2	17.9	17.5	16.7	23.5	26.5	29.3	29.7	26.0	24.0	25.0	23.5	21.6	14.3	16.3	15.2	14.2	14.7	15.6	16.0	19.4
29 D	16.8	17.3	16.7	15.9	15.8	24.2	40.7	30.6	38.1	36.0	32.7	24.9	22.1	22.3	27.9	24.9	22.1	21.0	20.5	19.1	15.8	14.5	14.1	13.2	22.8
30	12.0	15.3	22.3	16.6	17.5	17.7	17.7	18.0	18.9	19.5	19.9	22.3	22.4	26.6	25.0	22.2	21.6	21.0	19.6	17.4	16.3	15.4	14.8	15.3	19.0
MEAN	15.2	16.2	17.4	18.1	18.7	19.3	19.7	19.8	20.4	21.0	21.0	21.1	21.3	21.9	23.1	24.1	24.6	23.7	21.3	18.4	16.7	15.3	14.6	14.6	19.5

VERTICAL INTENSITY

MEAN VALUES FOR PERIODS OF SIXTY MINUTES, UNIVERSAL TIME

TABLE 12 VICTORIA

Z = 53,000 GAMMA +

APRIL 1972

DAY	00		01		02		03		04		05		06		07		08		09		10		11		12		13		14		15		16		17		18		19		20		21		22		23		MEAN
	TO	01	TO	02	TO	03	TO	04	TO	05	TO	06	TO	07	TO	08	TO	09	TO	10	TO	11	TO	12	TO	13	TO	14	TO	15	TO	16	TO	17	TO	18	TO	19	TO	20	TO	21	TO	22	TO	23	TO	24	
1	101	99	97	97	97	98	101	85	71	77	82	88	90	86	84	91	92	87	82	79	83	91	95	109	90																								
2	106	106	107	112	100	100	100	100	100	98	96	91	90	94	94	94	91	84	86	86	88	91	95	97	96																								
3 Q	98	97	97	96	95	95	95	96	96	95	96	95	92	94	93	95	92	88	83	81	77	73	78	82	91																								
4 D	89	91	93	89	93	94	93	94	89	91	91	90	90	84	73	74	77	80	81	84	87	86	90	87																									
5	96	98	98	97	97	96	90	94	92	91	83	77	68	69	82	86	87	86	87	85	83	85	89	88	88																								
6	91	92	95	95	94	92	92	91	89	81	88	77	81	87	85	87	88	84	80	78	79	81	85	87	87																								
7	89	92	94	94	92	92	94	93	87	71	70	79	83	76	68	72	77	74	67	61	65	69	73	83	80																								
8	88	92	95	94	92	92	92	90	88	88	89	89	89	90	93	90	87	78	77	74	73	72	76	85	86																								
9 Q	90	96	95	93	91	89	88	88	87	88	87	87	87	85	87	88	85	80	77	75	73	76	78	76	85																								
10	80	86	89	89	88	88	89	87	86	87	87	87	87	88	88	86	82	74	72	71	73	78	81	82	84																								
11	87	89	91	92	92	90	95	96	96	94	92	90	90	88	88	87	85	78	75	75	74	74	79	81	87																								
12	85	88	92	91	93	90	91	90	89	86	86	83	77	79	80	82	81	80	77	73	74	77	81	84	84																								
13	86	106	103	103	101	97	93	92	92	88	86	87	84	82	81	79	78	75	75	70	73	77	81	89	87																								
14	87	99	99	101	100	100	104	101	97	86	89	86	83	85	83	85	86	83	82	77	74	77	82	84	89																								
15	90	93	96	92	93	93	94	89	88	90	90	86	83	80	82	81	80	77	72	73	78	81	87	90	86																								
16	94	97	98	97	98	97	97	96	94	93	88	86	87	86	84	88	86	82	77	75	76	76	76	85	88																								
17	92	93	94	93	91	92	94	97	99	95	92	90	82	84	85	83	79	73	68	69	71	68	69	70	84																								
18 D	79	95	119	145	134	130	121	123	116	105	83	83	89	80	90	88	89	84	83	81	86	90	96	98	99																								
19	99	99	95	90	92	90	89	89	88	78	84	82	56	60	79	87	90	87	82	79	77	80	83	85	84																								
20	89	89	91	89	88	87	87	86	87	86	88	87	86	79	72	72	71	65	61	61	65	69	74	86	80																								
21 D	99	112	112	116	124	121	75	90	87	81	82	61	58	65	77	79	80	76	73	77	81	85	86	89	87																								
22	95	98	98	94	91	90	90	89	89	90	91	90	91	93	92	90	88	80	77	84	82	90	98	102	91																								
23	107	100	96	96	95	93	93	93	93	92	83	59	67	74	80	84	83	76	75	80	86	91	90	92	87																								
24 Q	86	95	96	94	94	93	92	92	92	91	90	90	91	90	91	88	85	79	68	71	78	79	83	83	88																								
25 Q	85	85	87	89	89	89	90	89	90	88	87	87	87	88	89	86	84	83	77	75	76	77	78	76	85																								
26 Q	76	79	83	83	85	85	86	85	85	85	84	84	83	84	84	86	81	71	62	62	67	73	74	74	79																								
27	77	83	87	86	85	84	84	83	83	83	83	82	81	85	81	74	69	69	67	67	67	65	69	77	78																								
28 D	87	88	98	104	105	104	100	96	83	61	39	52	61	46	31	30	45	51	62	73	90	95	96	97	75																								
29 D	98	103	106	104	125	142	90	61	17	30	26	17	-18	1	39	57	65	71	76	85	93	100	129	127	73																								
30	128	135	147	123	119	113	107	100	100	87	54	58	71	69	71	69	69	70	69	75	84	90	99	97	92																								
MEAN	93	96	98	98	98	97	94	92	88	85	82	80	78	79	81	81	81	77	75	75	78	81	85	88	86																								

HORIZONTAL INTENSITY

MEAN VALUES FOR PERIODS OF SIXTY MINUTES, UNIVERSAL TIME

TABLE 13 VICTORIA

H = 18.500 GAMMA +

MAY 1972

HOUR =	00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23	MEAN
	TO 01	TO 02	TO 03	TO 04	TO 05	TO 06	TO 07	TO 08	TO 09	TO 10	TO 11	TO 12	TO 13	TO 14	TO 15	TO 16	TO 17	TO 18	TO 19	TO 20	TO 21	TO 22	TO 23	TO 24	
DAY																									
1 D	490	491	475	479	493	480	481	493	493	488	490	492	491	487	500	490	474	471	472	465	456	468	482	483	483
2 D	495	485	486	479	492	486	490	496	501	484	490	495	501	501	499	497	486	476	473	474	484	484	490	503	489
3	501	498	494	489	488	492	495	499	503	502	505	502	505	507	500	499	493	487	485	488	493	491	491	487	496
4	494	495	492	492	496	496	499	497	501	505	503	503	504	504	502	508	499	493	484	484	485	486	487	494	496
5	565	503	497	497	489	494	494	498	500	505	504	503	505	504	500	502	499	494	493	494	492	491	485	496	500
6	504	503	504	505	504	501	505	504	502	504	500	499	500	510	507	501	495	489	490	491	497	505	502	491	501
7 Q	486	487	495	499	496	497	499	501	502	502	501	503	501	505	507	505	496	487	486	488	497	497	496	491	497
8 Q	492	494	495	497	499	504	503	508	507	507	508	510	512	517	510	486	481	482	489	500	508	512	510	504	501
9	500	503	503	498	501	509	509	507	498	484	491	495	498	499	500	491	485	463	450	454	454	460	473	485	488
10	495	496	488	493	499	494	497	494	504	499	499	495	497	493	483	477	478	476	468	468	479	482	481	486	488
11	549	555	555	557	556	564	555	560	566	562	565	565	562	559	563	553	<u>548</u>	<u>546</u>	<u>548</u>	<u>557</u>	<u>558</u>	<u>557</u>	<u>552</u>	<u>552</u>	<u>557</u>
12	485	500	493	497	479	482	485	484	487	486	492	503	492	480	486	477	470	464	<u>461</u>	<u>461</u>	<u>465</u>	<u>470</u>	<u>474</u>	<u>474</u>	<u>481</u>
13	493	484	470	480	486	487	493	493	492	496	499	501	506	503	493	477	464	474	481	479	472	472	483	487	
14	491	486	486	484	485	488	493	492	491	488	486	493	492	493	492	483	480	468	455	460	463	465	470	475	482
15 D	490	496	492	490	492	493	495	498	502	501	495	496	500	502	501	492	482	475	469	393	427	446	499	480	484
16 D	493	421	440	458	459	462	467	475	485	483	490	478	486	492	495	496	491	484	470	460	453	454	465	477	472
17	484	481	487	477	474	477	469	475	475	478	481	480	479	481	481	482	483	475	462	453	446	446	455	468	473
18	475	496	497	496	480	472	485	494	497	500	500	495	495	497	500	502	490	476	465	465	467	469	468	481	486
19 Q	487	495	494	493	488	490	494	497	495	496	496	498	502	504	504	498	484	470	467	468	472	477	481	491	489
20 Q	496	499	494	487	481	482	488	490	493	495	493	492	492	500	500	487	475	468	472	483	491	488	495	498	489
21 Q	505	497	497	495	500	498	502	504	506	505	505	508	506	506	501	492	486	484	491	496	496	493	488	497	498
22	499	497	493	494	494	494	492	498	501	501	502	503	505	507	509	509	506	500	499	496	493	496	500	508	500
23	505	497	491	491	494	497	499	502	504	506	503	505	507	511	505	490	473	466	480	485	485	485	484	481	494
24	491	489	499	485	475	480	478	484	486	491	489	493	495	497	500	498	490	483	473	468	470	477	487	496	486
25	500	501	498	497	498	502	504	502	497	503	506	503	507	512	512	507	504	501	493	494	494	492	499	501	501
26	501	499	493	495	496	485	490	493	495	496	498	493	494	487	480	476	484	488	490	487	491	491	501	492	491
27	497	483	486	483	485	488	491	495	496	497	499	498	500	497	490	486	487	488	476	465	469	470	491	490	488
28 D	495	498	490	499	506	510	518	513	522	522	525	504	513	518	511	482	475	496	499	492	495	496	491	488	502
29	489	493	495	484	494	494	496	498	505	506	504	496	493	489	495	491	491	482	476	466	469	481	485	498	490
30	496	501	497	495	495	499	497	501	503	505	509	502	508	510	523	531	523	526	517	508	518	504	499	501	507
31	505	491	489	498	496	506	505	483	491	490	498	501	502	512	516	507	498	488	486	488	487	484	489	475	495
MEAN	498	494	492	492	493	494	496	498	500	500	501	500	501	503	502	496	490	484	481	478	482	484	488	491	493

DECLINATION

MEAN VALUES FOR PERIODS OF SIXTY MINUTES, UNIVERSAL TIME

TABLE 14 VICTORIA

D = 22 DEG 00.0 MIN EAST +

MAY 1972

HOUR =	00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23	MEAN
	TO 01	TO 02	TO 03	TO 04	TO 05	TO 06	TO 07	TO 08	TO 09	TO 10	TO 11	TO 12	TO 13	TO 14	TO 15	TO 16	TO 17	TO 18	TO 19	TO 20	TO 21	TO 22	TO 23	TO 24	
DAY																									
1 D	15.4	16.4	21.5	16.5	18.1	21.4	20.1	20.6	23.5	21.6	21.1	21.2	19.6	20.8	24.7	26.3	25.4	23.6	21.7	20.5	18.4	15.0	13.8	14.3	20.1
2 D	14.5	16.4	17.7	21.2	24.1	18.7	18.7	18.6	25.0	22.4	21.2	20.4	21.0	23.3	25.4	28.1	27.3	26.1	21.8	17.3	15.4	14.9	14.6	14.8	20.4
3	16.0	17.2	19.3	19.3	19.9	19.0	19.0	19.2	19.6	18.3	19.7	19.3	20.3	22.8	24.1	24.8	24.2	23.3	21.7	18.7	16.2	15.6	15.4	15.9	19.5
4	16.6	17.2	18.2	20.7	20.9	18.6	18.7	18.8	19.6	19.9	20.2	20.4	20.3	20.2	20.6	22.1	22.9	23.3	22.8	20.3	19.4	18.2	17.2	16.0	19.7
5	15.7	16.1	17.9	19.8	18.3	18.5	18.6	18.8	19.1	19.1	19.7	19.8	20.2	21.3	22.4	23.3	24.1	23.4	22.1	19.9	18.6	17.5	15.8	15.4	19.4
6	14.4	14.5	15.3	17.0	17.9	18.2	19.4	20.1	17.6	22.3	20.8	21.0	21.7	24.8	24.2	23.3	22.7	20.0	20.3	19.0	17.1	17.2	16.0	16.2	19.2
7 Q	16.2	17.0	17.8	19.0	19.6	19.6	19.7	19.5	19.4	19.2	19.6	19.5	19.6	20.7	22.4	23.1	23.7	23.1	21.8	19.6	17.6	16.2	15.2	15.4	19.4
8 O	16.4	16.9	17.8	18.1	18.1	18.8	18.8	19.1	19.2	18.6	19.0	19.4	20.1	21.3	23.0	24.2	24.8	23.4	19.2	14.1	12.9	13.6	15.2	16.5	18.7
9	17.7	17.9	18.5	18.4	18.7	18.5	18.3	20.1	28.3	25.9	20.8	20.4	20.7	20.1	23.9	25.5	26.4	25.5	24.5	19.2	14.8	13.2	12.7	13.2	20.1
10	13.7	15.4	17.8	18.3	17.9	18.6	18.3	18.5	19.4	19.4	19.9	20.3	21.2	23.2	24.0	25.8	25.3	24.5	22.0	17.7	14.6	13.6	14.0	14.3	19.1
11	16.3	17.7	18.1	18.7	17.9	17.7	19.4	18.4	17.6	19.0	18.9	19.6	22.9	24.3	25.2	23.1	<u>23.6</u>	<u>23.2</u>	<u>20.8</u>	<u>16.6</u>	<u>14.9</u>	<u>14.2</u>	<u>14.4</u>	<u>13.5</u>	<u>19.0</u>
12	15.7	15.5	16.5	16.6	21.2	18.5	19.6	19.7	21.2	20.8	19.6	19.1	20.5	17.0	19.9	22.3	<u>23.6</u>	<u>25.2</u>	<u>22.1</u>	<u>16.6</u>	<u>11.7</u>	<u>8.9</u>	<u>7.7</u>	<u>7.6</u>	<u>17.8</u>
13	13.1	14.3	17.4	17.9	17.7	17.6	17.3	18.1	18.4	18.0	18.2	18.4	20.0	21.4	23.2	23.4	24.0	21.4	17.6	16.1	14.7	13.2	12.4	12.5	17.8
14	12.9	15.1	17.2	17.3	16.5	16.9	16.9	16.5	17.6	19.0	18.0	19.7	19.7	22.2	23.1	24.4	24.1	23.4	20.4	15.4	12.0	10.1	10.0	9.9	17.4
15 D	12.4	16.1	18.5	19.5	19.2	18.5	18.3	17.7	17.4	18.7	18.5	19.0	20.3	21.8	24.3	26.8	28.0	25.0	22.9	31.2	11.0	2.8	2.3	0.6	17.9
16 D	0.7	9.3	13.1	16.0	17.1	18.5	19.4	19.4	17.8	18.0	18.0	14.8	18.4	20.9	23.2	25.3	25.3	24.3	22.2	19.7	17.4	15.4	14.6	15.0	17.7
17	16.7	18.7	19.8	19.3	19.3	20.0	19.5	18.6	18.8	18.2	18.4	17.8	17.9	21.4	25.0	28.6	29.5	28.4	26.0	21.8	18.5	15.7	13.8	13.3	20.2
18	15.0	14.9	18.0	19.6	20.6	24.7	22.6	18.4	17.1	15.5	14.5	18.3	20.9	23.7	26.2	27.7	27.8	25.3	22.8	18.7	16.7	15.5	15.0	14.5	19.7
19 Q	14.8	16.5	19.1	20.1	20.0	19.2	18.5	18.3	18.1	18.2	18.6	18.3	19.0	20.9	23.3	24.4	24.5	23.4	21.5	18.1	15.2	14.0	13.2	12.9	18.8
20 Q	14.1	15.9	17.0	18.5	17.7	17.7	18.0	18.0	18.0	18.3	18.1	18.8	21.8	23.6	25.5	26.6	26.3	24.1	20.8	18.2	17.2	16.7	15.9	15.5	19.3
21 Q	15.4	16.1	16.3	16.9	17.4	17.2	18.0	18.5	18.6	18.8	19.4	19.6	20.7	23.0	24.1	24.8	25.9	24.3	19.6	17.3	16.2	17.1	16.3	15.0	19.0
22	15.2	16.0	18.3	18.6	19.1	18.7	19.1	18.1	19.1	19.6	19.7	19.9	21.2	22.8	24.6	25.8	24.8	23.5	21.7	19.5	17.0	15.9	15.1	13.8	19.5
23	14.1	14.9	17.0	17.4	17.7	18.0	18.0	18.7	18.5	19.1	19.3	19.6	20.3	21.6	23.0	26.3	28.0	22.4	18.3	14.0	13.0	12.1	9.8	10.2	18.0
24	11.9	16.6	18.7	17.9	17.1	17.9	18.0	17.6	18.0	18.3	18.8	19.2	19.8	21.7	23.7	25.6	27.0	25.9	23.4	20.1	19.2	17.9	15.3	14.4	19.3
25	15.3	16.7	13.1	18.1	18.1	18.0	18.1	17.9	18.1	18.5	19.3	20.4	21.0	21.5	23.0	24.1	24.6	24.6	23.2	20.5	18.1	15.3	13.4	13.2	19.1
26	15.2	16.2	17.4	17.7	17.2	17.0	17.3	17.7	18.0	17.8	16.9	18.7	19.9	20.5	22.7	23.3	20.9	19.2	14.1	11.8	8.2	8.1	9.3	11.7	16.5
27	13.9	17.1	18.2	17.9	17.5	17.8	17.9	18.1	18.3	18.2	18.4	18.7	19.6	21.1	22.2	23.5	22.4	21.7	20.2	14.5	10.1	7.3	5.5	6.9	17.0
28 D	10.0	12.8	15.7	16.9	15.5	15.5	15.4	17.4	18.1	18.0	21.0	21.4	20.9	23.5	22.8	26.4	25.3	21.3	21.0	15.2	12.6	14.4	15.6	16.3	18.0
29	17.4	18.4	20.0	21.8	19.5	18.2	18.4	20.3	16.9	17.8	18.5	18.3	22.2	22.6	24.0	25.9	28.5	27.8	24.4	19.3	15.1	12.7	11.6	12.9	19.7
30	15.7	18.2	22.0	22.5	19.0	19.9	17.9	17.7	17.7	17.3	18.4	17.4	19.6	21.4	22.7	26.2	29.4	26.8	22.8	20.2	15.6	13.8	12.8	11.8	19.4
31	13.3	16.3	17.1	17.7	23.2	29.1	26.1	20.9	18.6	19.8	18.2	18.0	20.6	22.9	25.0	26.1	24.6	24.5	22.7	19.3	16.5	14.7	13.7	13.8	20.1
MEAN	14.4	16.1	17.9	18.6	18.8	18.9	19.8	18.7	19.1	19.1	19.1	19.2	20.4	21.9	23.6	25.1	25.3	23.9	21.5	18.4	15.4	13.9	13.1	13.1	18.9

VERTICAL INTENSITY

MEAN VALUES FOR PERIODS OF SIXTY MINUTES. UNIVERSAL TIME

TABLE 15 VICTORIA		Z = 53,000 GAMMA +																				MAY 1972			
HOUR =	00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23	MEAN
	TO 01	TO 02	TO 03	TO 04	TO 05	TO 06	TO 07	TO 08	TO 09	TO 10	TO 11	TO 12	TO 13	TO 14	TO 15	TO 16	TO 17	TO 18	TO 19	TO 20	TO 21	TO 22	TO 23	TO 24	
DAY																									
1 D	96	104	111	105	103	118	119	107	66	79	91	92	91	81	84	87	85	84	85	86	84	86	88	94	93
2 D	103	106	112	113	112	102	101	98	88	50	82	90	94	95	96	96	92	84	80	81	89	95	96	98	94
3	99	98	97	92	93	93	93	94	94	91	87	87	91	95	92	85	82	78	78	78	82	85	84	83	89
4	86	93	95	96	94	92	90	92	92	89	91	93	92	86	77	73	71	73	74	74	78	80	80	86	85
5	88	91	94	95	91	90	89	90	91	90	87	88	90	91	89	88	85	80	71	67	70	72	75	78	85
6	87	87	90	88	87	86	89	89	68	81	86	87	82	80	82	83	84	82	81	83	81	80	81	83	84
7 Q	86	90	94	94	91	89	90	88	88	87	88	88	89	90	89	84	81	74	67	59	61	65	74	76	83
8 Q	81	88	90	89	89	88	88	86	86	86	87	87	90	89	90	86	84	75	64	67	67	75	81	85	83
9	90	92	91	89	87	88	87	88	79	65	82	87	91	84	82	80	78	71	60	62	69	77	94	97	82
10	101	102	103	100	96	96	96	94	84	65	73	72	78	78	81	79	79	75	66	66	72	77	83	88	84
11	71	77	75	75	74	72	74	73	71	68	68	62	65	64	65	64	<u>43</u>	<u>46</u>	<u>59</u>	<u>42</u>	<u>51</u>	<u>56</u>	<u>58</u>	<u>67</u>	<u>64</u>
12	85	96	95	101	101	101	103	87	85	85	86	88	84	74	70	72	73	<u>75</u>	<u>68</u>	<u>67</u>	<u>70</u>	<u>72</u>	<u>79</u>	<u>90</u>	<u>84</u>
13	99	106	97	95	90	88	90	89	88	88	86	85	87	87	86	83	78	71	67	70	69	68	76	91	85
14	102	103	104	101	98	97	95	93	90	89	87	85	81	80	78	72	70	64	57	53	49	55	68	78	81
15 D	89	95	96	92	88	87	86	87	86	81	82	83	86	84	77	72	68	60	51	25	43	62	80	95	77
16 D	145	159	137	120	105	99	95	95	94	94	96	89	99	104	103	99	95	88	82	80	84	92	97	103	102
17	105	103	101	92	90	93	92	94	93	94	95	94	88	81	80	84	80	77	69	70	74	78	80	89	87
18	93	106	113	110	106	104	101	102	97	94	79	80	90	95	97	98	93	82	73	70	72	73	77	86	91
19 Q	89	91	93	91	88	87	87	86	85	85	87	86	89	89	84	82	80	78	74	69	74	80	85	98	85
20 Q	103	103	108	104	95	93	90	89	88	88	88	81	88	90	90	88	83	77	73	72	74	76	81	81	88
21 Q	88	88	88	83	83	81	83	83	81	83	83	84	86	85	83	76	72	67	63	66	72	74	74	77	79
22	83	88	89	87	87	89	88	88	86	83	84	86	87	87	85	80	77	71	60	59	62	64	66	72	80
23	77	82	82	81	81	80	81	80	80	80	79	81	80	84	82	75	70	58	57	57	61	71	79	90	76
24	107	111	113	108	107	104	99	95	92	89	88	89	92	92	96	95	90	82	78	81	78	82	87	91	94
25	96	96	93	88	86	84	83	84	83	85	84	82	83	85	84	82	76	70	64	62	60	65	73	79	80
26	89	95	94	90	91	90	88	85	84	82	79	76	81	80	80	73	65	64	64	68	74	80	85	91	81
27	100	99	96	88	85	85	86	85	85	82	84	81	79	74	66	61	53	50	45	45	57	68	76	90	76
28 D	94	98	94	91	85	85	84	85	81	78	71	68	81	86	85	85	80	72	68	65	72	70	75	82	81
29	89	92	94	93	93	90	88	83	73	70	78	75	75	78	83	82	78	74	65	63	71	80	85	92	81
30	95	93	100	98	90	87	86	85	86	85	84	80	82	85	86	86	78	69	60	62	72	70	72	75	82
31	85	87	91	94	98	95	77	79	83	83	81	80	79	82	83	83	80	72	65	60	62	66	75	85	80
MEAN	94	93	98	95	92	91	90	89	85	82	84	83	85	85	84	82	78	72	67	65	69	74	79	86	84

HORIZONTAL INTENSITY

MEAN VALUES FOR PERIODS OF SIXTY MINUTES. UNIVERSAL TIME

TABLE 16 VICTORIA

H = 18.500 GAMMA +

JUNE

1972

HOUR =	00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23	MEAN	
	TO 01	TO 02	TO 03	TO 04	TO 05	TO 06	TO 07	TO 08	TO 09	TO 10	TO 11	TO 12	TO 13	TO 14	TO 15	TO 16	TO 17	TO 18	TO 19	TO 20	TO 21	TO 22	TO 23	TO 24		
DAY																										
1	483	493	496	494	495	493	495	496	499	495	494	496	502	510	514	508	496	482	470	481	484	490	490	494	494	
2	496	495	496	494	500	502	503	503	506	505	502	499	502	506	520	520	514	513	508	501	492	491	492	499	502	
3	489	507	505	492	486	491	490	491	499	489	493	496	505	508	513	513	502	482	479	477	484	485	483	481	493	
4 D	494	505	507	498	499	506	504	517	505	507	510	510	501	504	512	497	503	502	499	505	495	483	478	481	501	
5	495	494	487	493	490	502	506	492	498	505	498	496	495	492	487	479	469	471	480	486	495	496	501	498	492	
6	502	497	495	497	500	495	499	504	504	504	504	505	507	508	510	505	505	508	498	498	508	513	500	495	503	
7	492	502	499	488	485	493	501	504	498	495	490	494	488	495	492	478	471	467	467	476	486	495	507	501	490	
8	500	505	497	495	501	496	500	499	501	498	495	493	493	488	491	489	475	474	492	491	486	484	487	488	492	
9 Q	492	483	479	488	496	496	494	497	498	501	502	495	495	494	491	478	466	459	457	463	476	484	496	502	487	
10 Q	500	501	497	503	503	506	503	502	503	504	506	507	508	512	509	496	485	476	472	471	476	484	494	502	497	
11 Q	512	503	504	506	506	505	502	510	509	508	509	507	512	514	510	499	481	467	475	488	488	489	492	498	500	
12 Q	497	503	509	508	506	504	504	506	510	512	514	513	514	520	520	514	503	489	485	486	491	497	508	514	505	
13	523	517	506	505	507	508	508	509	514	517	518	517	521	521	518	510	500	497	490	477	492	500	498	490	507	
14	498	503	506	508	509	517	508	511	504	510	512	515	523	525	528	529	515	508	481	486	471	481	480	496	505	
15	516	498	512	494	497	489	491	488	497	502	500	512	517	519	524	513	516	512	499	486	477	481	483	486	500	
16	497	501	501	501	499	493	494	499	503	496	493	502	510	498	493	494	498	498	494	487	473	470	479	481	494	
17 D	487	494	488	506	500	497	501	497	479	505	504	493	483	511	527	515	498	469	535	505	490	477	551	563	503	
18 D	725	796	883	548	443	417	364	357	334	377	321	283	362	341	369	387	411	426	406	417	436	461	476	491	451	
19 D	482	490	484	469	447	437	435	442	436	451	454	449	462	468	477	478	484	473	471	464	459	452	451	457	461	
20	480	481	472	455	464	465	475	468	471	472	474	474	480	478	484	479	466	454	454	450	449	448	452	453	467	
21	468	482	490	480	475	468	475	473	477	477	475	479	482	488	493	486	482	467	456	459	443	455	473	482	474	
22	478	483	482	480	483	485	491	498	500	491	484	480	490	493	489	489	477	460	457	469	474	480	484	468	482	
23	478	481	470	486	484	485	485	484	482	483	479	477	478	483	491	481	462	447	437	451	468	470	470	478	475	
24	487	489	484	482	484	483	480	479	489	485	478	486	488	483	483	486	506	501	479	467	468	463	468	474	482	
25	476	484	483	483	482	483	481	485	487	491	494	495	502	500	503	498	494	495	505	500	492	488	484	481	490	
26	490	491	491	495	486	481	492	496	498	492	498	494	501	505	502	496	496	483	469	468	474	476	482	480	489	
27 D	492	497	494	498	486	485	486	489	491	494	497	500	496	503	508	508	500	479	474	459	460	464	479	491	489	
28	494	492	474	473	487	483	479	487	480	482	493	485	491	496	504	509	498	479	467	478	483	482	480	490	486	
29	501	503	479	472	480	475	481	483	485	491	489	488	488	493	488	497	501	494	488	480	479	477	472	464	485	
30 Q	480	478	486	490	493	492	486	485	485	483	487	486	491	497	500	500	496	488	483	478	477	478	478	481	487	
MEAN	500	505	505	493	489	488	487	488	488	491	489	488	493	495	498	494	489	481	478	477	478	480	486	489	489	

RECORD OF OBSERVATIONS AT VICTORIA MAGNETIC OBSERVATORY 1972

DECLINATION

MEAN VALUES FOR PERIODS OF SIXTY MINUTES, UNIVERSAL TIME

TABLE 17 VICTORIA		D = 22 DEG 00.0 MIN EAST +																				JUNE 1972				
HOUR =	00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23	MEAN	
	TO	TO	TO	TO	TO	TO	TO	TO	TO	TO	TO	TO	TO	TO	TO	TO	TO	TO	TO	TO	TO	TO	TO	TO		TO
	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24		
DAY																										
1	14.5	16.7	19.8	18.7	18.7	18.3	18.0	17.7	19.0	19.0	18.0	18.5	20.0	21.6	22.9	25.7	27.0	25.5	20.9	15.3	12.3	11.5	11.8	11.8	18.4	
2	12.6	15.1	17.2	18.8	18.6	17.3	17.6	17.7	18.1	16.8	17.9	18.5	19.1	20.4	21.8	23.1	23.6	23.9	21.7	18.6	17.1	15.4	13.6	12.7	18.2	
3	15.0	18.9	21.0	19.5	21.4	20.1	18.5	18.5	18.4	18.1	17.0	15.0	18.2	21.4	24.8	26.5	28.3	24.2	23.4	19.8	16.8	15.9	14.3	13.9	19.5	
4 D	13.5	14.8	15.9	17.5	19.6	17.7	17.3	18.9	19.1	18.4	18.4	19.4	21.8	23.4	25.0	27.5	23.5	24.9	21.9	20.4	17.9	15.6	14.3	14.0	19.2	
5	12.7	14.8	13.6	20.2	20.5	20.4	25.1	20.9	18.8	18.0	17.9	20.3	20.5	21.3	23.2	25.2	24.6	21.9	18.5	14.4	13.3	12.1	11.7	12.9	18.7	
6	14.8	15.7	17.3	18.2	18.9	19.2	18.6	19.0	18.7	18.1	18.6	19.1	19.5	20.7	23.3	25.5	26.4	24.2	20.1	16.3	14.4	14.0	13.9	14.5	18.7	
7	16.0	17.1	17.1	20.3	19.5	18.2	19.8	19.0	17.5	16.8	17.8	18.8	22.2	23.2	25.1	26.5	24.4	20.0	16.7	13.1	12.2	12.5	12.6	13.5	18.4	
8	15.0	15.7	17.5	17.7	18.5	18.0	16.9	16.6	16.8	16.9	17.8	20.1	20.6	21.9	21.2	24.4	24.4	22.2	17.6	16.5	14.9	13.2	12.5	12.9	17.9	
9 Q	13.7	13.5	15.9	16.7	17.5	16.9	16.9	17.2	17.7	17.5	17.6	18.0	19.1	20.6	21.9	22.8	24.1	23.2	20.4	17.2	15.0	13.4	12.7	13.1	17.6	
10 Q	15.5	16.8	13.0	17.6	18.2	19.2	20.0	17.7	17.6	17.8	18.0	19.0	20.1	21.7	23.6	26.4	26.1	25.2	20.6	16.4	13.6	12.9	12.9	14.0	18.7	
11 Q	15.4	16.6	17.1	17.2	17.2	17.0	17.8	18.1	18.2	18.2	18.0	19.5	21.1	21.6	25.2	27.1	27.2	25.7	21.0	17.5	15.8	15.2	14.2	13.7	19.0	
12 Q	15.1	15.8	16.1	17.5	17.8	17.3	17.3	17.5	17.2	17.6	18.5	19.2	21.1	21.3	23.2	26.1	26.9	26.2	22.5	19.1	15.2	13.9	13.4	13.0	18.7	
13	12.7	14.3	15.7	16.6	16.5	16.5	16.9	17.5	18.2	18.6	18.9	19.5	20.8	22.1	23.3	23.9	23.2	23.0	22.1	20.3	15.4	13.5	12.1	11.8	18.1	
14	13.0	14.9	15.7	15.9	16.5	16.6	15.9	16.3	17.5	17.3	18.3	20.5	20.5	22.3	23.1	25.5	26.1	24.2	24.2	20.1	16.5	11.4	9.7	10.9	18.0	
15	12.1	15.1	17.0	19.9	20.9	19.4	21.2	20.3	18.3	17.2	17.8	19.2	19.2	19.4	21.4	24.1	22.8	22.0	23.5	21.3	16.5	15.2	15.0	13.8	18.9	
16	12.6	14.1	16.3	18.1	18.9	19.3	18.4	18.1	19.1	23.0	18.9	17.8	18.6	20.3	22.3	23.1	22.8	21.4	19.4	18.0	16.7	15.1	13.7	13.0	18.3	
17 D	15.0	15.8	17.7	17.9	19.4	21.9	20.1	20.4	22.0	21.7	16.9	16.2	15.8	24.3	28.5	31.2	29.6	23.0	15.1	20.0	18.0	8.8	4.6	1.7	18.6	
18 D	-3.9	-10.4	0.3	23.6	24.9	31.0	23.0	28.2	33.0	30.0	31.5	17.2	19.1	17.2	18.0	15.8	22.3	26.0	24.6	23.5	18.2	17.6	17.0	17.2	19.4	
19 D	19.6	21.0	20.2	21.1	22.7	26.0	30.8	24.0	27.4	23.4	23.4	20.3	17.5	19.4	22.1	25.7	28.2	27.6	24.0	20.1	19.9	18.8	17.2	16.1	15.8	22.3
20	15.8	17.2	20.5	18.2	17.5	17.7	18.9	18.0	17.9	18.1	18.6	18.6	20.6	21.4	23.8	25.7	26.6	26.0	22.8	19.6	16.9	15.1	14.8	14.0	19.3	
21	13.1	13.3	15.1	17.2	17.6	17.3	17.6	18.0	18.5	18.7	18.7	19.1	20.3	21.4	22.9	24.6	24.3	24.8	22.4	21.3	19.2	14.5	13.9	12.9	18.6	
22	14.7	16.2	18.7	18.8	18.3	17.7	17.9	18.3	20.0	21.6	20.8	16.5	20.8	24.6	25.7	25.8	25.0	24.0	19.9	16.8	14.7	12.3	12.7	12.4	18.9	
23	12.0	12.3	15.1	16.5	19.9	18.8	18.1	22.4	19.2	18.1	16.1	16.1	19.8	23.9	24.8	25.3	26.8	24.9	19.4	14.8	14.0	13.7	12.8	13.3	18.3	
24	15.3	16.3	17.4	18.1	18.0	18.1	18.7	17.9	16.4	17.6	18.2	19.1	20.9	21.0	21.4	25.0	27.6	27.6	26.0	19.4	14.6	12.1	11.4	12.7	18.8	
25	14.8	16.9	13.7	19.4	19.7	19.5	21.7	20.1	20.0	19.4	18.4	18.0	19.2	19.6	21.2	23.6	26.1	26.3	24.4	20.3	16.3	14.2	13.2	13.6	19.4	
26	14.5	15.8	13.1	20.0	22.8	19.0	17.6	17.2	17.8	19.0	16.8	17.0	18.7	20.6	22.5	21.7	24.6	25.4	20.6	16.9	13.0	12.3	13.1	13.7	18.3	
27 D	14.9	17.2	18.6	20.5	19.6	20.9	20.0	23.3	20.0	18.6	17.7	18.7	21.1	23.6	25.5	27.6	27.1	25.4	20.6	18.8	14.1	8.8	9.4	10.4	19.3	
28	13.2	16.5	21.2	19.2	18.7	20.0	23.9	24.2	21.3	21.2	16.2	17.7	19.6	20.8	24.6	27.2	28.0	27.4	22.5	19.7	17.1	14.6	12.8	12.4	20.0	
29	12.0	16.6	18.7	20.2	19.4	21.4	18.9	17.7	17.9	17.6	16.6	17.3	20.0	21.8	22.6	23.2	23.7	22.3	18.7	16.3	15.3	14.6	15.0	15.2	18.5	
30 Q	16.1	17.0	17.7	18.7	20.5	19.5	19.5	19.2	17.5	16.8	17.4	18.6	20.7	22.0	23.1	25.2	26.9	25.8	22.9	19.2	15.0	13.4	13.0	12.9	19.1	
MEAN	13.7	15.1	17.2	18.7	19.3	19.3	19.4	19.3	19.3	19.0	18.6	18.4	19.9	21.5	23.3	25.0	25.6	24.5	21.3	18.4	15.6	13.7	12.9	12.9	18.8	

VERTICAL INTENSITY

MEAN VALUES FOR PERIODS OF SIXTY MINUTES, UNIVERSAL TIME

TABLE 18 VICTORIA

Z = 53,000 GAMMA +

JUNE 1972

DAY	HOURLY MEAN VALUES																								MEAN		
	00 TO 01	01 TO 02	02 TO 03	03 TO 04	04 TO 05	05 TO 06	06 TO 07	07 TO 08	08 TO 09	09 TO 10	10 TO 11	11 TO 12	12 TO 13	13 TO 14	14 TO 15	15 TO 16	16 TO 17	17 TO 18	18 TO 19	19 TO 20	20 TO 21	21 TO 22	22 TO 23	23 TO 24			
1	89	93	96	90	86	82	83	83	83	83	85	88	89	91	88	81	75	65	65	69	79	82	88	83			
2	92	91	91	87	86	82	83	82	81	77	80	81	84	86	90	90	85	74	63	59	63	68	73	88	81		
3	94	108	109	94	87	87	84	85	82	72	78	70	81	88	92	98	90	71	59	60	68	70	73	77	82		
4 D	85	88	91	87	85	85	83	76	78	81	79	70	77	79	81	82	82	66	53	53	64	68	72	76	77		
5	86	97	103	105	101	94	79	74	79	62	63	77	82	83	85	85	77	70	58	60	63	72	77	81	80		
6	86	88	87	85	84	83	83	83	81	81	81	85	85	87	90	88	83	74	64	58	58	65	76	87	80		
7	90	97	101	93	89	87	84	81	80	76	77	73	79	83	81	71	59	48	43	52	66	80	86	77			
8	89	95	91	92	90	86	85	83	81	78	80	83	86	84	85	87	78	65	62	56	59	69	78	90	81		
9 Q	102	104	104	93	92	89	88	88	85	84	81	75	81	85	85	83	75	67	57	49	44	53	64	74	79		
10 Q	85	89	88	88	87	86	83	81	82	80	80	80	81	84	86	85	79	67	53	47	48	52	62	72	76		
11 Q	84	84	84	83	81	81	80	81	77	78	77	78	82	85	87	84	73	65	52	47	50	55	63	73	74		
12 Q	78	82	80	81	80	78	78	80	79	79	79	78	80	81	82	82	74	58	43	42	43	50	57	65	71		
13	75	80	82	80	78	77	78	79	80	79	78	77	78	80	81	77	67	57	52	50	47	53	55	64	71		
14	81	87	87	82	78	80	79	82	82	82	80	80	81	79	80	79	74	68	55	52	53	57	57	72	74		
15	90	92	103	110	99	94	96	93	91	87	83	86	86	87	87	83	75	65	62	64	64	65	70	74	84		
16	81	88	88	89	86	85	83	84	80	76	77	82	84	79	77	73	67	69	67	63	57	59	66	77	77		
17 D	92	101	93	93	91	90	86	65	68	68	55	60	36	42	49	56	54	44	24	28	45	60	101	167	70		
18 D	353	382	426	277	165	60	48	38	-109	-19	-150	-113	-60	-103	-98	-87	-46	36	65	85	101	108	111	120	66		
19 D	137	155	156	162	173	164	87	52	56	61	51	63	64	67	80	90	92	90	85	89	92	94	100	104	99		
20	116	129	134	109	104	102	101	93	96	96	98	97	98	94	94	92	86	78	68	67	73	77	83	87	95		
21	92	94	99	96	97	92	94	94	93	92	93	95	96	98	99	96	92	85	80	78	74	81	85	95	91		
22	100	103	108	101	96	93	93	94	77	77	76	62	71	85	88	90	87	78	68	67	71	76	86	92	85		
23	104	110	105	105	104	100	100	98	91	94	88	73	62	64	75	83	86	78	72	76	83	88	91	91	88		
24	97	103	99	95	94	94	94	94	92	86	86	85	86	83	78	76	76	72	63	66	72	71	78	84	84		
25	93	102	105	101	97	97	97	97	95	95	93	93	94	97	94	96	95	86	79	76	73	74	79	83	81	91	
26	88	94	96	98	101	96	94	92	90	86	83	77	89	95	95	87	76	68	61	62	66	69	77	81	84		
27 D	82	56	96	67	94	96	100	90	83	91	92	91	86	92	94	91	81	76	66	56	59	70	77	86	85		
28	93	104	113	103	97	99	97	83	66	72	83	82	93	90	83	88	92	88	81	80	83	80	82	84	88		
29	93	109	112	111	105	103	99	94	95	88	79	79	84	86	84	86	85	82	73	71	78	79	87	91	90		
30 Q	100	103	100	102	99	93	94	93	93	90	88	88	94	95	96	94	93	87	78	74	67	68	74	85	90		
MEAN	101	108	111	103	97	91	87	83	76	78	72	73	77	77	79	79	76	70	62	61	65	70	77	86	82		

HORIZONTAL INTENSITY

MEAN VALUES FOR PERIODS OF SIXTY MINUTES, UNIVERSAL TIME

TABLE 19 VICTORIA				H = 18.500 GAMMA +																			JULY		1972	
DAY	HOURLY =	00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23	MEAN
	TO	TO	TO	TO	TO	TO	TO	TO	TO	TO	TO	TO	TO	TO	TO	TO	TO	TO	TO	TO	TO	TO	TO	TO	TO	
	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24		
1	490	491	494	493	491	493	494	496	496	500	498	505	504	508	511	506	505	507	511	501	482	474	473	477	496	
2	487	496	494	500	492	496	496	497	502	505	510	509	509	515	517	512	516	513	503	488	480	485	488	476	499	
3	478	499	502	507	506	504	507	513	514	512	515	517	518	517	509	495	490	498	501	499	499	484	477	475	502	
4	489	498	497	495	493	494	499	498	500	499	499	501	508	511	505	499	497	490	483	476	475	479	483	486	494	
5 Q	495	493	498	494	496	494	499	500	501	502	500	499	503	510	510	507	499	486	480	485	493	495	496	501	498	
6	500	498	496	501	501	500	497	498	499	499	501	506	509	510	512	508	494	485	481	482	482	486	493	506	498	
7 D	510	509	503	489	486	493	494	490	485	489	486	484	489	489	496	500	487	464	475	489	478	486	505	503	491	
8	489	468	470	465	453	462	473	483	489	492	495	497	501	503	509	508	504	492	490	482	470	469	476	486	484	
9	488	495	493	495	498	497	496	497	495	501	496	486	494	501	510	511	501	476	463	461	468	484	475	489	490	
10	479	492	494	456	498	496	455	500	500	498	498	496	496	499	500	497	489	482	471	466	454	474	486	489	489	
11	497	494	495	495	496	498	493	497	457	499	499	503	504	513	518	511	497	483	465	459	469	482	483	485	493	
12	498	499	500	498	497	500	499	502	504	502	505	506	500	505	519	511	511	499	474	467	467	468	485	491	496	
13 Q	498	495	495	495	494	490	495	498	498	499	498	501	507	518	515	511	505	490	474	468	471	480	491	497	495	
14 Q	503	500	498	497	501	497	495	497	500	498	497	503	508	513	515	510	503	487	469	462	457	456	467	479	492	
15	490	494	492	489	491	497	501	498	495	500	502	505	511	515	518	510	503	497	489	490	485	488	487	502	498	
16	506	506	509	496	491	490	490	492	491	496	496	503	502	507	508	505	490	466	472	470	467	476	486	503	492	
17	506	498	483	494	493	489	492	495	501	500	501	500	504	502	506	501	486	476	470	469	492	498	496	492	494	
18	488	485	498	493	495	498	498	500	501	504	508	507	504	504	502	495	488	482	488	484	478	485	486	481	494	
19	488	498	500	494	496	499	491	501	502	505	488	502	508	510	510	505	498	484	475	477	489	492	497	475	495	
20	475	487	492	493	496	502	500	502	502	503	512	499	503	504	500	492	479	475	479	483	489	492	489	498	494	
21 Q	497	498	492	494	494	500	498	499	499	500	501	501	500	500	498	486	478	468	472	481	487	493	499	508	493	
22	506	497	496	497	503	502	500	501	501	503	503	507	512	518	527	518	512	494	496	485	484	503	510	508	503	
23 D	507	502	498	489	501	505	508	510	514	517	511	513	515	509	511	503	493	502	500	492	488	497	507	502	504	
24 D	495	492	490	495	497	495	497	493	491	489	488	489	498	495	496	509	510	487	478	485	499	496	492	470	493	
25 D	483	489	488	486	486	477	465	466	494	465	481	481	502	487	492	508	494	475	466	461	476	487	485	464	482	
26 D	480	495	500	494	488	483	498	509	462	491	494	493	493	498	488	494	484	477	476	474	479	481	493	490	488	
27	500	501	503	493	503	478	482	486	493	495	501	498	503	502	503	500	485	466	466	460	460	468	481	485	488	
28	489	487	488	488	491	500	495	490	486	487	496	496	498	508	517	510	497	480	464	454	454	463	475	484	487	
29 Q	489	494	495	499	497	496	497	498	501	503	502	502	505	510	515	507	494	474	477	479	479	489	488	491	495	
30	495	494	490	494	499	499	501	500	501	502	507	510	511	514	517	511	501	487	483	476	475	482	495	506	498	
31	508	503	504	503	504	504	510	507	505	509	512	515	516	521	524	520	511	504	499	493	492	494	496	508	507	
MEAN	494	495	495	494	494	494	495	497	497	499	500	501	504	507	509	505	497	485	480	477	478	483	488	491	494	

DECLINATION

MEAN VALUES FOR PERIODS OF SIXTY MINUTES, UNIVERSAL TIME

TABLE 20 VICTORIA		D = 22 DEG 00.0 MIN EAST +																				JULY	1972		
HOUR =	00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23	MEAN
TO	TO	TO	TO	TO	TO	TO	TO	TO	TO	TO	TO	TO	TO	TO	TO	TO	TO	TO	TO	TO	TO	TO	TO	TO	TO
	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	
DAY																									
1	13.9	15.3	15.6	17.8	18.1	18.1	18.6	18.6	18.4	17.4	17.4	17.4	19.0	22.9	25.0	27.8	27.7	25.2	23.4	21.9	18.0	15.1	13.6	12.4	19.1
2	13.2	14.9	16.3	18.0	17.5	17.3	17.8	17.7	18.2	18.0	17.9	18.5	20.3	22.2	23.9	25.0	27.4	26.9	24.4	20.4	16.6	14.0	11.7	9.9	18.7
3	12.0	13.4	15.9	17.6	17.3	18.1	19.2	18.6	18.9	18.5	18.4	18.5	19.8	21.3	23.7	25.9	27.1	25.0	20.4	18.0	15.1	11.1	9.3	9.2	18.0
4	11.4	13.1	15.1	16.8	18.0	17.7	16.6	18.1	18.0	17.9	18.2	19.0	19.6	21.0	23.8	24.5	25.1	23.2	20.5	17.7	15.1	13.6	13.5	13.9	18.0
5 Q	14.4	15.9	17.3	17.5	17.5	16.9	17.4	16.9	17.1	17.4	18.1	19.4	20.5	22.0	23.6	25.0	24.0	21.0	18.0	15.1	13.3	11.3	11.9	13.1	17.7
6	15.4	16.9	18.4	18.3	17.4	17.2	17.4	17.5	17.8	18.5	19.0	19.1	20.1	21.4	24.1	26.0	26.3	25.1	20.9	15.8	12.7	10.9	10.0	10.7	18.2
7 D	12.8	13.8	15.7	17.8	19.1	16.9	17.6	18.1	18.5	17.6	19.0	19.5	19.7	21.4	24.2	26.5	24.7	23.5	19.5	10.5	7.5	8.5	9.5	10.5	17.2
8	11.2	13.7	15.0	19.4	18.7	26.8	25.5	18.1	17.9	16.4	17.2	17.8	19.2	22.1	25.1	26.1	24.9	23.9	20.2	15.7	12.7	12.5	12.8	13.5	18.6
9	15.3	16.5	17.6	17.4	17.6	17.3	17.3	17.0	16.9	17.1	18.4	22.5	23.6	24.8	27.1	25.9	26.4	25.1	21.5	17.6	13.8	11.8	12.1	12.0	18.9
10	14.4	15.6	18.0	17.0	16.8	17.2	17.0	17.3	17.9	18.1	18.6	19.7	19.7	23.1	24.9	26.6	28.3	27.0	20.8	16.8	14.0	12.2	12.5	14.3	18.7
11	15.5	17.2	18.3	18.2	17.7	17.7	19.9	21.2	19.4	19.0	17.8	18.5	19.1	22.6	25.7	27.8	28.3	27.0	25.3	18.3	15.1	13.5	13.1	13.0	19.5
12	15.1	17.3	18.9	19.0	18.2	18.2	18.3	21.9	18.5	17.8	17.4	17.5	18.7	22.2	22.3	23.7	23.5	22.6	21.4	19.1	16.3	14.1	13.5	15.1	18.8
13 Q	17.3	18.6	19.5	19.7	20.2	18.9	17.9	17.5	17.6	17.1	17.5	18.1	19.3	20.9	23.1	25.3	25.7	25.2	22.5	18.5	14.6	11.3	10.2	12.2	18.7
14 Q	14.3	16.6	19.7	18.6	18.5	19.6	18.5	17.8	17.3	17.6	17.7	18.5	20.1	21.6	24.0	26.0	26.5	24.4	21.2	16.9	13.3	10.5	10.7	12.2	18.4
15	14.2	15.9	17.7	17.9	17.2	17.3	18.9	19.4	18.7	17.6	17.8	18.8	19.5	20.8	22.9	24.7	26.6	26.2	24.5	20.3	18.2	17.0	15.8	14.2	19.3
16	14.1	15.3	15.1	17.4	17.9	19.0	18.5	17.7	18.4	18.4	19.8	20.3	21.5	23.0	25.3	27.6	28.4	27.9	20.6	17.2	13.7	12.5	11.2	11.8	18.9
17	13.3	14.9	16.7	18.8	17.4	18.8	18.0	17.5	17.7	18.4	18.2	18.9	20.6	22.5	25.2	26.5	28.0	26.4	23.2	16.9	13.6	11.4	11.2	13.0	18.6
18	14.6	16.5	15.0	16.2	17.0	17.4	18.5	20.6	18.2	17.9	17.8	18.6	19.4	20.6	21.7	22.1	24.5	23.1	19.8	17.8	16.0	14.6	14.8	15.4	18.3
19	16.1	16.5	17.5	17.8	17.4	17.3	17.0	17.3	18.2	20.4	23.1	20.3	20.7	21.9	24.1	25.5	24.3	22.9	20.9	17.4	15.2	13.3	13.2	14.7	18.9
20	16.2	15.7	15.6	16.1	16.6	18.0	18.9	17.9	17.9	17.5	18.5	19.4	20.6	22.2	23.9	24.7	24.2	21.6	19.7	17.1	14.8	14.0	14.4	15.3	18.4
21 Q	16.6	16.9	17.4	16.7	16.5	18.4	17.6	18.1	18.2	18.9	19.2	20.0	20.9	21.5	23.6	24.6	24.5	20.8	16.8	15.3	14.1	13.8	14.0	14.5	18.3
22	16.0	16.5	16.8	16.7	16.9	16.9	17.0	17.1	18.3	18.6	19.5	20.1	20.8	22.3	24.1	26.2	25.4	26.9	21.7	18.1	13.5	9.6	11.3	15.0	18.6
23 D	17.3	18.3	19.3	20.2	18.0	16.8	16.9	17.0	17.6	15.4	19.0	19.3	20.1	21.0	23.1	24.2	22.5	18.9	16.0	11.9	9.9	10.6	12.9	14.8	17.5
24 D	17.1	18.0	18.9	18.2	18.4	18.6	18.7	19.4	19.8	20.6	21.8	24.3	23.4	21.2	24.7	25.1	24.2	23.3	21.1	17.3	12.5	12.3	11.9	11.8	19.3
25 D	15.6	15.0	14.9	14.1	20.5	30.6	24.1	23.0	18.5	19.9	17.5	21.9	20.3	21.6	22.7	25.6	26.7	23.3	19.2	16.0	14.9	14.9	14.8	14.4	19.6
26 D	15.5	16.0	16.7	17.2	18.0	18.3	23.2	23.4	22.4	20.1	16.4	18.0	18.8	20.4	23.7	23.9	24.2	19.3	17.4	14.9	11.7	11.4	14.0	15.9	18.4
27	17.7	18.0	18.4	21.7	30.7	22.2	21.0	18.8	17.3	17.5	17.7	17.8	19.7	21.9	24.7	25.6	26.6	25.4	21.6	16.7	12.7	12.1	12.9	15.4	19.8
28	16.4	17.5	18.2	18.0	19.3	18.2	17.6	18.3	19.7	18.1	15.3	19.1	21.7	22.2	23.2	24.2	25.9	24.1	23.2	20.0	16.7	13.9	13.7	14.9	19.1
29 Q	16.0	17.1	17.8	18.0	18.2	17.6	17.3	17.1	18.7	17.5	16.9	18.4	19.7	21.0	21.9	23.4	24.3	22.6	16.8	14.8	13.6	12.9	13.3	15.1	17.9
30	16.5	17.8	18.4	17.9	18.4	17.9	18.0	18.1	18.9	18.6	18.8	19.4	20.4	20.4	23.3	23.5	24.2	23.1	23.4	19.5	16.5	12.4	10.3	11.1	18.6
31	12.6	14.3	16.3	17.0	17.7	18.4	18.0	17.5	17.4	17.8	18.0	18.1	19.6	20.4	22.6	25.0	26.8	25.2	22.9	19.2	14.3	13.1	11.9	12.2	18.2
MEAN	14.9	16.1	17.2	17.8	18.3	18.7	18.7	18.5	18.3	18.1	18.3	19.2	20.2	21.8	23.9	25.3	25.7	24.1	20.9	17.2	14.2	12.6	12.5	13.3	18.6

RECORD OF OBSERVATIONS AT VICTORIA MAGNETIC OBSERVATORY 1972

VERTICAL INTENSITY

MEAN VALUES FOR PERIODS OF SIXTY MINUTES, UNIVERSAL TIME

TABLE 21 VICTORIA

Z = 53,000 GAMMA +

JULY 1972

HOUR =	00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23	MEAN
	TO 01	TO 02	TO 03	TO 04	TO 05	TO 06	TO 07	TO 08	TO 09	TO 10	TO 11	TO 12	TO 13	TO 14	TO 15	TO 16	TO 17	TO 18	TO 19	TO 20	TO 21	TO 22	TO 23	TO 24	
DAY																									
1	90	93	94	92	89	87	88	88	91	89	90	91	87	89	94	91	90	84	78	68	64	68	75	82	86
2	89	95	95	95	90	89	89	91	91	92	93	92	96	97	97	91	84	83	78	72	68	71	76	83	87
3	92	98	100	98	92	91	90	88	83	87	89	90	93	92	89	85	82	71	70	70	72	77	78	85	86
4	93	96	96	96	94	89	87	85	86	85	87	87	91	88	86	82	74	66	68	71	71	73	78	87	84
5 Q	94	96	95	91	88	86	86	85	85	85	86	88	89	90	90	83	81	77	68	62	66	73	78	84	84
6	89	94	95	92	89	86	83	57	84	84	84	85	88	90	91	92	93	86	78	72	69	62	57	66	81
7 D	90	99	104	105	104	96	95	94	94	92	87	87	86	87	92	91	84	75	68	55	71	86	97	109	90
8	117	130	141	141	145	137	117	109	101	91	86	96	105	106	102	96	89	81	77	73	73	71	72	78	101
9	87	92	92	88	89	87	87	88	87	87	86	81	89	90	90	87	78	71	63	59	63	72	77	85	82
10	89	99	103	97	94	93	93	91	89	88	85	86	82	81	86	85	80	70	70	74	71	72	77	85	85
11	94	91	90	88	86	88	90	88	87	86	85	86	88	92	94	88	83	76	67	59	66	75	74	83	84
12	92	95	96	91	87	86	86	85	83	84	85	84	78	71	83	84	82	83	83	85	85	81	84	91	85
13 Q	98	100	96	92	90	88	88	87	88	86	86	88	91	91	88	86	83	77	73	74	77	80	85	91	87
14 Q	99	101	96	91	87	87	87	87	89	86	87	90	93	94	96	97	90	76	71	65	63	69	73	81	86
15	88	95	100	93	90	88	91	88	90	91	92	92	95	97	96	93	88	86	84	79	73	76	81	85	89
16	93	98	108	109	112	111	103	98	98	97	97	95	95	96	93	91	82	69	66	66	65	72	83	90	91
17	99	99	97	96	93	95	95	92	92	90	90	89	90	87	89	87	84	76	65	58	68	73	82	86	86
18	91	87	95	93	91	90	91	88	89	87	81	83	86	89	93	87	88	84	80	80	80	80	87	90	87
19	93	95	99	94	90	90	88	88	89	85	83	89	92	94	93	87	81	73	67	62	66	70	82	85	85
20	85	89	89	85	86	88	88	90	90	90	81	82	89	93	90	85	79	71	68	67	71	79	86	90	84
21 Q	93	98	95	91	89	86	85	86	86	86	85	84	86	85	86	83	79	70	62	60	63	61	70	80	81
22	89	86	86	83	87	85	86	85	87	85	87	86	89	87	89	87	86	77	69	57	61	72	81	85	82
23 D	93	91	92	91	91	86	88	85	86	71	74	77	82	81	72	74	70	67	62	58	60	66	70	77	78
24 D	83	85	88	88	87	86	87	87	91	87	85	81	90	85	65	59	59	61	60	56	59	66	88	103	79
25 D	122	132	120	121	140	96	91	93	101	60	29	27	53	54	68	89	92	78	82	76	75	79	86	98	86
26 D	112	107	102	92	96	93	95	65	49	71	83	90	93	92	87	73	71	71	75	75	76	81	88	95	85
27	100	100	102	102	107	91	80	84	92	90	90	82	81	85	90	88	88	76	66	67	70	73	80	92	87
28	97	99	97	94	94	93	88	88	88	87	84	84	93	95	95	92	88	79	67	61	57	64	77	85	85
29 Q	92	96	97	93	90	89	89	88	88	87	83	85	91	89	92	93	95	83	72	66	68	69	79	91	86
30	85	87	90	87	87	85	86	87	90	88	89	88	88	89	91	89	88	78	73	67	68	68	75	80	83
31	86	88	91	88	87	84	84	82	83	83	83	83	84	84	86	84	83	75	68	64	61	64	69	81	80
MEAN	94	97	98	95	95	91	89	87	88	86	84	85	88	88	89	86	83	76	71	67	68	72	79	87	85

HORIZONTAL INTENSITY

MEAN VALUES FOR PERIODS OF SIXTY MINUTES, UNIVERSAL TIME

TABLE 22 VICTORIA

H = 18.500 GAMMA +

AUGUST 1972

HOUR =	00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23	MEAN
TO	TO	TO	TO	TO	TO	TO	TO	TO	TO	TO	TO	TO	TO	TO	TO	TO	TO	TO	TO	TO	TO	TO	TO	TO	
	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	
DAY																									
1	528	504	508	496	466	475	480	485	482	479	484	483	489	495	495	489	475	470	469	475	486	488	492	497	487
2	490	488	484	490	498	498	493	492	496	493	495	499	503	515	519	525	519	502	490	483	472	480	499	502	497
3 Q	498	497	492	497	502	502	502	502	503	500	499	503	506	508	510	509	498	487	482	477	481	484	497	498	497
4 D	499	509	566	560	573	586	600	556	518	499	465	447	442	477	507	505	486	481	472	466	475	412	681	508	512
5 D	495	513	521	507	504	490	489	476	464	487	445	409	430	450	366	399	428	439	391	307	420	450	466	472	451
6 D	490	508	481	479	457	423	441	451	467	429	431	462	436	432	440	431	420	427	447	463	455	472	480	477	454
7	497	481	494	494	489	466	473	479	471	476	473	470	466	464	453	442	445	443	443	441	446	457	470	480	467
8	481	478	470	470	474	475	476	477	479	480	480	482	480	484	475	476	476	454	446	441	445	452	457	474	470
9 D	512	518	494	534	532	531	483	476	437	491	614	496	428	441	447	442	435	444	420	432	449	458	457	460	476
10	457	460	463	465	467	465	464	466	471	467	466	444	460	453	445	456	464	452	441	448	445	446	454	462	458
11	492	484	484	489	473	471	478	478	492	486	476	479	471	477	480	468	447	452	448	455	455	459	473	468	472
12	467	473	477	482	475	476	480	481	485	490	484	482	484	484	485	480	475	461	467	473	468	467	468	466	476
13 Q	485	485	488	490	486	484	483	485	486	490	489	489	488	489	489	479	458	455	467	459	460	468	471	478	479
14	483	492	481	489	491	492	493	493	496	496	495	496	496	502	495	490	487	475	465	468	473	468	468	470	486
15	481	485	484	493	485	471	470	480	491	492	493	497	500	498	496	482	479	465	457	466	478	489	487	489	484
16	484	500	492	489	488	492	492	493	494	494	496	496	499	493	489	493	485	477	466	459	458	465	473	475	485
17	485	488	496	496	497	500	497	501	506	501	496	499	502	503	502	509	495	476	471	469	470	476	484	489	492
18	484	488	486	489	492	488	485	490	488	490	482	493	493	489	499	493	480	458	436	447	458	466	478	473	480
19	480	486	479	469	480	477	479	490	497	502	503	503	505	513	497	485	498	498	491	492	484	477	477	481	489
20	485	490	497	498	491	494	494	495	500	504	514	511	510	508	502	492	487	472	460	469	476	474	481	486	491
21	490	477	481	501	507	491	484	492	496	499	510	500	499	501	500	484	478	469	464	470	477	474	481	482	488
22	479	488	492	495	494	488	499	498	494	500	500	493	497	495	499	491	477	470	461	463	474	485	493	497	488
23 Q	505	502	499	497	494	456	497	498	498	494	496	498	499	500	502	493	481	474	471	473	474	479	488	494	492
24 Q	499	456	493	491	492	496	496	499	496	496	500	499	499	499	498	492	487	478	475	469	468	469	479	489	490
25 Q	495	501	504	504	502	504	502	500	501	503	497	501	501	505	508	499	488	484	484	486	491	495	498	511	499
26	513	522	482	484	482	486	502	484	493	491	493	502	504	502	494	491	488	486	500	494	480	474	484	499	493
27 D	501	516	487	482	475	466	459	437	454	470	455	495	481	481	489	484	484	482	467	466	467	473	487	491	477
28	504	499	496	494	491	492	494	495	493	493	497	495	492	482	490	493	475	460	460	471	474	479	485	479	487
29	483	489	488	492	487	491	492	491	490	496	495	494	495	495	498	499	489	477	462	460	463	467	475	489	486
30	485	495	497	496	497	499	500	499	501	504	507	503	503	507	508	497	481	465	454	452	451	468	477	494	489
31	505	490	483	487	489	488	488	484	490	496	495	498	496	501	498	491	479	469	464	460	468	473	482	494	486
MEAN	491	494	492	494	491	489	489	488	488	490	491	488	486	488	486	483	476	468	461	460	466	469	485	485	483

RECORD OF OBSERVATIONS AT VICTORIA MAGNETIC OBSERVATORY 1972

DECLINATION

MEAN VALUES FOR PERIODS OF SIXTY MINUTES, UNIVERSAL TIME

TABLE 23 VICTORIA		D = 22 DEG 00.0 MIN EAST +																				AUGUST		1972		MEAN
HCUR =	00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	
	TO	TO	TO	TO	TO	TO	TO	TO	TO	TO	TO	TO	TO	TO	TO	TO	TO	TO	TO	TO	TO	TO	TO	TO	TO	TO
	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24		
DAY																										
1	12.2	12.5	12.2	14.2	17.2	17.5	18.0	16.5	17.1	17.5	18.7	19.1	21.5	22.8	24.9	26.2	25.8	23.8	19.8	15.6	14.0	13.0	14.1	15.3	17.9	
2	16.7	16.9	17.0	17.1	17.8	18.5	18.3	18.6	19.7	20.4	19.4	20.4	20.1	20.9	21.7	24.0	25.8	24.4	20.7	17.7	14.6	9.9	10.6	13.5	18.5	
3 Q	15.8	16.5	17.5	17.5	17.7	17.0	17.5	17.4	18.9	21.2	20.0	18.8	19.0	19.8	20.4	22.6	25.1	22.8	20.4	16.2	13.0	12.0	11.7	12.0	18.0	
4 D	14.1	14.6	14.9	13.6	21.2	14.6	14.1	17.5	14.7	22.4	21.4	22.4	25.5	26.3	30.2	29.8	30.6	25.9	22.2	19.9	<u>18.9</u>	<u>41.2</u>	<u>29.8-14.3</u>	<u>20.5</u>		
5 D	<u>-12.8</u>	<u>-3.7</u>	<u>-4.5</u>	14.4	39.2	21.4	21.5	10.7	11.5	11.4	5.2	6.9	12.4	16.1	8.4	15.5	24.6	28.5	23.8	19.7	15.1	17.0	16.4	19.6	<u>14.1</u>	
6 D	20.3	15.5	19.9	23.9	42.7	33.6	20.4	24.1	29.7	24.5	20.1	19.9	23.0	20.3	24.0	23.0	21.1	21.4	25.4	22.6	21.8	20.9	20.1	20.4	23.2	
7	21.3	24.4	21.5	23.2	23.4	20.2	16.9	17.8	14.5	17.1	15.7	17.5	21.4	22.5	21.1	25.8	23.4	20.8	16.9	13.6	11.2	10.7	12.1	14.4	18.6	
8	16.6	17.3	17.7	18.2	17.5	17.5	17.6	17.6	17.7	17.9	18.5	19.1	20.0	20.4	21.6	21.5	25.3	24.2	20.2	17.1	15.0	15.1	15.4	15.9	18.5	
9 D	12.6	11.9	14.3	14.4	15.9	35.5	25.6	8.5	21.0	24.2	36.9	31.3	23.4	24.0	31.2	31.4	33.7	31.1	26.5	21.3	17.8	16.9	16.9	16.0	22.6	
10	18.0	18.6	19.2	18.9	19.3	20.9	20.5	22.8	19.6	18.1	16.5	11.8	17.6	20.0	20.8	25.8	27.5	25.9	22.7	18.8	18.1	17.8	15.2	15.9	19.6	
11	16.4	19.2	17.9	20.4	20.3	17.2	17.7	17.6	18.3	19.1	19.4	21.5	17.5	21.3	24.1	26.2	25.7	24.3	22.0	18.4	15.5	12.9	12.6	13.6	19.1	
12	15.3	16.2	16.9	18.5	20.2	13.3	17.3	17.9	18.0	18.5	18.8	18.9	19.8	19.4	21.7	23.2	24.7	25.1	21.9	19.9	18.0	15.8	14.5	14.6	18.9	
13 Q	16.2	17.5	17.9	18.0	18.9	21.5	18.7	17.4	18.4	18.0	18.2	18.8	19.7	20.4	21.5	23.3	24.6	23.5	20.8	18.4	15.7	12.6	12.7	13.9	18.6	
14	14.9	15.1	15.0	16.2	16.7	17.4	17.7	18.0	17.7	17.7	18.0	19.5	21.0	21.2	23.8	25.5	26.0	26.4	21.9	18.3	14.8	12.0	11.7	12.8	18.3	
15	14.7	16.2	13.6	20.8	21.2	22.1	25.2	22.3	26.7	19.0	19.2	17.8	18.9	20.7	22.7	25.1	25.7	25.3	24.5	17.5	12.4	12.0	12.6	12.8	19.7	
16	15.3	13.4	16.7	15.3	16.3	17.2	17.9	21.9	21.4	17.8	17.3	17.6	18.2	19.4	22.0	23.1	25.0	25.0	22.5	18.9	15.2	11.7	11.1	13.1	18.1	
17	15.5	17.3	19.1	17.2	17.4	17.0	17.8	17.9	19.7	17.6	16.7	17.6	17.4	17.2	19.3	19.3	23.8	25.7	25.2	21.4	17.6	15.2	14.5	13.6	13.3	18.1
18	15.9	16.8	17.8	18.1	20.5	18.5	18.5	18.2	19.0	19.6	18.8	19.9	19.1	18.2	22.0	24.9	25.2	23.6	16.9	12.3	10.9	11.6	12.1	12.6	18.0	
19	15.4	16.6	19.2	23.5	19.8	19.4	19.7	22.3	18.3	16.2	17.4	17.7	18.2	17.8	17.7	19.7	21.7	22.0	19.6	18.6	17.1	16.2	16.5	16.3	18.6	
20	16.7	15.6	15.5	16.1	16.6	16.4	16.6	17.6	18.8	18.6	19.3	20.7	20.1	20.6	20.6	21.6	25.2	23.7	21.6	16.0	14.9	13.0	13.6	14.6	18.1	
21	16.1	15.6	18.0	19.3	26.2	22.0	21.4	18.0	18.1	19.1	17.4	19.2	21.4	22.2	22.7	22.3	24.2	23.9	19.7	15.6	15.1	14.3	14.3	15.3	19.2	
22	17.2	17.7	17.1	16.2	16.4	19.5	19.5	16.9	13.2	19.0	18.8	16.6	17.2	19.3	22.0	23.8	24.8	23.1	20.7	17.9	15.2	13.8	14.8	16.0	18.2	
23 Q	16.8	17.7	17.2	17.1	18.6	18.6	18.0	17.5	17.3	18.2	18.6	19.8	20.6	21.8	24.1	24.9	25.2	23.1	20.8	17.6	15.7	13.7	13.6	14.8	18.8	
24 Q	16.5	17.3	17.9	17.6	17.9	18.2	18.5	18.4	18.4	17.8	18.8	19.0	19.9	21.0	23.8	25.7	27.1	24.9	20.1	17.0	15.3	13.8	13.0	13.2	18.8	
25 Q	15.8	17.1	17.6	17.3	17.5	17.4	17.9	19.0	21.8	21.0	21.2	20.6	20.3	20.9	23.6	24.2	26.2	24.1	20.0	17.1	15.5	14.1	14.1	13.4	19.1	
26	14.5	13.3	15.4	13.6	17.4	19.5	27.0	21.1	18.2	19.0	20.7	19.9	20.8	22.1	23.3	24.3	26.2	23.4	20.5	18.4	15.9	13.5	11.8	12.0	18.8	
27 D	13.7	12.9	17.8	16.6	17.3	28.8	29.8	26.8	28.9	24.5	17.3	14.9	17.8	15.5	22.2	23.9	23.7	23.7	23.4	20.5	17.7	15.8	15.5	16.1	20.2	
28	17.3	17.9	18.5	17.5	17.6	17.2	17.4	17.5	18.1	17.9	19.6	19.6	18.8	18.6	21.9	23.9	26.4	22.8	19.2	16.4	14.7	14.0	14.8	15.5	18.5	
29	16.4	18.1	20.3	18.9	18.3	18.3	18.2	18.9	19.3	18.5	18.2	17.8	18.7	20.0	21.7	22.5	23.9	23.9	22.2	16.3	12.4	11.8	13.0	13.3	18.4	
30	16.3	17.5	17.4	17.5	17.8	17.4	17.8	17.7	18.1	16.2	16.5	19.1	19.6	20.3	22.6	25.8	27.5	25.3	22.2	19.4	15.9	14.8	14.2	14.5	18.8	
31	14.6	16.4	18.2	17.7	18.6	20.8	20.0	20.5	20.0	18.5	18.1	18.3	19.6	20.8	23.3	25.7	26.9	25.0	21.3	18.2	16.4	15.1	15.0	14.5	19.3	
MEAN	15.0	15.8	16.8	17.7	20.1	20.0	19.4	18.5	19.0	18.9	18.8	18.8	19.6	20.4	22.3	24.2	25.6	24.4	21.3	17.8	15.5	14.9	14.4	13.7	18.9	

VERTICAL INTENSITY

MEAN VALUES FOR PERIODS OF SIXTY MINUTES, UNIVERSAL TIME

TABLE 24 VICTORIA

Z = 53,000 GAMMA +

AUGUST 1972

HOUR =	00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23	MEAN
	TO 01	TO 02	TO 03	TO 04	TO 05	TO 06	TO 07	TO 08	TO 09	TO 10	TO 11	TO 12	TO 13	TO 14	TO 15	TO 16	TO 17	TO 18	TO 19	TO 20	TO 21	TO 22	TO 23	TO 24	
DAY																									
1	90	96	113	130	133	125	114	105	100	98	101	96	97	93	96	97	91	77	73	70	68	75	86	93	97
2	101	102	99	94	94	93	92	88	90	87	91	90	91	94	95	97	98	91	81	79	71	72	81	83	90
3 Q	85	88	86	85	88	85	85	84	86	83	86	85	88	88	89	87	91	82	72	65	70	75	78	82	83
4 D	87	90	112	137	292	267	264	267	213	171	141	129	111	101	125	123	113	109	97	93	90	127	278	203	156
5 D	186	188	207	221	246	163	159	85	85	27	8	-27	49	60	10	-50	42	97	94	81	125	128	128	128	102
6 D	145	167	190	177	169	182	121	81	44	7	45	51	64	76	84	93	93	87	103	101	108	112	114	116	105
7	132	128	140	141	112	103	88	93	89	92	85	83	89	91	86	94	100	93	78	76	90	94	98	106	99
8	112	106	103	100	102	100	102	100	102	100	101	100	101	101	96	96	101	92	84	81	89	92	98	107	99
9 D	116	115	108	133	194	240	174	53	77	-15	-222	-31	58	76	110	102	99	97	86	85	90	101	106	107	86
10	114	109	109	104	105	108	110	105	100	101	98	72	61	78	80	95	103	95	89	90	87	99	110	114	97
11	124	120	120	122	107	105	105	105	102	81	71	86	91	94	102	99	91	93	92	89	88	95	109	110	100
12	110	106	111	109	110	107	106	104	104	101	101	98	102	101	105	101	101	97	93	89	91	93	101	98	102
13 Q	105	105	105	103	103	99	101	97	102	99	97	97	99	97	96	91	85	74	71	66	72	77	82	93	92
14	98	103	96	96	97	94	95	94	55	95	93	88	90	95	96	98	93	81	75	72	77	77	85	94	91
15	102	104	105	103	102	105	105	96	73	79	96	99	101	102	101	100	100	91	79	62	74	83	90	95	94
16	93	100	103	98	95	94	94	92	86	88	92	90	92	91	89	87	86	82	80	76	76	77	85	94	89
17	99	102	103	95	91	90	88	88	86	77	77	85	90	93	89	87	91	81	71	69	71	79	86	92	87
18	101	103	99	97	95	91	91	90	88	79	63	73	87	89	87	88	83	73	65	66	78	86	96	104	86
19	110	109	111	108	105	103	103	99	95	94	96	94	97	96	90	77	69	70	67	71	77	81	88	91	92
20	100	96	96	94	96	94	93	93	93	92	85	73	81	87	87	78	87	77	68	66	69	74	86	97	86
21	105	101	100	93	89	76	86	91	89	80	76	68	83	84	88	86	85	79	73	73	77	79	88	91	85
22	96	96	95	93	92	93	91	88	73	66	81	79	79	82	84	84	86	83	83	84	88	88	96	96	87
23 Q	95	92	92	90	90	90	91	88	91	88	89	90	91	92	94	92	82	70	66	69	77	75	81	84	86
24 Q	87	87	90	89	90	91	91	91	90	85	84	86	89	89	91	87	86	78	69	64	69	70	76	82	84
25 Q	88	91	92	89	88	86	89	88	83	80	79	80	83	82	84	84	82	78	73	69	75	74	77	81	82
26	81	92	92	99	119	130	102	89	96	94	96	94	93	92	91	88	88	83	79	75	78	77	81	82	91
27 D	85	96	96	101	108	122	83	76	50	62	54	21	51	50	71	94	98	98	98	95	96	96	99	97	83
28	101	96	97	91	91	91	91	91	91	91	88	85	87	81	87	87	83	79	80	81	82	87	86	90	88
29	94	94	99	95	94	92	94	93	93	93	91	88	91	91	93	96	96	82	67	70	78	81	88	94	89
30	102	104	96	91	91	88	89	88	88	88	77	78	87	92	92	87	83	73	72	74	80	87	96	99	88
31	106	102	99	97	96	94	94	88	94	92	93	92	92	94	94	90	85	75	75	72	81	83	92	93	91
MEAN	105	106	109	109	116	113	106	96	92	82	75	77	86	88	90	88	89	84	79	77	82	87	98	100	93

RECORD OF OBSERVATIONS AT VICTORIA MAGNETIC OBSERVATORY 1972

HORIZONTAL INTENSITY

MEAN VALUES FOR PERIODS OF SIXTY MINUTES, UNIVERSAL TIME

TABLE 25 VICTORIA

H = 18,500 GAMMA +

SEPTEMBER 1972

HOUR =	00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23	MEAN	
	TO 01	TO 02	TO 03	TO 04	TO 05	TO 06	TO 07	TO 08	TO 09	TO 10	TO 11	TO 12	TO 13	TO 14	TO 15	TO 16	TO 17	TO 18	TO 19	TO 20	TO 21	TO 22	TO 23	TO 24		
DAY																										
1 Q	491	489	500	501	502	505	502	498	501	507	505	502	504	504	504	495	489	482	480	477	476	477	479	491	494	
2	493	494	497	499	499	498	499	503	503	501	501	504	506	506	506	488	474	472	467	470	479	488	489	481	492	
3	483	489	494	499	501	502	505	506	508	506	512	508	509	506	505	495	484	476	476	479	490	491	504	508	497	
4	507	500	502	504	498	501	507	506	506	504	506	506	503	505	501	494	482	473	468	474	481	495	508	512	498	
5 Q	506	504	503	503	502	500	503	502	504	504	507	506	511	509	509	497	480	468	461	465	478	492	509	514	497	
6	517	507	491	496	505	505	503	502	505	507	510	512	511	512	500	485	478	467	465	468	483	498	502	505	497	
7	507	503	506	506	507	502	503	501	503	506	506	502	504	503	501	496	488	485	482	486	494	507	514	518	501	
8	513	508	505	506	509	509	513	518	523	519	512	515	503	501	502	490	477	467	464	462	469	487	489	494	498	
9	500	495	493	493	495	490	499	501	503	493	498	497	509	510	503	495	479	471	473	476	478	483	485	494	492	
10	498	494	491	491	494	501	514	513	519	523	527	515	515	511	509	499	491	481	480	494	496	499	511	508	503	
11	502	501	500	496	491	490	495	494	491	474	480	495	506	505	505	494	493	486	480	476	476	478	486	494	491	
12	500	500	498	494	494	489	496	498	499	501	497	497	501	504	502	497	489	481	480	486	488	493	499	498	495	
13 D	496	493	491	498	505	499	497	497	505	496	503	508	523	539	516	496	486	453	356	335	423	462	449	466	479	
14 D	460	456	452	443	446	403	424	447	444	448	449	456	460	464	457	450	443	445	439	433	448	459	458	458	448	
15 D	462	468	462	462	473	475	462	457	455	477	446	467	460	481	486	476	474	459	460	467	471	479	476	450	467	
16	467	473	485	490	488	484	488	514	483	470	477	481	486	485	487	484	475	444	449	480	485	475	478	460	479	
17 D	464	466	459	462	457	466	475	480	483	493	498	498	492	486	490	483	470	462	458	464	468	481	486	451	475	
18	461	469	467	475	494	481	484	488	475	478	484	484	483	487	488	479	472	467	464	461	471	483	490	490	478	
19	485	486	485	484	486	494	487	481	494	490	489	489	490	489	488	483	475	468	465	466	473	481	487	490	484	
20 Q	491	491	492	490	493	495	497	495	498	499	500	501	502	500	498	490	477	467	468	473	481	490	501	501	491	
21 Q	496	492	497	495	495	495	496	496	500	498	503	505	505	504	502	495	489	484	481	482	488	492	498	503	495	
22 Q	504	503	503	500	499	502	500	505	503	503	506	507	511	509	504	496	476	470	473	484	486	487	495	498	497	
23	503	502	501	502	501	501	504	503	505	509	516	510	509	509	510	499	485	474	466	469	477	491	489	494	497	
24	492	495	497	487	493	490	489	501	512	490	497	497	496	498	488	478	462	474	471	461	446	463	479	483	485	
25	493	495	497	494	490	497	493	499	500	498	500	503	505	504	504	498	488	474	465	468	480	489	494	493	493	
26	497	498	495	490	489	486	490	491	491	491	493	499	506	502	504	502	491	485	481	473	469	474	486	490	491	
27	485	490	488	485	487	501	493	492	491	492	497	496	500	496	492	495	493	484	469	463	465	478	482	489	488	
28	491	491	499	498	499	502	497	492	487	493	497	504	505	507	506	506	504	500	489	483	479	469	476	482	494	
29 D	485	476	474	468	462	467	471	474	487	476	483	484	485	495	497	486	462	444	446	451	452	457	471	476	472	
30	475	471	473	473	470	467	466	477	485	486	489	491	493	493	492	487	481	471	471	465	468	473	476	479	478	
MEAN	491	490	490	489	491	490	492	494	495	494	496	498	500	501	499	490	480	471	465	466	474	482	488	489	488	

DECLINATION

MEAN VALUES FOR PERIODS OF SIXTY MINUTES. UNIVERSAL TIME

TABLE 26 VICTORIA		D = 22 DEG 00.0 MIN EAST +																				SEPTEMBER 1972				
HOUR =	00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23	MEAN	
	TO 01	TO 02	TO 03	TO 04	TO 05	TO 06	TO 07	TO 08	TO 09	TO 10	TO 11	TO 12	TO 13	TO 14	TO 15	TO 16	TO 17	TO 18	TO 19	TO 20	TO 21	TO 22	TO 23	TO 24		
DAY																										
1	Q	16.0	16.0	16.9	16.6	17.0	18.6	18.6	18.3	17.8	17.4	20.2	19.6	20.5	21.3	23.5	24.9	25.4	24.5	22.3	18.8	16.9	15.9	16.2	16.8	19.2
2		17.5	17.4	16.9	17.2	17.2	17.4	16.9	17.7	21.2	21.4	20.8	19.8	20.1	21.3	23.0	25.6	24.5	19.1	15.3	13.6	12.8	14.2	14.9	15.7	18.4
3		16.2	17.2	16.9	16.4	16.7	16.8	17.0	17.4	18.0	19.5	19.3	19.8	20.1	21.0	22.5	22.5	23.6	22.1	19.8	16.7	14.9	13.5	14.5	15.1	18.2
4		15.6	16.6	16.7	16.7	16.9	17.4	17.1	17.4	17.7	18.1	19.0	19.4	20.3	20.5	22.8	23.9	24.9	23.4	20.5	16.1	14.1	13.1	12.5	13.9	18.1
5	Q	15.5	16.3	16.1	16.2	16.6	16.5	16.6	17.1	18.0	18.8	19.2	19.5	19.8	20.6	22.4	24.9	26.8	23.8	19.5	15.2	12.4	11.5	12.2	13.2	17.9
6		13.5	12.0	12.5	14.7	15.3	14.7	16.9	20.5	18.7	20.1	19.8	20.2	21.1	21.4	23.0	23.7	25.5	21.9	20.5	16.3	14.4	13.6	15.1	16.8	18.0
7		16.8	15.9	15.8	16.5	16.7	16.0	16.7	17.8	18.1	18.3	19.0	18.9	22.3	21.9	22.6	24.3	24.9	21.5	18.3	15.6	14.9	14.8	14.8	15.4	18.2
8		16.2	16.7	16.7	16.9	17.3	17.1	17.3	17.0	17.6	18.1	16.9	17.2	19.5	22.2	25.2	24.8	23.9	21.8	18.3	14.4	12.2	12.1	13.1	15.7	17.8
9		17.8	18.6	18.8	18.1	20.6	19.5	17.4	17.5	19.2	23.5	22.8	23.3	19.6	21.7	22.2	24.2	25.7	24.6	20.4	17.3	15.8	14.7	14.7	15.5	19.7
10		15.9	16.5	17.3	18.3	17.6	16.1	15.8	15.7	16.4	17.3	19.0	19.7	21.1	22.0	23.7	24.5	25.1	25.7	20.4	14.6	13.7	12.9	13.3	14.7	18.2
11		17.1	18.0	17.8	17.2	19.0	17.5	19.5	19.8	19.2	19.7	27.6	15.1	21.7	22.5	22.4	22.0	22.1	22.9	21.2	18.6	16.9	15.9	16.1	16.5	19.4
12		17.1	17.2	17.4	17.6	21.1	17.9	15.2	16.1	18.1	18.3	19.5	17.9	18.0	20.5	22.4	24.1	25.2	23.6	20.0	16.8	16.0	14.6	14.3	15.0	18.5
13	D	16.1	16.8	16.9	18.4	18.2	17.3	18.0	19.3	21.4	18.8	18.5	18.3	17.8	20.0	23.3	27.1	23.1	23.2	25.3	13.8	4.8	8.0	8.5	11.9	17.7
14	D	16.6	19.6	18.4	41.1	43.8	16.7	30.6	18.8	17.9	18.0	19.3	19.4	19.6	19.7	21.2	22.3	24.8	23.5	19.4	18.2	18.1	16.8	16.8	17.1	21.6
15	D	17.1	18.4	20.9	21.8	22.5	18.4	22.4	21.2	20.3	17.9	12.0	21.7	25.9	22.6	25.6	25.5	25.5	24.5	20.1	17.1	16.8	15.7	15.0	16.0	20.2
16		16.0	16.6	18.5	22.1	19.1	17.4	18.9	18.2	17.8	21.7	18.9	19.4	20.0	21.1	23.8	25.3	26.3	24.2	13.3	11.8	11.9	13.0	14.0	13.3	18.4
17	D	14.9	17.9	17.2	21.6	24.3	21.4	21.0	11.7	14.5	18.7	18.3	13.7	17.6	23.0	23.6	24.7	24.1	21.6	16.9	13.4	13.2	14.7	14.4	18.1	18.4
18		16.5	16.3	18.9	23.3	21.4	20.8	17.9	15.2	15.7	16.9	19.1	21.6	21.8	20.2	21.4	21.6	22.0	21.3	20.4	18.6	16.8	15.7	15.2	16.3	19.0
19		18.9	17.9	17.9	18.3	19.4	19.0	18.2	17.8	16.4	18.9	19.3	19.6	20.2	20.5	21.9	22.9	24.0	22.8	20.8	18.3	16.4	15.3	15.4	15.5	19.0
20	Q	16.9	17.0	17.5	17.4	17.7	17.6	17.6	17.4	17.7	17.9	16.8	18.5	19.9	20.5	22.1	22.9	23.0	20.6	17.5	14.7	14.0	14.2	15.1	16.9	18.0
21	Q	18.0	18.4	17.5	17.0	17.1	17.1	17.0	17.1	17.5	17.3	18.4	18.2	19.1	19.6	21.7	23.0	23.4	20.6	17.6	15.3	14.6	14.6	15.6	16.9	18.0
22	Q	17.4	16.8	17.0	17.2	16.9	17.1	16.7	16.8	18.1	19.1	20.3	20.1	20.5	21.1	22.4	23.5	24.0	19.2	14.6	11.9	12.3	12.4	13.9	15.8	17.7
23		17.1	16.6	16.5	16.5	16.9	16.8	16.7	17.0	17.3	17.9	18.9	19.6	14.2	23.8	24.7	25.1	23.1	19.8	18.0	14.2	13.2	13.3	15.4	16.1	17.9
24		17.9	17.6	16.8	20.5	19.9	18.0	19.1	18.5	14.1	17.0	18.0	21.1	21.5	20.6	22.7	21.7	19.5	18.9	17.5	17.9	15.4	12.5	14.1	15.3	18.2
25		16.9	17.1	17.5	17.5	21.1	17.1	17.7	18.0	17.5	17.3	17.9	15.8	19.7	20.1	21.4	23.8	24.5	22.9	20.9	17.2	15.0	13.8	14.3	15.4	18.3
26		16.4	16.6	17.1	17.2	19.2	17.1	17.1	17.5	18.2	18.8	17.3	18.0	17.3	19.5	20.3	22.6	23.7	21.3	19.8	17.9	15.1	13.2	14.5	15.8	18.0
27		16.1	15.9	15.6	16.4	19.2	20.3	19.7	18.9	20.3	20.2	21.2	20.8	20.1	21.3	21.4	21.5	21.5	22.3	21.7	19.1	16.1	14.3	14.3	14.0	18.9
28		15.2	16.4	16.9	17.3	18.2	19.2	17.9	18.4	20.7	19.9	19.7	18.8	17.5	18.7	19.2	21.4	22.8	21.9	21.3	18.6	16.8	13.0	12.3	12.9	18.1
29	D	13.6	15.0	21.3	15.8	18.0	19.5	20.8	21.5	20.0	21.1	21.8	23.1	25.6	21.4	22.5	24.7	21.6	16.8	14.2	13.2	12.8	11.3	13.1	14.1	18.4
30		14.5	13.6	14.9	14.3	16.7	18.2	18.3	19.5	20.0	18.8	18.7	19.0	18.6	19.0	20.3	21.4	22.0	21.1	19.4	16.5	14.6	14.1	13.8	14.5	17.6
MEAN		16.4	16.8	17.3	18.5	19.4	17.8	18.4	17.8	18.2	18.9	19.2	19.2	20.0	21.0	22.5	23.7	23.9	22.0	19.2	16.1	14.4	13.8	14.2	15.3	18.5

VERTICAL INTENSITY

MEAN VALUES FOR PERIODS OF SIXTY MINUTES, UNIVERSAL TIME

TABLE 27 VICTORIA

Z = 53.000 GAMMA +

SEPTEMBER

1972

HOUR =	00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23	MEAN
	TO 01	TO 02	TO 03	TO 04	TO 05	TO 06	TO 07	TO 08	TO 09	TO 10	TO 11	TO 12	TO 13	TO 14	TO 15	TO 16	TO 17	TO 18	TO 19	TO 20	TO 21	TO 22	TO 23	TO 24	
DAY																									
1 Q	92	92	93	92	91	89	86	87	90	86	82	85	88	88	91	90	85	80	74	72	74	76	84	90	86
2	92	91	90	89	89	87	88	87	86	80	83	84	85	86	88	86	78	66	60	65	76	81	88	90	83
3	92	90	89	88	88	86	87	85	87	85	80	80	84	85	87	81	78	74	73	74	81	82	86	86	84
4	87	85	88	87	85	85	86	86	86	84	85	84	84	86	86	85	84	78	76	78	78	80	84	87	84
5 Q	87	85	85	84	86	86	85	86	86	85	85	82	83	81	86	86	81	70	64	64	67	69	75	79	80
6	86	85	86	86	88	88	93	91	95	92	89	86	87	84	85	85	83	77	77	75	79	79	81	82	85
7	82	81	80	81	82	80	82	81	82	81	81	78	73	78	82	82	79	67	66	67	72	73	73	73	77
8	72	70	72	74	76	77	77	77	79	77	73	54	48	55	59	65	66	63	61	60	62	67	72	80	68
9	85	80	79	79	82	80	83	82	79	69	69	70	78	77	74	72	71	68	67	70	77	78	82	81	76
10	81	85	86	87	88	88	86	85	87	83	84	79	78	76	81	80	82	69	58	66	74	79	83	82	80
11	80	75	77	77	80	82	82	81	75	30	48	61	58	73	78	75	69	68	67	67	72	77	81	71	71
12	80	80	80	80	83	81	82	69	77	74	75	76	77	80	82	83	80	72	70	70	76	79	82	80	78
13 D	80	79	79	80	78	78	80	80	75	76	80	79	82	67	25	25	51	62	40	63	97	102	104	104	74
14 D	97	97	140	296	182	50	106	113	109	104	105	105	106	105	106	98	97	98	98	98	106	104	104	103	114
15 D	108	107	110	110	110	84	91	83	91	81	35	44	37	81	96	99	97	90	89	87	92	95	99	95	88
16	104	99	102	100	94	91	94	78	49	54	82	88	93	93	92	91	85	75	73	69	71	79	95	99	85
17 D	109	121	119	113	116	109	99	68	66	85	91	67	47	58	84	90	87	77	77	82	83	87	92	95	88
18	102	104	108	108	97	95	97	80	69	57	54	62	81	87	91	89	91	86	85	82	85	86	91	95	87
19	99	94	95	92	94	89	85	87	84	83	86	85	84	86	89	89	90	82	82	78	78	80	85	82	87
20 Q	88	87	89	88	91	88	88	87	85	86	84	81	82	81	85	85	83	77	76	78	81	86	88	88	85
21 Q	88	86	86	86	86	86	87	85	84	84	84	83	82	80	83	83	78	72	71	75	79	80	84	83	82
22 Q	82	80	83	81	83	83	82	83	79	81	82	82	81	80	83	84	79	74	73	81	84	84	88	85	82
23	80	79	81	81	82	82	84	82	84	83	84	80	54	46	64	69	69	70	73	79	81	83	87	89	77
24	93	87	84	85	88	87	88	82	72	65	73	81	82	82	76	74	72	75	75	71	72	80	88	92	80
25	90	87	86	85	88	85	85	85	83	84	85	77	78	82	83	84	83	78	77	72	76	82	82	79	82
26	79	79	79	79	81	82	83	83	82	82	80	77	72	69	71	74	74	70	72	67	72	74	77	80	77
27	82	83	84	87	89	80	77	81	79	79	75	72	72	71	77	78	78	81	79	71	69	69	72	76	78
28	80	81	82	81	81	80	79	80	80	81	81	81	81	77	78	78	83	81	80	73	69	68	76	85	79
29 D	94	96	106	100	109	110	106	89	52	73	74	74	68	83	90	93	87	78	80	80	83	90	96	94	88
30	97	99	103	105	108	111	107	103	98	93	93	90	90	88	90	90	89	82	80	78	82	83	85	85	93
MEAN	89	88	91	95	93	86	88	84	81	79	79	78	77	79	81	81	81	75	73	74	78	81	85	87	83

HORIZONTAL INTENSITY

MEAN VALUES FOR PERIODS OF SIXTY MINUTES, UNIVERSAL TIME

TABLE 28 VICTORIA

H = 18.500 GAMMA +

OCTOBER

1972

HOUR =	00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23	MEAN	
	TO 01	TO 02	TO 03	TO 04	TO 05	TO 06	TO 07	TO 08	TO 09	TO 10	TO 11	TO 12	TO 13	TO 14	TO 15	TO 16	TO 17	TO 18	TO 19	TO 20	TO 21	TO 22	TO 23	TO 24		
DAY																										
1	484	480	474	480	486	486	487	492	493	499	501	502	501	502	499	498	490	485	490	487	478	476	474	485	491	488
2	488	494	497	497	495	495	496	497	499	501	502	501	502	502	502	497	499	494	486	469	476	482	482	489	490	494
3 Q	496	501	501	503	503	501	502	502	504	504	505	506	504	505	503	499	495	493	482	477	481	485	501	499	498	
4	490	482	491	495	497	497	498	495	508	501	495	496	503	499	499	492	488	481	478	480	486	491	496	492	493	
5 Q	493	497	499	499	498	497	497	497	496	498	498	501	500	500	499	497	489	486	485	483	482	480	486	492	492	494
6 Q	492	494	500	500	498	497	497	499	499	501	503	506	504	502	500	495	489	485	483	486	491	492	493	495	496	
7	496	498	501	501	500	498	499	499	500	501	509	511	508	510	512	509	501	495	495	489	493	501	498	478	500	
8 Q	488	498	496	495	496	496	494	496	498	501	502	503	503	504	504	498	495	492	480	470	475	482	490	495	494	
9	500	503	505	502	503	499	500	504	505	505	508	509	511	509	507	501	500	494	486	486	496	494	494	489	500	
10	486	486	494	500	503	501	502	504	502	504	510	507	511	513	503	501	499	492	496	492	497	494	492	486	499	
11	487	477	460	467	456	466	458	460	470	497	492	489	492	484	492	478	478	478	470	464	471	481	490	495	477	
12	504	502	500	501	501	502	501	504	506	505	507	506	505	505	501	496	473	475	458	424	457	481	485	467	490	
13 D	440	451	464	482	485	479	478	480	488	484	488	489	493	495	481	487	487	482	470	458	463	464	478	492	477	
14 D	458	466	469	481	478	469	483	484	488	503	478	491	491	487	470	465	462	469	451	456	464	468	477	488	475	
15	489	492	490	484	489	489	483	487	485	489	493	493	491	493	497	491	486	479	470	468	465	478	486	476	485	
16	499	486	482	472	471	477	485	482	491	485	493	483	499	492	492	482	485	478	473	471	473	479	482	484	483	
17 Q	546	489	492	490	492	491	493	491	494	495	496	497	501	500	501	497	492	486	481	477	475	479	489	492	493	
18	496	499	501	498	499	502	500	489	483	473	493	490	498	496	496	495	489	486	500	498	497	500	484	494	494	
19 D	483	468	443	438	438	449	457	467	425	451	464	466	489	494	483	488	483	472	478	470	484	497	499	493	470	
20	486	473	471	472	469	456	469	471	466	489	489	493	495	497	498	493	488	480	474	478	487	491	487	480	481	
21	477	478	485	478	480	472	468	473	482	488	490	489	491	493	487	487	477	461	466	476	477	480	486	485	480	
22	480	488	495	493	492	483	495	483	485	488	488	485	501	498	503	498	489	471	459	450	446	438	451	471	480	
23	481	478	471	476	478	481	482	482	478	466	487	493	491	490	488	492	487	477	465	452	440	452	471	475	476	
24	529	478	476	480	481	482	491	500	494	495	498	501	501	499	490	485	484	471	476	472	464	464	473	484	486	
25	491	492	496	494	496	490	483	477	485	486	491	501	490	498	500	489	489	480	480	474	472	478	482	486	488	
26	493	492	492	486	491	481	483	480	496	494	497	494	500	503	505	500	484	467	457	457	470	479	488	486	486	
27	479	488	492	494	496	494	498	496	499	500	503	499	504	501	499	493	488	469	470	463	464	470	481	492	489	
28	502	499	501	497	492	471	475	481	507	497	472	491	491	493	494	487	477	465	453	452	454	464	471	473	482	
29 D	479	487	491	488	484	474	491	465	462	467	479	484	488	489	490	488	493	482	470	456	447	466	471	469	478	
30	466	482	484	479	473	473	470	464	443	444	459	461	466	495	496	494	484	471	467	463	462	464	474	473	471	
31 D	474	481	490	487	489	489	489	491	492	491	491	492	493	487	489	483	485	488	429	416	442	459	483	475	479	
MEAN	489	486	487	487	487	485	487	487	488	490	493	494	497	498	496	492	487	480	473	468	472	478	484	485	486	

DECLINATION

MEAN VALUES FOR PERIODS OF SIXTY MINUTES, UNIVERSAL TIME

TABLE 29 VICTORIA

D = 22 DEG 00.0 MIN EAST +

OCTOBER

1972

HCUR =	00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23	MEAN
	TO	TO	TO	TO	TO	TO	TO	TO	TO	TO	TO	TO	TO	TO	TO	TO	TO	TO	TO	TO	TO	TO	TO	TO	
	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	
DAY																									
1	15.3	16.5	15.7	16.1	17.0	17.5	18.5	17.2	17.5	16.9	17.3	17.4	17.7	18.4	18.8	20.1	21.1	19.3	19.7	18.0	15.4	13.7	13.3	13.6	17.2
2	15.7	15.9	16.4	16.3	17.0	17.1	17.7	17.8	18.1	17.9	18.2	18.1	18.9	18.4	20.3	20.9	21.9	21.9	22.0	20.3	16.9	15.3	14.4	14.9	18.0
3 Q	15.3	15.7	16.6	17.2	17.3	17.0	17.5	17.7	18.0	18.5	18.8	18.9	19.0	19.4	20.8	22.3	22.5	21.3	20.3	18.3	15.6	14.2	11.7	12.5	17.8
4	13.0	12.3	15.8	16.7	17.0	18.5	17.4	18.0	16.2	18.2	21.9	19.7	20.4	19.8	20.3	21.1	22.0	21.4	19.6	17.4	16.1	15.3	15.9	15.9	17.9
5 Q	16.4	16.5	17.2	17.6	17.7	17.7	17.7	17.6	18.2	18.5	18.7	18.7	19.0	19.3	20.3	21.1	21.3	21.4	19.6	18.5	17.5	16.7	16.6	16.2	18.3
6 Q	16.2	16.5	16.9	17.2	17.5	17.3	17.5	17.3	17.5	17.7	17.9	18.2	18.5	18.7	19.3	20.4	21.1	20.7	19.4	17.0	15.2	14.2	15.3	15.7	17.6
7	15.9	15.7	16.7	17.0	17.3	17.7	17.3	17.3	17.6	17.8	18.1	18.9	19.0	17.8	20.7	21.7	23.0	21.5	19.7	16.6	14.6	12.6	12.2	12.6	17.5
8 Q	13.9	16.5	16.9	17.2	17.8	17.9	17.8	17.5	18.0	18.1	18.2	18.4	18.7	19.3	20.7	21.6	23.1	22.8	21.2	18.4	17.0	15.0	14.5	14.7	18.1
9	15.7	16.4	17.1	17.4	17.7	18.0	18.0	17.1	17.5	17.7	18.3	18.4	18.8	19.3	20.4	21.2	21.8	21.8	18.9	15.6	12.8	12.2	12.0	13.8	17.4
10	15.2	15.7	16.2	17.3	17.6	17.4	17.5	17.3	18.2	17.7	20.9	20.7	16.5	18.5	18.6	20.2	22.3	20.5	18.4	18.4	16.0	14.3	13.7	13.0	17.6
11	14.0	13.7	16.3	19.5	18.9	18.1	20.3	20.1	21.1	24.1	22.5	20.3	19.3	19.6	17.2	18.3	21.4	22.0	21.9	19.6	16.8	15.8	15.9	15.7	18.8
12	17.1	17.5	17.8	17.9	18.2	18.1	18.3	17.9	17.9	17.6	17.8	18.0	14.0	15.7	20.4	22.1	23.4	21.6	18.7	18.0	13.3	14.9	13.9	16.6	17.8
13 D	15.8	15.3	18.1	22.3	19.5	18.1	18.5	18.4	19.0	16.8	16.2	17.3	18.9	17.5	15.4	19.7	21.0	21.3	18.9	14.7	13.1	13.2	15.8	15.1	17.5
14 D	17.9	19.3	16.5	17.9	18.5	24.3	20.7	18.7	20.5	19.5	22.2	18.2	19.0	17.8	15.4	14.4	16.0	19.7	20.9	19.2	16.6	15.1	14.7	16.2	18.3
15	16.8	17.6	18.4	18.0	20.7	20.1	18.1	17.6	17.8	17.8	18.3	17.8	20.2	19.2	20.2	21.9	22.7	21.7	20.4	16.9	15.6	14.9	14.4	16.2	18.5
16	17.4	17.6	17.5	20.4	20.6	18.1	17.5	18.2	16.2	16.5	18.0	19.8	20.2	18.7	20.7	21.1	20.8	20.7	20.3	18.2	16.5	15.8	15.9	16.4	18.5
17 Q	17.2	16.8	17.4	17.7	17.8	18.0	18.0	17.6	18.4	18.3	18.6	18.1	18.7	18.1	18.7	20.3	21.8	22.5	21.0	18.5	16.3	15.2	14.9	15.0	18.1
18	15.3	15.7	16.6	17.2	17.6	18.9	17.9	20.5	23.6	19.2	28.2	24.4	21.3	20.4	20.2	20.1	20.6	21.8	19.2	16.2	14.6	13.2	14.0	9.9	18.6
19 D	9.8	13.9	11.1	26.7	22.1	19.7	21.6	11.2	22.1	25.7	30.8	21.8	15.8	17.4	14.2	14.0	18.6	16.9	18.0	16.3	15.2	15.9	17.2	18.2	18.1
20	18.8	18.5	17.9	18.3	19.1	23.9	19.6	19.1	15.7	22.2	20.4	19.5	17.2	17.6	19.8	17.2	17.2	18.9	17.8	16.2	16.3	17.3	17.1	17.4	18.5
21	18.0	17.6	18.1	20.1	20.0	19.2	20.8	18.8	12.9	19.1	19.9	18.2	13.8	17.3	17.5	18.9	19.0	17.0	16.2	13.0	14.0	15.3	15.4	15.4	17.3
22	17.2	17.7	17.4	17.6	17.3	17.4	18.4	19.2	19.0	19.5	19.9	15.4	15.1	19.5	20.1	19.2	19.8	20.5	19.0	18.5	16.0	14.7	14.2	16.9	17.9
23	17.6	17.3	19.2	17.9	17.2	18.0	18.2	18.2	24.7	24.0	16.8	17.3	17.2	14.3	13.6	16.4	19.9	22.7	20.2	18.1	16.6	15.5	15.7	16.8	18.1
24	17.3	17.3	18.9	18.5	17.6	19.0	19.0	17.0	18.3	18.5	18.7	16.0	16.1	18.4	18.9	17.5	20.7	19.7	17.0	14.7	14.5	15.2	16.2	16.7	17.6
25	17.4	17.4	17.3	17.2	17.4	17.3	19.8	17.0	20.4	18.8	15.8	16.7	13.5	15.8	19.1	20.9	22.9	22.5	21.7	19.2	18.0	16.6	16.1	16.4	18.1
26	17.1	16.5	16.9	17.6	17.3	19.6	21.7	17.2	18.9	19.8	18.5	19.6	20.7	20.7	21.0	22.2	22.9	22.6	18.8	14.3	12.7	13.0	13.4	15.3	18.3
27	16.2	16.7	17.8	17.7	17.8	17.5	17.4	17.4	17.6	17.4	17.8	17.7	18.3	18.9	19.4	19.7	22.6	22.9	19.8	17.8	16.2	14.6	13.8	15.3	17.8
28	14.5	15.0	16.3	16.6	16.7	18.6	17.6	19.9	19.9	20.4	22.4	20.5	18.1	19.1	19.7	21.2	22.9	21.9	20.1	17.7	16.4	15.0	14.7	15.5	18.4
29 D	16.3	16.2	17.2	17.3	20.0	19.0	22.1	21.1	24.6	23.4	23.7	26.1	21.1	17.5	15.4	12.9	20.3	22.8	21.9	19.9	17.6	17.3	16.2	18.3	19.5
30	17.9	17.5	17.7	17.6	19.7	26.1	20.3	23.2	23.3	29.7	30.6	26.4	14.3	19.7	20.4	21.3	21.2	22.4	21.1	20.6	20.0	19.1	17.5	16.6	21.0
31 D	16.5	17.0	16.7	16.6	17.3	17.2	17.8	17.9	18.3	18.3	18.7	18.1	18.5	18.9	18.9	19.2	20.1	22.3	26.8	4.1	5.9	10.8	15.0	14.9	16.9
MEAN	16.1	16.4	17.0	18.1	18.2	18.8	18.7	18.1	18.9	19.5	20.1	19.2	18.0	18.4	18.9	19.6	21.2	21.2	20.0	17.1	15.5	14.9	14.9	15.4	18.1

VERTICAL INTENSITY

MEAN VALUES FOR PERIODS OF SIXTY MINUTES, UNIVERSAL TIME

TABLE 30 VICTORIA

Z = 53,000 GAMMA +

OCTOBER

1972

HOUR =	00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23	MEAN
	TO 01	TO 02	TO 03	TO 04	TO 05	TO 06	TO 07	TO 08	TO 09	TO 10	TO 11	TO 12	TO 13	TO 14	TO 15	TO 16	TO 17	TO 18	TO 19	TO 20	TO 21	TO 22	TO 23	TO 24	
DAY																									
1	90	92	93	93	94	90	91	87	87	86	85	83	84	83	85	85	85	81	80	78	78	78	82	83	86
2	84	84	87	87	86	84	84	82	83	83	82	81	82	82	81	83	83	82	81	72	71	70	75	77	81
3 Q	79	83	83	83	84	82	83	82	81	80	80	79	80	80	83	84	84	79	71	71	71	70	74	78	79
4	82	82	89	90	88	86	83	84	79	62	62	73	77	79	83	84	87	84	83	76	72	71	78	78	80
5 Q	80	81	81	82	81	81	81	79	81	79	80	78	79	79	80	80	82	80	77	71	68	65	69	71	78
6 Q	75	78	80	79	81	79	80	79	79	78	78	76	76	76	77	79	80	76	74	70	72	72	75	75	77
7	72	76	77	78	79	79	80	79	79	77	79	77	75	73	73	76	75	72	68	59	58	63	68	67	73
8 Q	74	77	78	79	80	79	81	80	79	80	80	77	78	76	79	79	80	77	72	68	67	66	68	71	76
9	74	75	76	74	76	76	78	76	78	77	77	76	76	73	75	75	76	72	67	63	65	68	72	72	74
10	76	78	82	80	80	78	80	80	81	77	65	66	67	58	67	71	76	73	68	61	57	58	67	75	72
11	64	80	97	115	111	109	112	105	96	60	63	69	48	46	69	73	80	82	79	75	76	77	79	80	81
12	64	92	93	92	93	93	94	94	94	95	94	95	93	75	55	64	80	80	79	64	62	78	85	89	84
13 D	104	109	114	107	95	88	88	86	86	70	45	57	71	74	74	82	76	73	63	62	70	78	94	96	82
14 D	95	105	101	99	99	96	93	89	80	40	57	73	78	79	74	68	67	73	67	67	70	75	83	87	80
15	86	86	86	84	86	81	83	83	83	83	85	81	76	81	84	86	83	79	76	76	78	82	87	89	83
16	89	88	90	94	99	98	95	90	87	77	64	57	58	61	72	79	82	75	72	73	73	77	81	84	80
17 Q	88	87	87	86	85	84	84	82	82	81	81	81	82	81	83	83	82	78	70	67	67	72	76	77	80
18	82	82	84	84	84	83	82	82	76	44	46	63	71	72	80	83	82	82	76	72	72	71	75	79	75
19 D	84	101	132	169	139	127	123	59	37	18	19	15	8	38	59	60	73	81	84	87	90	90	88	85	78
20	86	88	90	92	94	97	97	88	57	64	83	86	81	79	81	83	84	85	81	82	84	85	83	83	84
21	85	84	87	89	92	93	97	92	72	70	81	77	73	67	80	78	85	81	80	81	85	87	89	88	83
22	85	89	88	88	89	90	92	84	89	85	79	63	53	64	72	73	79	76	66	65	70	72	83	89	78
23	92	94	98	103	102	100	101	94	78	77	83	81	80	72	69	80	85	87	82	76	79	89	97	95	87
24	97	93	95	96	98	99	97	87	86	87	87	83	75	78	78	81	83	78	73	76	81	85	90	88	86
25	88	86	86	86	84	85	86	86	87	81	76	69	62	57	67	75	79	80	77	73	78	81	84	84	79
26	85	84	85	85	86	87	89	87	82	73	78	78	75	77	78	80	78	71	64	64	69	75	80	79	79
27	82	82	82	81	81	81	80	80	81	81	82	80	80	80	81	80	83	81	79	76	78	77	76	80	80
28	85	83	84	83	86	90	96	98	92	45	38	67	81	84	87	85	84	80	77	76	77	78	82	85	80
29 D	87	87	87	85	85	84	48	45	53	57	53	60	63	64	65	53	65	71	72	67	75	80	80	85	70
30	87	90	90	89	87	85	83	77	62	42	34	36	4	19	64	75	78	78	76	73	72	75	80	81	68
31 D	83	85	87	85	84	84	84	84	82	83	81	82	81	82	80	81	83	82	78	54	62	67	73	80	79
MEAN	84	86	89	91	90	89	88	83	79	71	70	71	69	70	76	78	80	78	73	71	73	76	80	82	79

RECORD OF OBSERVATIONS AT VICTORIA MAGNETIC OBSERVATORY 1972

HORIZONTAL INTENSITY

MEAN VALUES FOR PERIODS OF SIXTY MINUTES, UNIVERSAL TIME

TABLE 31 VICTORIA		H = 18.500 GAMMA +																				NOVEMBER				1972
HOUR =	00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23	MEAN	
	TO	TO	TO	TO	TO	TO	TO	TO	TO	TO	TO	TO	TO	TO	TO	TO	TO	TO	TO	TO	TO	TO	TO	TO		
	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24		
DAY																										
1 D	476	484	486	557	425	404	375	311	210	133	9999	330	346	408	452	439	431	439	448	468	473	478	476	481	414	
2 D	460	466	452	415	443	459	466	455	463	465	462	471	471	473	473	470	446	409	429	438	422	403	425	400	447	
3	423	466	477	479	478	485	473	471	475	478	480	484	486	485	484	479	473	462	457	452	453	459	472	478	471	
4	478	485	489	489	487	483	487	486	490	492	493	495	494	495	495	491	481	473	476	469	468	470	478	479	484	
5 Q	490	492	496	495	498	496	497	495	496	496	495	495	497	497	497	495	490	476	477	471	473	475	485	490	490	
6	497	497	499	497	498	499	498	499	502	500	499	499	503	505	508	502	502	496	493	488	486	486	495	498	498	
7	502	503	504	499	496	491	490	491	490	485	493	498	499	498	502	498	499	493	491	485	483	479	483	486	493	
8	494	489	492	489	495	492	493	493	496	492	500	499	495	497	499	495	493	491	483	476	480	487	490	486	492	
9	497	497	497	492	491	493	492	487	492	488	490	494	504	498	502	490	493	486	481	477	473	476	488	489	490	
10 Q	456	498	499	498	491	491	494	495	497	498	495	498	494	506	501	499	497	490	484	478	479	484	492	497	494	
11	498	498	492	497	499	499	503	504	504	504	505	504	507	502	507	514	508	498	487	476	477	482	484	491	498	
12	501	500	497	494	494	494	497	499	496	498	501	503	502	504	501	496	497	492	489	481	479	484	489	492	495	
13 Q	517	495	499	499	494	493	493	493	498	497	500	499	500	499	497	498	499	495	483	474	469	474	486	493	494	
14 Q	497	499	499	498	499	495	494	495	495	494	497	500	498	500	504	507	504	494	491	482	479	482	489	490	495	
15 D	498	503	507	504	496	487	496	496	497	499	497	504	503	501	484	482	509	497	482	474	473	480	479	469	492	
16 D	473	479	486	478	441	466	477	484	483	478	473	471	471	471	498	503	487	476	478	470	465	465	463	459	475	
17	516	488	488	484	487	482	483	483	484	478	488	492	489	491	499	487	498	498	482	466	449	467	481	483	485	
18	486	480	485	484	484	480	471	480	488	483	489	487	493	496	489	488	501	495	482	477	475	476	481	481	485	
19	485	486	483	488	487	488	483	486	494	488	492	491	494	493	491	490	493	492	486	480	467	473	481	485	487	
20 D	484	477	460	462	473	478	475	460	457	473	482	491	493	485	490	503	496	488	454	436	463	468	468	476	475	
21	455	479	479	464	477	481	486	489	486	485	486	489	492	492	492	488	486	476	467	460	461	471	482	488	481	
22	492	495	497	497	495	491	491	492	494	493	499	491	487	502	503	471	482	436	465	464	460	458	466	477	483	
23	486	478	487	489	487	485	487	485	485	484	488	489	488	493	496	492	491	492	484	470	468	474	483	490	485	
24	498	502	504	504	494	494	492	495	496	496	497	499	498	498	500	499	495	487	478	472	474	482	493	498	494	
25	506	507	508	504	500	500	498	456	500	501	501	496	504	500	505	504	504	494	483	478	473	474	478	478	496	
26	473	468	483	488	489	490	488	486	485	488	488	488	488	493	495	494	491	486	487	479	473	475	481	488	485	
27	486	484	496	497	500	499	496	496	495	495	496	497	500	499	500	482	487	486	485	473	459	463	472	482	489	
28	487	490	495	496	492	493	455	495	496	497	498	504	502	488	510	490	493	495	490	471	468	470	474	482	490	
29	486	486	478	473	489	480	484	483	493	489	487	487	490	492	494	492	493	490	483	469	471	479	481	482	485	
30 Q	492	496	497	497	497	495	494	493	495	495	496	496	502	505	503	500	503	496	484	472	468	476	488	490	493	
MEAN	489	489	490	490	486	485	485	482	481	478	489	488	490	492	496	491	491	483	478	471	469	472	479	482	484	

DECLINATION

MEAN VALUES FOR PERIODS OF SIXTY MINUTES, UNIVERSAL TIME

TABLE 32 VICTORIA

D = 22 DEG 00.0 MIN EAST +

NOVEMBER 1972

HOUR =	00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23	MEAN
TO	TO	TO	TO	TO	TO	TO	TO	TO	TO	TO	TO	TO	TO	TO	TO	TO	TO	TO	TO	TO	TO	TO	TO	TO	
	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	
DAY																									
1 D	17.2	17.1	15.7	24.1	26.5	28.7	57.7	28.0	31.5	18.2	31.7	27.0	19.5	14.3	20.6	22.2	24.0	23.5	22.9	19.6	18.8	17.4	18.5	18.5	23.5
2 D	19.3	16.3	19.7	23.7	19.7	18.2	18.0	17.5	18.6	18.6	19.2	18.9	17.6	20.0	20.3	21.3	22.8	17.2	14.2	14.7	17.2	15.4	13.9	16.6	18.3
3	17.3	18.2	19.5	20.0	20.7	22.0	18.4	19.3	18.9	17.1	16.9	17.7	18.5	18.7	19.7	21.0	22.8	23.4	22.6	19.8	17.7	15.6	15.7	16.1	19.1
4	16.8	16.6	17.3	18.0	18.3	18.2	18.3	18.0	17.9	17.9	18.2	18.2	18.3	18.5	19.3	20.4	21.4	19.5	17.6	16.0	15.1	14.4	14.4	15.5	17.7
5 Q	16.3	17.1	17.5	17.6	17.9	17.6	17.9	17.7	18.1	17.8	18.2	18.1	18.4	18.2	18.6	19.5	21.6	21.6	20.7	18.9	17.0	15.2	15.3	15.7	18.0
6	16.2	16.8	17.3	18.4	17.3	17.4	17.5	17.5	17.8	17.3	18.9	17.9	18.6	18.5	19.3	20.0	21.1	20.1	19.0	18.4	17.7	18.0	17.1	16.6	18.1
7	17.0	17.0	17.6	17.7	18.1	19.2	19.8	19.6	18.4	12.8	20.3	16.6	20.5	21.2	20.4	21.1	21.0	19.3	18.0	16.9	16.0	15.3	16.1	16.2	18.2
8	17.3	17.9	18.3	18.0	18.1	18.8	17.4	16.7	16.8	17.2	16.1	17.6	17.7	17.2	18.6	18.9	19.1	18.7	17.8	16.0	15.7	15.4	15.2	16.3	17.4
9	16.8	17.5	17.9	18.2	18.6	18.8	18.2	17.7	17.3	17.4	18.6	15.4	19.6	20.0	20.7	19.8	22.0	21.2	18.7	17.0	16.6	15.6	15.5	16.1	18.1
10 Q	16.4	17.0	17.7	18.0	19.1	18.3	18.0	17.1	17.2	17.3	17.2	17.8	15.2	17.5	20.1	20.4	21.3	20.1	19.2	17.9	17.0	15.4	15.2	15.4	17.7
11	16.1	17.3	19.2	18.2	18.4	18.1	17.8	17.0	16.9	16.6	16.9	17.2	17.7	18.1	15.5	17.8	21.2	21.5	19.8	18.0	16.5	15.6	15.8	15.7	17.6
12	16.3	16.6	17.1	17.9	18.2	18.5	18.3	20.5	18.5	17.2	17.4	18.5	16.6	17.2	18.0	19.4	19.6	20.3	19.8	18.0	17.1	16.2	15.8	16.0	17.9
13 Q	16.1	16.9	17.8	17.6	17.8	17.9	18.8	17.8	16.9	16.9	17.3	17.4	17.8	17.9	18.4	19.6	21.5	21.7	20.9	19.7	18.0	16.5	16.1	15.6	18.0
14 Q	16.1	16.6	16.9	17.4	17.6	17.4	17.3	18.9	18.7	17.6	17.0	17.5	17.4	16.8	18.3	19.3	20.8	20.9	20.8	19.1	17.5	16.3	15.9	15.7	17.8
15 D	16.0	16.8	17.1	17.4	18.1	20.0	17.1	18.1	18.2	17.8	16.7	15.1	20.7	18.0	15.6	7.5	12.9	18.4	20.8	17.9	16.2	13.8	14.8	15.6	16.7
16 D	15.6	15.0	18.4	18.4	24.0	22.3	20.4	22.0	22.9	20.9	21.6	19.7	15.9	12.3	19.6	20.6	20.0	18.7	20.2	17.9	18.4	17.4	17.8	18.8	19.1
17	18.1	17.9	18.7	20.3	20.9	19.6	19.7	19.7	20.4	20.7	14.5	17.7	21.1	19.5	19.8	19.6	17.9	19.2	19.8	19.2	17.5	16.2	16.2	16.6	18.8
18	18.2	18.8	18.9	18.9	19.5	19.1	21.8	20.1	19.1	19.5	18.1	19.4	18.2	18.2	17.7	16.4	18.0	18.5	18.5	17.8	17.9	18.1	17.6	17.1	18.6
19	17.5	17.5	19.5	19.1	19.0	18.0	18.7	20.5	20.0	17.0	18.9	17.9	20.6	19.7	18.7	18.6	20.2	20.6	19.3	18.3	17.5	17.0	17.7	16.8	18.7
20 D	18.3	20.1	20.2	18.8	19.4	17.9	18.6	21.2	21.7	16.7	22.0	19.0	18.9	16.4	7.0	14.3	20.7	21.6	18.4	14.2	15.4	15.0	17.2	18.0	18.0
21	19.7	19.9	18.1	23.2	21.1	19.1	18.4	16.7	16.7	16.8	18.1	18.4	18.9	18.4	18.8	19.4	21.4	20.8	20.0	18.1	17.0	16.2	15.8	15.8	18.6
22	17.2	17.8	18.4	18.6	18.5	18.3	17.9	17.4	17.6	17.8	17.2	18.3	15.7	13.2	15.2	14.3	14.2	13.4	9.8	12.1	14.0	15.8	16.7	16.5	16.1
23	16.6	17.1	18.1	17.8	19.1	19.2	19.2	18.4	18.4	18.1	18.5	19.5	15.6	17.9	22.6	21.8	19.5	21.5	19.9	18.3	16.7	14.6	15.3	14.9	18.3
24	16.3	17.0	17.7	17.6	18.3	18.5	18.3	18.0	18.7	17.9	17.7	17.4	17.5	18.1	18.4	19.5	21.2	21.5	19.5	17.8	16.2	14.9	15.2	14.7	17.8
25	16.4	17.4	18.0	17.8	17.9	17.9	18.0	17.8	17.3	17.1	18.7	16.7	18.0	18.9	19.5	20.0	20.4	20.2	18.4	17.3	16.5	15.3	14.8	14.1	17.7
26	15.8	14.7	18.6	18.9	19.4	19.0	18.9	18.6	19.3	19.2	16.3	19.7	20.1	17.8	18.8	19.7	20.7	20.1	19.0	18.7	18.6	16.7	16.4	15.7	18.4
27	15.9	16.1	17.3	18.2	18.4	18.5	18.3	18.3	18.1	18.2	18.8	18.0	18.0	18.3	18.7	15.8	10.9	13.0	14.1	15.6	18.0	16.9	17.4	17.3	17.0
28	17.1	17.9	18.4	18.4	18.5	20.2	18.2	17.9	18.0	17.5	17.5	17.3	19.2	20.0	16.8	17.5	14.0	16.1	16.4	14.9	13.6	13.6	14.5	13.8	17.0
29	15.1	16.1	16.8	21.3	21.4	19.2	18.9	18.9	18.8	19.5	18.7	18.5	18.2	17.3	18.0	18.7	20.5	21.2	21.0	18.9	15.9	16.2	16.7	16.4	18.4
30 Q	16.4	17.3	18.1	18.2	18.6	18.4	18.4	18.3	18.3	17.9	17.9	17.5	17.5	17.7	18.1	18.2	19.5	20.4	20.4	19.2	17.2	16.0	16.0	16.0	18.0
MEAN	16.8	17.2	18.1	18.9	19.3	19.1	19.8	18.8	18.9	17.7	18.5	18.2	18.2	17.9	18.4	18.8	19.7	19.8	18.9	17.5	16.8	15.9	16.0	16.1	18.1

VERTICAL INTENSITY

MEAN VALUES FOR PERIODS OF SIXTY MINUTES, UNIVERSAL TIME

TABLE 33 VICTORIA

Z = 53,000 GAMMA +

NOVEMBER 1972

HOUR	00		01		02		03		04		05		06		07		08		09		10		11		12		13		14		15		16		17		18		19		20		21		22		23		MEAN
	TO	TO	TO	TO	TO	TO	TO	TO	TO	TO	TO	TO	TO	TO	TO	TO	TO	TO	TO	TO	TO	TO	TO	TO	TO	TO	TO	TO	TO	TO	TO	TO	TO	TO	TO	TO	TO	TO	TO	TO	TO	TO	TO	TO					
DAY	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24																									
1 D	85	94	181	398	250	173	-19	-45	-175	-275	-238	-179	-94	5	107	117	111	106	98	90	84	81	86	91	47																								
2 D	92	93	98	118	125	108	100	96	97	92	91	85	86	91	96	92	86	78	81	79	85	92	107	111	95																								
3	125	126	120	109	109	101	95	94	94	91	87	90	92	93	93	95	96	95	91	88	87	88	92	92	98																								
4	90	93	95	93	94	92	93	89	90	89	88	87	87	88	88	92	93	88	86	80	80	81	83	84	88																								
5 Q	88	91	91	90	92	89	90	88	87	86	86	84	85	84	86	89	90	86	85	81	82	82	85	86	87																								
6	87	86	87	88	88	87	87	86	86	84	83	84	83	83	84	84	85	78	73	70	74	76	77	77	82																								
7	81	80	81	81	82	83	85	85	85	58	40	55	68	77	82	84	82	76	72	72	75	79	82	81	76																								
8	85	85	88	84	85	86	87	84	86	83	80	78	79	77	81	83	86	83	80	78	80	84	86	82	83																								
9	84	84	82	82	82	84	83	84	84	80	78	72	71	75	77	79	85	82	77	77	76	79	82	82	80																								
10 Q	83	83	83	81	82	82	83	83	82	79	79	80	76	74	79	81	80	75	75	77	78	78	81	80	80																								
11	81	82	84	82	82	80	81	78	77	76	76	75	74	73	70	62	62	64	65	67	69	71	73	76	74																								
12	81	79	79	78	79	79	80	65	74	77	79	76	73	71	73	72	75	73	74	72	76	77	78	77	76																								
13 Q	80	78	79	78	77	76	78	76	76	75	77	75	77	75	75	77	79	76	72	72	73	75	78	79	76																								
14 Q	81	79	80	78	76	76	76	75	74	74	75	76	75	76	76	78	76	75	71	67	65	67	71	74	75																								
15 D	77	77	78	76	75	78	78	77	76	75	66	52	53	63	60	44	40	47	54	58	65	68	72	75	66																								
16 D	85	89	90	89	103	115	98	72	26	44	42	28	14	-12	40	68	71	73	77	77	76	80	83	85	67																								
17	89	87	86	85	87	84	83	80	75	66	52	47	55	61	71	68	80	78	76	75	73	79	82	83	75																								
18	86	84	88	86	86	84	82	80	72	73	71	68	75	78	76	74	78	75	70	71	73	77	77	76	78																								
19	79	79	83	84	86	85	86	83	77	69	74	68	66	73	73	72	72	71	70	70	69	74	74	76	76																								
20 D	77	78	86	91	92	88	83	81	72	28	44	73	75	70	27	3	37	57	53	61	76	79	79	81	66																								
21	82	87	85	88	91	86	80	70	63	70	75	77	77	78	77	77	79	76	75	75	75	77	78	78	78																								
22	79	80	81	79	79	79	79	79	79	77	72	69	64	58	47	43	52	54	57	60	67	75	81	82	70																								
23	83	81	84	85	83	82	85	83	84	81	82	78	68	54	65	72	70	72	69	68	69	73	76	75	76																								
24	78	78	81	76	77	76	76	77	77	74	75	74	73	73	74	76	76	73	68	66	68	69	76	75	74																								
25	77	76	75	74	75	75	74	75	73	74	74	68	66	70	72	70	69	62	58	62	64	67	70	75	71																								
26	82	91	102	91	85	82	81	79	79	75	60	59	65	72	75	73	75	70	67	66	67	69	74	77	76																								
27	78	79	81	79	79	76	74	74	74	74	73	73	74	75	74	67	64	57	58	59	67	70	73	80	72																								
28	81	81	80	78	78	77	77	75	75	74	73	74	66	58	41	42	47	49	49	50	57	63	70	75	66																								
29	79	83	85	91	93	84	83	78	75	60	63	69	74	75	75	77	80	78	77	75	73	72	78	77	77																								
30 Q	81	81	81	80	80	78	77	75	76	74	74	74	75	74	73	75	77	73	71	69	66	70	73	73	75																								
MEAN	84	85	89	96	92	88	80	76	69	62	62	63	66	69	73	73	75	73	72	71	73	76	79	81	76																								

HORIZONTAL INTENSITY

MEAN VALUES FOR PERIODS OF SIXTY MINUTES, UNIVERSAL TIME

TABLE 34 VICTORIA

H = 18,500 GAMMA +

DECEMBER 1972

HOUR =	00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23	MEAN	
	TO 01	TO 02	TO 03	TO 04	TO 05	TO 06	TO 07	TO 08	TO 09	TO 10	TO 11	TO 12	TO 13	TO 14	TO 15	TO 16	TO 17	TO 18	TO 19	TO 20	TO 21	TO 22	TO 23	TO 24		
DAY																										
1	494	494	485	482	482	480	479	474	485	488	489	489	495	496	497	497	497	491	486	479	479	481	488	493	488	
2	497	499	499	496	494	494	499	491	489	495	493	497	500	500	504	507	505	491	488	478	481	485	492	499	495	
3	505	504	502	497	498	498	499	496	500	500	500	501	503	503	502	498	502	499	497	487	483	485	495	499	498	
4	502	504	505	501	502	499	488	483	491	494	497	499	499	498	498	495	497	495	490	488	486	485	489	495	495	
5 Q	500	501	499	497	497	496	499	497	496	499	500	499	500	502	502	504	504	502	499	490	487	491	495	499	498	
6 Q	504	506	507	506	505	504	504	500	502	504	508	507	511	508	511	511	512	505	499	491	489	493	503	503	504	
7	500	497	495	495	492	493	498	501	502	506	508	500	507	507	504	504	504	503	499	488	489	494	500	504	500	
8	507	503	502	496	496	493	497	492	500	495	494	497	498	499	494	495	501	497	491	482	483	486	484	491	495	
9	503	507	508	506	504	504	500	500	502	500	501	504	505	504	506	502	501	501	497	487	484	485	489	493	500	
10 Q	500	505	501	501	501	498	497	494	494	492	497	497	499	500	500	501	498	493	486	484	490	494	497	497	497	
11	502	502	503	503	504	501	498	499	499	499	499	500	501	504	507	506	506	498	492	485	486	487	494	499	499	
12	508	509	515	509	505	504	503	505	504	505	507	508	512	509	512	512	515	505	496	490	489	501	514	505	506	
13 D	475	483	492	490	489	464	470	474	485	503	477	503	491	492	486	481	477	472	488	474	461	438	464	475	479	
14	479	483	486	482	479	485	483	479	485	484	491	489	484	490	497	493	498	499	493	484	479	484	483	487	487	
15 D	492	497	498	498	490	498	498	494	487	512	495	477	480	476	494	492	492	495	492	492	475	433	435	467	486	
16 D	478	471	455	442	475	471	458	474	466	462	460	491	487	488	487	487	477	477	459	478	477	476	468	459	472	
17	477	485	484	480	479	481	475	492	486	476	463	488	486	489	495	494	488	488	482	474	468	468	475	480	481	
18	489	489	488	486	486	490	498	487	483	486	492	486	489	494	490	495	493	490	486	479	472	475	487	494	488	
19	500	500	499	494	492	493	492	491	494	491	497	496	496	495	496	500	499	486	490	479	475	476	476	481	491	
20	492	497	496	491	493	492	491	489	490	490	498	496	499	499	498	499	501	499	493	484	480	478	488	495	493	
21 Q	498	500	499	496	496	493	494	493	492	493	494	495	496	500	502	503	505	503	494	485	479	482	491	502	495	
22	509	513	515	511	510	506	505	504	507	511	511	511	506	514	509	503	514	511	499	476	482	482	477	479	503	
23 D	497	491	468	491	504	491	470	471	488	487	487	494	494	495	501	491	500	487	474	455	473	475	478	489	485	
24	488	471	491	489	496	487	475	476	481	485	490	493	494	495	496	497	498	493	488	479	477	479	484	486	487	
25	496	503	505	502	500	498	498	496	496	496	499	499	503	505	506	508	506	505	501	491	486	481	488	497	499	
26	504	504	501	495	497	497	496	496	496	497	496	496	493	493	494	497	504	501	496	491	482	478	481	489	494	495
27 Q	496	499	500	496	494	495	496	495	495	497	496	496	497	498	498	501	500	501	499	491	482	478	485	493	502	495
28	507	504	507	506	505	505	504	507	507	505	505	506	508	506	510	510	511	509	505	499	494	492	495	499	504	
29	499	505	504	504	494	497	499	497	502	495	498	503	506	504	502	495	498	512	505	490	485	482	475	487	497	
30 D	497	494	486	484	487	486	485	488	485	503	495	497	494	497	500	501	499	500	499	488	450	456	483	489	489	
31	491	493	490	485	483	485	484	486	489	486	503	497	498	494	498	498	501	498	492	492	493	490	486	465	491	
MEAN	496	497	496	494	494	493	491	491	493	495	495	497	498	499	500	499	500	497	492	484	480	480	486	490	493	

RECORD OF OBSERVATIONS AT VICTORIA MAGNETIC OBSERVATORY 1972

DECLINATION

MEAN VALUES FOR PERIODS OF SIXTY MINUTES, UNIVERSAL TIME

TABLE 35 VICTORIA

D = 22 DEG 00.0 MIN EAST +

DECEMBER 1972

HOUR =	00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23	MEAN
TO	TO	TO	TO	TO	TO	TO	TO	TO	TO	TO	TO	TO	TO	TO	TO	TO	TO	TO	TO	TO	TO	TO	TO	TO	
	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	
DAY																									
1	16.2	17.3	18.2	17.8	19.8	18.7	20.3	20.1	18.9	17.9	18.4	17.8	18.0	18.4	18.5	19.3	20.0	20.7	19.7	19.3	18.6	17.5	17.1	16.6	18.5
2	16.5	17.6	18.2	18.3	18.3	18.4	19.6	17.8	19.0	19.0	18.7	18.5	18.3	18.1	17.8	18.5	20.1	19.1	17.8	18.5	17.9	16.4	16.2	15.5	18.1
3	16.2	16.9	17.3	17.5	17.8	18.3	17.9	17.9	17.8	17.7	18.4	18.3	18.9	18.1	18.7	18.9	19.2	18.8	18.5	17.8	16.5	15.4	15.8	16.7	17.7
4	17.2	17.4	17.9	18.3	18.5	18.0	18.1	19.4	18.5	18.3	18.3	18.2	18.7	18.6	18.7	18.8	19.3	19.7	19.5	18.2	18.0	16.6	16.3	16.1	18.2
5 Q	17.1	17.3	18.0	18.1	18.2	18.3	17.9	18.0	18.0	17.7	17.9	18.0	17.7	17.6	17.9	18.0	18.7	19.4	19.4	18.7	17.8	16.7	16.3	16.2	17.9
6 Q	16.9	17.3	17.7	18.7	18.4	18.3	18.2	17.9	17.9	17.3	17.2	17.2	17.8	17.5	18.2	18.5	19.5	20.4	19.7	18.4	17.3	16.3	15.5	15.7	17.8
7	16.9	17.5	17.5	18.3	18.7	18.8	19.2	18.2	18.0	18.9	18.6	18.8	19.2	20.0	19.6	19.3	20.1	20.2	19.1	17.5	16.6	15.7	15.5	15.9	18.3
8	17.0	17.4	18.1	18.1	18.5	18.9	17.5	17.7	17.1	17.8	17.2	18.4	18.6	18.6	18.7	17.6	19.6	19.3	18.7	18.2	16.8	15.6	15.1	15.3	17.7
9	16.4	17.1	17.9	18.1	18.6	18.4	18.4	17.9	17.7	17.3	17.3	17.4	17.5	17.9	18.2	18.6	19.0	20.2	19.2	18.4	17.8	16.0	15.7	15.1	17.8
10 Q	16.2	16.7	17.2	18.1	18.8	18.1	18.3	18.4	17.6	17.3	17.6	17.5	17.7	17.6	18.2	18.3	19.3	19.4	19.6	18.0	16.8	16.1	16.5	16.2	17.7
11	16.1	16.7	18.3	17.7	18.0	17.6	17.7	17.5	17.5	17.7	17.6	17.3	17.8	17.5	17.9	18.3	19.5	20.5	19.5	17.7	16.1	15.5	15.4	15.5	17.5
12	16.6	17.3	17.5	17.9	18.2	18.1	18.9	17.6	17.5	17.5	17.4	17.4	17.6	17.5	18.0	18.5	19.8	20.7	19.9	18.8	17.4	16.0	15.6	14.9	17.8
13 D	14.2	14.5	17.1	18.7	19.7	24.8	21.8	21.1	20.3	20.2	26.6	21.9	21.2	17.8	13.8	14.9	13.1	15.3	14.0	14.2	14.6	14.5	11.9	14.4	17.5
14	18.7	18.6	18.6	18.8	18.8	19.5	18.0	19.3	19.2	17.7	16.4	18.7	15.7	13.3	17.9	17.8	16.7	18.7	18.8	18.6	18.1	16.8	17.0	16.9	17.9
15 D	17.7	17.6	17.9	18.3	18.5	17.7	17.3	18.0	19.5	15.7	23.0	26.8	27.2	17.8	18.3	17.9	18.8	19.0	17.1	14.8	15.0	16.9	16.5	16.4	18.5
16 D	17.9	17.2	19.3	28.6	19.6	18.7	21.5	29.4	20.3	16.1	11.7	15.9	23.1	18.1	18.9	18.4	15.7	11.8	13.8	16.6	16.1	16.3	16.2	16.9	18.3
17	16.7	18.2	18.5	18.6	19.0	19.0	20.1	18.0	18.4	19.5	13.0	17.5	19.3	14.1	19.8	18.7	18.4	18.1	16.9	17.7	18.4	17.1	17.3	17.4	17.9
18	17.5	17.5	17.8	18.0	18.1	17.9	16.6	17.3	17.8	17.1	17.2	17.8	17.7	18.7	18.7	16.9	17.7	18.9	19.1	19.1	18.9	18.0	17.4	16.6	17.8
19	16.8	17.5	17.8	18.0	18.2	19.6	19.0	18.1	18.0	18.1	17.6	16.9	18.1	17.6	17.0	16.4	18.5	18.6	17.4	17.7	16.3	15.7	15.9	15.5	17.5
20	17.1	17.4	18.1	19.2	18.7	18.5	18.5	17.9	18.1	17.8	19.0	19.7	19.8	18.7	18.9	18.7	18.3	18.1	18.3	17.9	17.1	15.5	16.2	16.1	18.1
21 Q	16.8	17.3	18.0	18.1	18.4	18.1	18.0	17.6	17.5	17.4	17.4	17.3	17.3	15.4	17.3	18.5	19.8	20.2	20.1	19.0	18.1	16.9	16.1	15.4	17.7
22	16.1	16.8	17.5	17.8	18.1	17.8	18.1	17.6	17.3	17.0	17.1	17.6	16.2	18.1	20.1	18.0	20.5	18.8	18.5	18.3	15.2	14.3	15.9	12.7	17.3
23 D	15.1	14.1	14.9	16.5	15.7	18.4	23.6	22.5	17.9	17.1	17.5	18.2	19.7	16.9	19.8	18.5	20.3	19.5	20.6	19.5	16.5	15.0	15.8	16.0	17.9
24	16.1	18.4	20.6	17.9	18.3	18.3	20.4	22.2	20.2	18.9	17.7	18.2	18.1	18.1	18.1	18.3	18.8	18.6	18.7	18.1	17.0	15.7	15.9	15.7	18.3
25	16.8	17.3	17.7	18.0	18.5	18.6	18.7	18.3	18.1	17.3	17.4	17.4	17.5	17.8	17.8	18.5	19.2	19.9	20.1	18.9	17.8	17.5	17.1	16.2	18.0
26	16.6	17.7	18.2	18.3	18.5	18.4	18.4	18.1	17.3	17.7	18.7	19.4	18.5	18.3	16.9	17.9	19.3	20.2	20.5	19.2	18.0	16.3	15.7	15.8	18.1
27 Q	16.3	16.6	17.6	17.8	18.6	18.0	18.2	17.9	17.9	17.7	17.3	17.5	17.7	17.8	17.7	18.1	19.0	20.4	20.3	19.3	17.8	16.5	15.9	15.2	17.8
28	16.1	17.1	17.7	18.0	18.4	18.1	18.0	17.7	17.9	17.5	17.5	17.5	17.7	18.6	17.8	18.1	19.2	19.6	19.2	17.9	17.2	16.6	14.2	14.5	17.6
29	15.0	14.8	15.5	17.2	17.0	16.9	17.5	18.3	20.0	18.8	17.1	16.9	17.8	17.1	18.7	17.0	16.0	18.1	19.4	19.3	18.1	17.2	14.0	15.7	17.2
30 D	17.1	16.0	15.7	17.5	18.0	18.0	18.7	18.9	19.4	20.3	18.3	19.2	17.6	15.6	16.8	17.3	17.4	18.5	17.2	18.9	19.0	12.1	16.0	16.6	17.5
31	16.9	17.7	17.6	17.1	17.6	18.1	18.8	17.8	18.4	22.5	16.8	18.8	20.8	17.2	17.3	18.3	18.3	18.6	18.2	17.1	16.5	17.1	16.3	15.8	17.9
MEAN	16.6	17.1	17.7	18.4	18.4	18.5	18.8	18.9	18.4	18.0	17.8	18.3	18.7	17.6	18.1	18.1	18.7	19.0	18.7	18.1	17.2	16.1	15.9	15.8	17.9

VERTICAL INTENSITY

MEAN VALUES FOR PERIODS OF SIXTY MINUTES, UNIVERSAL TIME

TABLE 36 VICTORIA

Z = 53.000 GAMMA +

DECEMBER 1972

HOUR =	00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23	MEAN
	TO 01	TO 02	TO 03	TO 04	TO 05	TO 06	TO 07	TO 08	TO 09	TO 10	TO 11	TO 12	TO 13	TO 14	TO 15	TO 16	TO 17	TO 18	TO 19	TO 20	TO 21	TO 22	TO 23	TO 24	
DAY																									
1	78	79	78	80	83	82	84	81	82	78	78	76	76	76	75	77	79	75	72	70	70	70	73	73	77
2	75	76	76	76	75	76	74	71	70	68	71	72	73	73	74	76	77	74	73	71	70	68	72	72	73
3	73	74	74	74	77	76	75	73	74	71	71	71	71	72	72	71	74	71	71	68	69	70	70	71	72
4	72	73	75	72	75	75	75	77	79	77	76	75	73	72	72	74	74	73	72	72	72	71	72	72	74
5 Q	74	74	73	73	74	74	73	73	73	72	71	70	70	70	70	71	73	72	70	70	69	71	71	71	72
6 Q	72	71	71	71	71	71	71	71	71	70	70	68	69	68	69	69	72	70	66	67	66	67	67	66	69
7	71	70	73	76	78	79	81	78	77	74	73	70	69	67	69	71	75	73	70	69	69	71	72	71	73
8	66	70	70	69	72	74	75	75	75	74	72	73	72	72	71	74	78	74	74	74	73	73	71	72	73
9	73	71	71	69	70	70	70	70	70	68	69	69	69	67	68	67	70	70	66	65	68	68	70	71	69
10 Q	72	72	71	70	71	70	71	73	72	71	72	72	71	71	71	70	72	71	71	70	72	71	72	71	71
11	73	71	72	71	70	69	69	69	70	70	69	70	69	70	69	69	67	66	63	60	62	64	68	68	68
12	72	70	70	69	68	67	68	69	69	71	69	70	69	67	68	67	69	67	64	63	62	63	65	63	67
13 D	65	75	79	76	75	81	90	81	73	41	44	31	44	53	45	48	48	54	62	65	67	68	78	83	64
14	84	84	83	82	86	84	83	82	80	80	76	73	71	68	66	68	74	69	66	69	73	74	76	77	76
15 D	77	77	76	75	75	77	74	71	71	37	14	30	21	8	38	61	69	68	63	61	62	60	88	88	60
16 D	90	88	94	104	106	95	89	74	75	69	20	20	32	62	68	75	72	66	61	72	69	72	70	74	72
17	82	81	81	80	84	81	81	72	64	64	50	58	59	47	59	69	70	68	64	66	68	68	71	73	69
18	74	75	75	76	76	76	72	71	72	70	67	66	69	66	64	72	74	76	76	75	73	74	74	73	72
19	74	73	72	72	73	74	74	72	72	72	72	66	68	68	72	73	73	72	69	68	67	68	70	71	71
20	76	77	77	77	80	79	79	77	77	76	71	69	69	71	72	73	73	72	72	72	72	73	74	74	74
21 Q	75	74	73	72	73	73	73	73	72	72	71	69	69	67	68	71	72	71	68	68	68	69	71	70	71
22	72	72	70	69	69	69	69	69	68	67	66	60	45	51	59	65	60	58	55	56	58	64	70	64	64
23 D	77	77	81	91	94	93	100	89	86	80	78	75	72	72	69	70	76	68	68	66	74	74	76	79	79
24	81	81	89	83	82	80	83	79	79	80	80	79	78	75	76	74	77	75	74	73	72	75	76	77	78
25	81	79	77	75	75	73	73	74	73	72	74	74	75	72	73	71	70	67	65	62	65	67	71	74	72
26	75	73	72	71	72	70	72	71	71	66	66	66	65	66	70	71	72	71	68	69	67	71	74	75	70
27 Q	77	76	76	75	75	74	74	73	73	73	73	74	74	73	74	73	75	74	71	69	68	72	77	77	74
28	74	73	72	70	70	68	68	68	69	67	69	69	62	62	65	67	66	66	64	62	61	63	64	67	67
29	70	72	73	74	78	79	77	75	71	66	69	68	66	67	64	62	58	60	61	62	63	66	65	71	68
30 D	74	75	77	80	82	81	81	81	78	73	57	65	65	66	68	68	70	70	66	65	57	66	73	73	71
31	74	73	75	77	78	78	82	81	77	72	62	53	61	66	69	70	72	70	67	69	69	67	67	65	71
MEAN	75	75	76	76	77	76	77	75	74	70	66	65	66	65	67	69	71	69	68	67	68	69	72	73	71

RECORD OF OBSERVATIONS AT VICTORIA MAGNETIC OBSERVATORY 1972

MEAN VALUES OF MAGNETIC ELEMENTS
HORIZONTAL INTENSITY (GAMMAS) (ALL DAYS)

TABLE 37	VICTORIA												H = 18,500 GAMMA +				1972		
	U.T.	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	YEAR	SUMMER	EQUINOX	WINTER		
0- 1	480	479	481	491	498	500	494	491	491	489	489	496	490	496	488	486			
1- 2	481	481	481	492	494	505	495	494	490	486	489	497	490	497	487	487			
2- 3	478	482	483	494	492	505	495	492	490	487	490	496	490	496	489	487			
3- 4	479	481	483	491	492	493	494	494	489	487	490	494	489	493	488	486			
4- 5	478	483	482	491	493	489	494	491	491	487	486	494	488	492	488	485			
5- 6	479	482	482	492	494	488	494	489	490	485	485	493	488	491	487	485			
6- 7	477	481	483	493	496	487	495	489	492	487	485	491	488	492	489	484			
7- 8	476	481	484	494	498	488	497	488	494	487	482	491	488	493	490	483			
8- 9	477	481	487	496	500	488	497	488	495	488	481	493	489	493	492	483			
9-10	477	483	491	496	500	491	499	490	494	490	478	495	490	495	493	483			
10-11	478	482	491	496	501	489	500	491	496	493	489	495	492	495	494	486			
11-12	479	483	492	497	500	488	501	488	498	494	488	497	492	494	495	487			
12-13	481	487	492	498	501	493	504	486	500	497	490	498	494	496	497	489			
13-14	483	488	493	498	503	495	507	488	501	498	492	499	495	498	498	491			
14-15	482	486	492	497	502	498	509	486	499	496	496	500	495	499	496	491			
15-16	480	487	488	491	496	494	505	483	490	492	491	499	491	495	490	489			
16-17	479	485	483	483	490	489	497	476	480	487	491	500	487	488	483	489			
17-18	474	476	477	473	484	481	485	468	471	480	483	497	479	480	475	483			
18-19	465	468	466	469	481	478	480	461	465	473	478	492	473	475	468	476			
19-20	458	462	459	469	478	477	477	460	466	468	471	484	469	473	466	469			
20-21	457	459	457	472	482	478	478	466	474	472	469	480	470	476	469	466			
21-22	462	459	461	476	484	480	483	469	482	478	472	480	474	479	474	468			
22-23	470	464	466	481	488	486	488	485	488	484	479	486	481	487	480	475			
23-24	475	472	476	486	491	489	491	485	489	485	482	490	484	489	484	480			
MEAN	475	478	480	488	493	489	494	483	488	486	484	493	486	490	486	483			

MEAN VALUES OF MAGNETIC ELEMENTS

DECLINATION (MINUTES) (ALL DAYS)

TABLE 38 VICTORIA

Ø = 22 DEG 00.0 MIN EAST +

1972

U.T.	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	YEAR	SUMMER	EQUINOX	WINTER
0- 1	18.5	17.8	15.9	15.2	14.4	13.7	14.9	15.0	16.4	16.1	16.8	16.6	16.0	14.5	15.9	17.4
1- 2	19.4	18.4	17.0	16.2	16.1	15.1	16.1	15.8	16.8	16.4	17.2	17.1	16.8	15.8	16.6	18.0
2- 3	20.2	19.3	17.7	17.4	17.9	17.2	17.2	16.8	17.3	17.0	18.1	17.7	17.8	17.3	17.4	18.8
3- 4	20.5	19.8	18.5	18.1	18.6	18.7	17.8	17.7	18.5	18.1	18.9	18.4	18.6	18.2	18.3	19.4
4- 5	21.3	20.4	19.2	18.7	18.8	19.3	18.3	20.1	19.4	18.2	19.3	18.4	19.3	19.1	18.9	19.8
5- 6	21.3	20.7	20.3	19.3	18.9	19.3	18.7	20.0	17.8	18.8	19.1	18.5	19.4	19.2	19.0	19.9
6- 7	21.3	21.0	20.6	19.7	18.8	19.4	18.7	19.4	18.4	18.7	19.8	18.8	19.5	19.1	19.3	20.2
7- 8	21.3	20.7	20.6	19.8	18.7	19.3	18.5	18.5	17.8	18.1	18.8	18.9	19.3	18.8	19.1	19.9
8- 9	20.8	20.5	20.4	20.4	19.1	19.3	18.3	19.0	18.2	18.9	18.9	18.4	19.4	18.9	19.5	19.6
9-10	20.3	20.3	20.7	21.0	19.1	19.0	18.1	18.9	18.9	19.5	17.7	18.0	19.3	18.8	20.0	19.1
10-11	20.5	21.0	21.1	21.0	19.1	18.6	18.3	18.8	19.2	20.1	18.5	17.8	19.5	18.7	20.4	19.5
11-12	20.9	21.3	21.3	21.1	19.2	18.4	19.2	18.8	19.2	19.2	18.2	18.3	19.6	18.9	20.2	19.7
12-13	20.3	20.8	20.9	21.3	20.4	19.9	20.2	19.6	20.0	18.0	18.2	18.7	19.9	20.0	20.0	19.5
13-14	19.8	20.9	20.8	21.9	21.9	21.5	21.8	20.4	21.0	18.4	17.9	17.6	20.3	21.4	20.5	19.0
14-15	20.1	20.6	21.4	23.1	23.6	23.3	23.9	22.3	22.5	18.9	18.4	18.1	21.3	23.3	21.5	19.3
15-16	20.4	21.4	22.7	24.1	25.1	25.0	25.3	24.2	23.7	19.6	18.8	18.1	22.4	24.9	22.5	19.7
16-17	21.4	23.4	23.7	24.6	25.3	25.6	25.7	25.6	23.9	21.2	19.7	18.7	23.2	25.6	23.3	20.8
17-18	22.4	24.0	24.2	23.7	23.9	24.5	24.1	24.4	22.0	21.2	19.8	19.0	22.8	24.2	22.8	21.3
18-19	22.3	22.9	23.0	21.3	21.5	21.3	20.9	21.3	19.2	20.0	18.9	18.7	21.0	21.3	20.9	20.7
19-20	21.0	21.2	20.5	18.4	18.4	18.4	17.2	17.8	16.1	17.1	17.5	18.1	18.5	18.0	18.0	19.5
20-21	19.6	19.8	18.7	16.7	15.4	15.6	14.2	15.5	14.4	15.5	16.8	17.2	16.6	15.2	16.3	18.4
21-22	18.1	18.4	17.3	15.3	13.9	13.7	12.6	14.9	13.8	14.9	15.9	16.1	15.4	13.8	15.3	17.1
22-23	17.6	17.4	16.2	14.6	13.1	12.9	12.5	14.4	14.2	14.9	16.0	15.9	15.0	13.2	15.0	16.7
23-24	18.0	16.8	15.5	14.6	13.1	12.9	13.3	13.7	15.3	15.4	16.1	15.8	15.1	13.3	15.2	16.7
MEAN	20.3	20.4	19.9	19.5	18.9	18.8	18.6	18.9	18.5	18.1	18.1	17.9	19.0	18.8	19.0	19.2

MEAN VALUES OF MAGNETIC ELEMENTS
VERTICAL INTENSITY (GAMMAS) (ALL DAYS)

U.T.	Z = 53,000 GAMMA +												1972			
	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	YEAR	SUMMER	EQUINOX	WINTER
0- 1	101	98	97	93	94	101	94	105	89	84	84	75	93	99	91	90
1- 2	102	100	100	96	98	108	97	106	88	86	85	75	95	102	93	91
2- 3	103	100	102	98	98	111	98	109	91	89	89	76	97	104	95	92
3- 4	104	101	103	98	95	103	95	109	95	91	96	76	97	101	97	94
4- 5	104	101	104	98	92	97	95	116	93	90	92	77	96	100	96	94
5- 6	104	100	104	97	91	91	91	113	86	89	88	76	94	97	94	92
6- 7	102	100	102	94	90	87	89	106	88	88	80	77	92	93	93	90
7- 8	101	99	98	92	89	83	87	96	84	83	76	75	89	89	89	88
8- 9	99	97	95	88	85	76	88	92	81	79	69	74	85	85	86	85
9-10	97	94	92	85	82	78	86	82	79	71	62	70	81	82	82	81
10-11	93	92	90	82	84	72	84	75	79	70	62	66	79	79	80	78
11-12	91	89	86	80	83	73	85	77	78	71	63	65	79	80	79	77
12-13	89	86	85	78	85	77	88	86	77	69	66	66	79	84	77	77
13-14	86	86	88	79	85	77	88	88	79	70	69	65	80	85	79	77
14-15	85	87	90	81	84	79	89	90	81	76	73	67	82	86	82	78
15-16	86	89	92	81	82	79	86	88	81	78	73	69	82	84	83	79
16-17	91	94	90	81	78	76	83	89	81	80	75	71	82	82	83	83
17-18	93	93	87	77	72	70	76	84	75	78	73	69	79	76	79	82
18-19	93	90	82	75	67	62	71	79	73	73	72	68	75	70	76	81
19-20	94	88	81	75	65	61	67	77	74	71	71	67	74	68	75	80
20-21	95	89	83	78	69	65	68	82	78	73	73	68	77	71	78	81
21-22	96	89	86	81	74	70	72	87	81	76	76	69	80	76	81	83
22-23	97	92	89	85	79	77	79	98	85	80	79	72	84	83	85	85
23-24	98	94	93	88	86	86	87	100	87	82	81	73	88	90	88	87
MEAN	96	94	92	86	84	82	85	93	83	79	76	71	85	86	85	84

MEAN VALUES OF MAGNETIC ELEMENTS
HORIZONTAL INTENSITY (GAMMAS) (QUIET DAYS)

TABLE 40	VICTORIA												H = 18,500 GAMMA +				1972
	U.T.	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	YEAR	SUMMER	EQUINOX	WINTER
0- 1	493	482	481	490	493	496	496	496	498	503	498	500	494	495	493	493	
1- 2	493	487	486	492	494	494	497	496	496	496	496	502	494	495	493	495	
2- 3	491	487	488	496	495	495	496	495	499	498	498	501	495	495	495	494	
3- 4	490	488	490	497	494	499	496	496	498	497	497	499	495	496	496	494	
4- 5	489	489	491	497	493	501	496	495	498	497	496	499	495	496	496	493	
5- 6	489	487	490	497	494	501	495	496	499	496	494	497	495	497	496	492	
6- 7	487	488	490	499	497	498	497	496	500	497	494	498	495	497	497	492	
7- 8	486	487	492	500	500	500	498	497	499	497	494	496	496	499	497	491	
8- 9	486	487	492	504	501	501	500	497	501	499	496	496	497	500	499	491	
9-10	487	486	494	505	501	502	500	497	502	500	496	497	497	500	500	492	
10-11	487	488	493	507	501	504	500	496	504	501	497	499	498	500	501	493	
11-12	488	489	494	509	502	502	501	498	504	502	498	499	499	501	502	494	
12-13	488	491	494	509	503	504	505	499	507	502	498	501	500	503	503	495	
13-14	490	492	496	507	506	507	510	500	505	502	501	501	502	506	503	496	
14-15	490	492	495	505	504	506	511	501	503	501	500	503	501	506	501	496	
15-16	491	490	493	497	494	497	504	494	495	496	500	504	496	497	495	496	
16-17	490	485	486	487	484	486	496	482	482	491	499	505	489	487	487	495	
17-18	484	473	476	478	478	476	481	476	474	488	490	501	481	478	479	487	
18-19	473	464	469	477	481	474	474	476	473	482	484	495	477	476	475	479	
19-20	467	459	467	482	487	477	475	473	476	478	475	487	475	478	476	472	
20-21	465	459	465	489	493	482	477	475	482	480	474	483	477	482	479	470	
21-22	472	462	469	492	493	486	483	479	488	485	478	488	481	485	484	475	
22-23	482	468	473	494	494	494	488	487	496	493	488	495	488	491	489	483	
23-24	490	481	481	495	496	499	495	494	501	495	492	501	493	496	493	491	
MEAN	485	482	485	496	495	495	495	491	495	495	493	498	492	494	493	490	

MEAN VALUES OF MAGNETIC ELEMENTS
DECLINATION (MINUTES) (QUIET DAYS)

TABLE 41	VICTORIA												D = 22 DEG 00.0 MIN EAST +				1972
U.T.	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	YEAR	SUMMER	EQUINOX	WINTER	
0- 1	18.2	18.2	17.6	16.7	15.4	15.2	15.7	16.2	16.8	15.8	16.3	16.7	16.6	15.6	16.7	17.3	
1- 2	19.2	18.6	18.0	17.2	16.5	15.9	17.0	17.2	16.9	16.4	17.0	17.0	17.2	16.7	17.1	18.0	
2- 3	19.8	19.1	18.5	17.8	17.6	17.0	18.1	17.6	17.0	17.0	17.6	17.7	17.9	17.6	17.6	18.6	
3- 4	20.3	19.5	19.0	18.2	18.5	17.5	18.1	17.5	16.9	17.4	17.8	18.2	18.2	17.9	17.9	18.9	
4- 5	20.6	19.6	19.3	18.4	18.6	18.2	18.2	18.1	17.1	17.6	18.2	18.5	18.5	18.3	18.1	19.2	
5- 6	20.5	19.6	19.5	18.5	18.5	18.0	18.3	18.5	17.4	17.6	17.9	18.2	18.5	18.3	18.2	19.1	
6- 7	20.5	19.9	19.6	18.7	18.6	18.3	17.7	18.1	17.3	17.7	18.1	18.1	18.6	18.2	18.3	19.2	
7- 8	20.4	19.5	19.8	18.9	18.7	17.9	17.5	17.9	17.3	17.5	18.0	18.0	18.5	18.0	18.4	19.0	
8- 9	20.2	20.0	19.1	19.4	18.7	17.6	17.8	19.0	17.8	18.0	17.8	17.8	18.6	18.3	18.6	19.0	
9-10	19.9	19.9	19.8	19.5	18.6	17.6	17.7	19.2	18.1	18.2	17.5	17.5	18.6	18.3	18.9	18.7	
10-11	19.9	19.8	20.3	19.7	18.9	17.9	17.9	19.4	19.0	18.4	17.5	17.5	18.8	18.5	19.3	18.7	
11-12	20.2	20.3	20.1	20.2	19.1	18.9	18.9	19.4	19.2	18.5	17.7	17.5	19.2	19.1	19.5	18.9	
12-13	20.1	20.6	19.9	21.1	20.2	20.4	20.1	19.9	20.0	18.8	17.3	17.6	19.7	20.2	19.9	18.9	
13-14	20.1	20.9	20.4	22.1	21.9	21.4	21.4	20.8	20.6	19.0	17.6	17.2	20.3	21.4	20.5	19.0	
14-15	20.7	21.3	21.3	23.4	23.7	23.4	23.2	22.7	22.4	20.0	18.7	17.9	21.5	23.2	21.8	19.6	
15-16	21.3	22.3	22.9	24.7	24.6	25.5	24.9	24.1	23.8	21.1	19.4	18.3	22.7	24.8	23.1	20.3	
16-17	22.6	23.8	24.8	25.1	25.0	26.2	25.0	25.6	24.5	22.0	20.9	19.3	23.7	25.5	24.1	21.7	
17-18	23.9	24.6	25.4	24.2	23.7	25.2	22.8	23.7	21.7	21.7	20.9	20.0	23.2	23.8	23.3	22.4	
18-19	23.9	23.8	24.0	21.3	20.6	21.5	19.1	20.4	18.3	20.3	20.4	19.8	21.1	20.4	21.0	22.0	
19-20	22.3	21.5	21.6	18.3	17.5	17.9	16.1	17.3	15.2	18.1	19.0	18.7	18.6	17.2	18.3	20.4	
20-21	20.2	19.4	19.6	17.0	15.8	14.9	13.8	15.0	14.0	16.3	17.3	17.6	16.7	14.9	16.7	18.6	
21-22	18.3	17.8	17.8	16.1	15.5	13.8	12.0	13.2	13.7	15.1	15.9	16.5	15.5	13.6	15.7	17.1	
22-23	17.5	16.9	16.9	15.6	15.2	13.2	12.0	13.0	14.6	14.6	15.7	16.1	15.1	13.4	15.4	16.5	
23-24	17.7	16.5	16.2	15.8	15.1	13.3	13.4	13.5	15.9	14.8	15.7	15.7	15.3	13.8	15.7	16.4	
MEAN	20.3	20.2	20.1	19.5	19.0	18.6	18.2	18.6	18.1	18.0	17.9	17.8	18.9	18.6	18.9	19.1	

MEAN VALUES OF MAGNETIC ELEMENTS
 VERTICAL INTENSITY (GAMMAS) (QUIET DAYS)

TABLE 42 VICTORIA

U.T.	Z = 53,000 GAMMA +												1972			
	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	YEAR	SUMMER	EQUINOX	WINTER
0- 1	98	96	93	89	89	90	95	92	87	79	83	74	89	92	87	88
1- 2	98	97	95	90	93	92	98	93	86	81	82	73	90	94	88	88
2- 3	98	97	97	92	95	91	96	93	87	82	83	73	90	94	90	88
3- 4	97	98	97	91	92	89	92	91	86	82	81	72	89	91	89	87
4- 5	97	97	96	91	89	88	89	92	87	82	81	73	88	90	89	87
5- 6	97	97	95	90	88	85	87	90	86	81	80	72	87	88	88	87
6- 7	96	96	95	90	88	85	87	91	86	82	81	72	87	88	88	86
7- 8	96	96	95	90	86	85	87	90	86	80	79	73	87	87	88	86
8- 9	95	95	93	90	86	83	87	90	85	80	79	72	86	87	87	85
9-10	96	94	92	89	86	82	86	87	84	80	78	72	85	85	86	85
10-11	95	94	91	89	87	81	85	87	83	80	78	71	85	85	86	85
11-12	95	93	91	89	85	80	87	88	83	78	78	71	85	85	85	84
12-13	94	93	90	88	88	84	90	90	83	79	78	71	86	88	85	84
13-14	94	92	90	88	89	86	90	90	82	78	77	70	85	89	85	83
14-15	94	94	90	89	87	87	90	91	86	80	78	70	86	89	86	84
15-16	96	98	93	89	83	86	88	88	86	81	80	71	86	86	87	86
16-17	99	99	93	85	80	79	86	85	81	82	80	73	85	83	85	88
17-18	98	97	88	80	74	69	77	76	75	78	77	72	80	74	80	86
18-19	97	93	84	73	68	57	69	70	72	73	75	69	75	66	76	84
19-20	96	90	82	73	67	52	65	67	74	69	73	69	73	63	75	82
20-21	94	89	81	74	70	50	67	73	77	69	73	69	74	65	75	81
21-22	94	87	82	76	74	56	70	74	79	69	74	70	75	69	77	81
22-23	95	89	85	78	79	64	77	79	84	72	78	72	79	75	80	84
23-24	96	92	88	78	83	74	85	84	85	74	78	71	83	82	81	84
MEAN	96	94	91	85	84	78	85	85	83	78	79	71	84	83	84	85

MEAN VALUES OF MAGNETIC ELEMENTS
HORIZONTAL INTENSITY (GAMMAS) (DISTURBED DAYS)

U.T.	H = 18,500 GAMMA ±												1972			
	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	YEAR	SUMMER	EQUINOX	WINTER
0- 1	466	471	479	496	493	536	495	499	473	467	478	488	487	506	479	476
1- 2	472	476	471	493	478	556	497	514	472	471	482	487	489	511	477	479
2- 3	469	475	472	496	477	571	496	510	468	471	478	480	489	514	477	476
3- 4	470	475	470	484	481	504	491	512	467	475	483	481	483	497	474	477
4- 5	467	480	463	477	488	475	492	508	469	475	456	489	478	491	471	473
5- 6	472	481	458	479	486	468	491	499	462	472	459	482	476	486	468	474
6- 7	472	482	463	486	490	458	492	494	466	480	458	476	476	484	474	472
7- 8	469	481	465	478	495	460	494	479	471	477	441	480	474	482	473	468
8- 9	468	477	476	478	501	449	489	468	475	471	422	482	471	477	475	462
9-10	462	481	494	477	496	467	490	475	478	479	410	493	474	482	480	462
10-11	469	472	485	475	498	457	492	482	476	480	466	483	478	482	479	473
11-12	467	476	485	481	493	447	492	462	483	484	453	492	476	474	483	472
12-13	473	481	484	484	498	461	499	443	484	491	457	489	479	475	486	475
13-14	475	482	485	490	500	465	496	456	493	490	468	490	483	479	490	479
14-15	476	472	481	485	501	479	497	450	489	483	479	494	482	482	485	480
15-16	459	481	476	475	491	477	503	452	478	482	479	490	479	481	478	477
16-17	469	479	472	469	482	479	494	451	467	482	474	489	476	477	473	478
17-18	464	462	470	466	480	470	481	455	453	479	462	486	469	472	467	469
18-19	456	449	460	461	477	477	479	439	432	460	458	482	461	468	453	461
19-20	445	450	450	459	457	470	480	427	430	451	457	477	454	459	448	457
20-21	439	445	449	469	463	468	484	453	452	460	459	467	459	467	458	453
21-22	450	448	458	475	470	467	489	453	468	471	459	456	464	470	468	453
22-23	458	452	464	483	485	487	496	514	468	482	462	466	476	496	474	460
23-24	460	453	473	486	486	497	486	482	460	483	457	476	475	488	476	462
MEAN	464	470	471	479	486	481	491	474	468	476	461	482	475	365	474	469

MEAN VALUES OF MAGNETIC ELEMENTS
DECLINATION (MINUTES) (DISTURBED DAYS)

TABLE 44	VICTORIA												D = 22 DEG 00.0 MIN EAST +				1972
U.T.	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	YEAR	SUMMER	EQUINOX	WINTER	
0- 1	19.0	17.5	13.2	13.2	10.6	11.8	15.7	9.6	15.7	15.3	17.3	16.4	14.6	11.9	14.3	17.5	
1- 2	20.2	18.1	15.3	14.7	14.2	11.7	16.2	10.2	17.5	16.3	17.1	15.9	15.6	13.1	16.0	17.8	
2- 3	20.1	19.7	16.7	15.5	17.3	14.7	17.1	12.3	18.9	15.9	18.2	17.0	17.0	15.4	16.8	18.8	
3- 4	20.6	20.1	17.8	16.9	18.0	20.1	17.5	16.6	23.7	20.2	20.5	19.9	19.3	18.1	19.7	20.3	
4- 5	21.6	21.1	18.0	17.5	18.8	21.2	18.8	27.3	25.4	19.5	21.5	18.3	20.7	21.5	20.1	20.6	
5- 6	20.9	20.6	21.7	20.1	18.5	23.5	20.2	26.8	18.7	19.7	21.4	19.5	21.0	22.3	20.0	20.6	
6- 7	21.8	21.9	22.1	22.7	18.4	22.2	20.1	22.3	22.6	20.1	26.4	20.6	21.8	20.7	21.9	22.6	
7- 8	23.2	21.9	22.0	21.7	18.7	23.0	20.2	17.5	18.5	17.5	21.4	22.0	20.6	19.8	19.9	22.1	
8- 9	23.2	21.3	21.5	25.1	20.4	24.3	19.4	21.2	18.8	20.9	22.6	19.5	21.5	21.3	21.6	21.6	
9-10	20.7	21.3	21.4	26.3	19.7	22.4	18.7	21.4	18.9	20.7	18.4	17.9	20.7	20.6	21.9	19.6	
10-11	21.6	23.0	23.1	26.0	20.0	21.6	18.7	20.2	18.0	22.3	22.2	19.4	21.3	20.1	22.4	21.6	
11-12	23.0	24.3	22.9	25.4	19.4	18.4	20.6	19.1	19.2	20.3	19.9	20.4	21.1	19.3	22.0	21.9	
12-13	22.5	22.5	22.7	23.2	20.0	19.1	20.5	20.4	21.3	18.7	18.5	21.8	20.9	20.0	21.5	21.3	
13-14	21.8	20.8	22.4	23.7	22.1	21.6	21.1	20.4	21.3	17.8	16.2	17.2	20.5	21.3	21.3	19.0	
14-15	20.7	18.3	22.1	24.0	24.1	23.8	23.7	23.2	23.2	15.9	16.6	17.5	21.1	23.7	21.3	18.3	
15-16	17.2	17.6	23.1	23.7	26.6	25.6	25.1	24.7	24.9	16.0	17.2	17.4	21.6	25.5	21.9	17.3	
16-17	17.1	22.4	21.9	22.6	26.3	26.1	24.5	26.7	23.8	19.2	20.1	17.1	22.3	25.9	21.9	19.2	
17-18	19.8	22.5	21.4	20.1	24.1	25.4	21.7	26.1	21.9	20.6	19.9	16.8	21.7	24.3	21.0	19.7	
18-19	21.3	21.1	20.5	18.5	21.9	21.2	18.6	24.3	19.2	21.3	19.3	16.5	20.3	21.5	19.9	19.6	
19-20	21.0	18.7	18.7	16.4	20.8	20.9	14.1	20.8	15.1	14.8	16.9	16.8	17.9	19.2	16.3	18.3	
20-21	20.3	18.7	17.8	15.1	15.0	17.4	11.3	18.3	13.1	13.7	17.2	16.2	16.2	15.5	14.9	18.1	
21-22	18.8	17.9	16.3	14.5	12.5	13.6	11.5	22.4	13.3	14.5	15.8	15.0	15.5	15.0	14.6	16.8	
22-23	17.9	17.4	15.4	14.8	12.2	12.3	12.6	19.7	13.6	15.8	16.4	15.3	15.3	14.2	14.9	16.8	
23-24	18.4	16.7	15.3	15.3	12.2	11.8	13.5	11.6	15.4	16.5	17.5	16.1	15.0	12.3	15.7	17.2	
MEAN	20.5	20.2	19.7	19.9	18.8	19.7	18.4	20.1	19.3	18.1	19.1	17.9	19.3	19.3	19.2	19.4	

MEAN VALUES OF MAGNETIC ELEMENTS
 VERTICAL INTENSITY (GAMMAS) (DISTURBED DAYS)

TABLE 45 VICTORIA		Z = 53,000 GAMMA +												1972		
U.T.	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	YEAR	SUMMER	EQUINOX	WINTER
0- 1	106	98	101	90	105	150	100	124	98	91	83	77	102	120	95	91
1- 2	108	100	107	98	112	164	103	131	100	97	86	78	107	128	101	93
2- 3	108	101	111	106	110	172	101	143	111	104	107	81	113	132	108	99
3- 4	110	103	119	112	104	143	99	154	140	109	154	85	119	125	120	113
4- 5	110	102	127	116	99	122	104	202	119	100	129	86	118	132	116	107
5- 6	111	100	130	118	98	99	91	195	86	96	112	85	110	121	108	102
6- 7	109	99	123	96	97	81	91	160	96	87	68	87	100	107	101	91
7- 8	105	98	105	93	94	64	85	112	87	72	56	79	88	89	89	85
8- 9	102	93	104	78	83	35	84	94	79	68	19	77	76	74	82	73
9-10	97	84	99	74	76	56	76	50	84	53	-6	60	67	65	78	59
10-11	75	76	94	64	84	25	72	5	77	51	1	43	56	47	72	49
11-12	73	64	78	61	84	34	72	29	74	57	12	44	57	55	68	48
12-13	85	51	70	56	90	41	81	67	68	60	27	47	62	70	64	53
13-14	88	61	78	56	90	35	80	73	79	67	43	52	67	70	70	61
14-15	85	59	86	64	89	41	77	80	80	71	66	58	71	72	75	67
15-16	73	59	90	65	88	46	77	72	81	69	65	64	71	71	76	65
16-17	76	77	85	71	84	53	75	89	84	73	69	67	75	75	78	72
17-18	79	82	84	72	79	62	70	98	81	75	72	65	76	77	78	74
18-19	85	82	83	75	73	59	69	96	77	68	73	64	75	74	76	76
19-20	90	84	82	79	67	62	64	91	82	69	73	66	76	71	78	78
20-21	95	88	83	87	74	72	66	102	92	74	77	66	82	79	84	82
21-22	101	92	90	91	81	80	76	113	96	79	80	68	87	88	89	85
22-23	101	96	94	99	87	92	86	145	99	95	85	77	95	103	94	90
23-24	103	99	101	100	94	111	96	130	98	86	89	79	99	108	96	93
MEAN	95	85	97	84	89	79	83	106	90	78	68	69	85	89	87	79

THREE-HOUR RANGE INDICES

VICTORIA 1972

TABLE 46

JANUARY

DAY	D	H	Z	K
1	1011 1111	0001 0121	0000 0000	1011 1121
2	1022 0231	1032 0231	0001 0010	1032 0231
3	0132 0220	0132 1101	0020 0000	0132 1221
4	2242 0111	3330 0001	0110 0000	3342 0111
5	1122 1110	2121 1000	0001 0000	2122 1110
6	0200 1000	0100 0000	0000 0000	0200 1000
7	0000 1111	0000 0010	0000 0000	0000 1111
8	0000 0100	0001 0010	0000 0000	0001 0110
9	1021 2100	1110 1000	0000 0000	1121 2100
10	2000 0121	2000 0012	0000 0000	2000 0122
11	3323 3221	3333 2211	2212 2100	3333 3221
12	1011 2000	2101 1000	0000 0000	2111 2000
13	1000 1000	1000 0002	0000 0000	1000 1002
14	0000 0000	2100 1000	0000 0000	2100 1000
15	0113 5431	0123 4321	0001 4120	0123 5431
16	1124 4633	2333 3622	0015 3411	2334 4633
17	3421 3332	3421 2332	1300 1220	3421 3332
18	4543 4422	3433 3322	1313 3100	4543 4422
19	2122 3212	2221 2311	0020 1101	2222 3312
20	0323 3321	0332 3111	0021 0100	0333 3321
21	0235 6521	1133 6512	0003 6601	1235 6522
22	2364 3442	3354 2333	1143 2320	3364 3443
23	5654 4212	3534 2112	3333 3201	5654 4212
24	0113 1111	0122 1121	0111 0000	0123 1121
25	0341 1231	0231 2223	0122 1011	0341 2233
26	1545 2221	3434 2221	1225 3210	3545 2221
27	1343 4431	2232 3221	0032 2210	2343 4431
28	2135 3432	1133 1323	0013 1222	2135 3433
29	1511 3421	2411 3322	0200 3210	2511 3422
30	2111 2101	2111 1002	0000 0000	2111 2102
31	0200 2211	1200 1211	0000 1000	1200 2211

DAY	D	H	Z	K
1	0023 3211	1012 3111	0000 3000	1023 3211
2	2344 3331	1232 3221	0122 1100	2344 3331
3	1102 3322	1112 2301	0000 2100	1112 3322
4	1243 3100	2222 2001	0112 0000	2243 3101
5	0232 2222	0011 1111	0000 0000	0232 2222
6	1121 0121	0120 0011	0000 0000	1121 0121
7	0020 0222	1020 0113	0000 0001	1020 0223
8	1301 0100	2212 0101	0001 0000	2312 0101
9	0001 0011	0111 0011	0000 0000	0111 0011
10	1132 2232	3321 1122	0010 0011	3332 2232
11	2023 3211	2022 2001	0001 0000	2023 3211
12	0121 0000	2220 0000	0000 0000	2221 0000
13	0105 4432	0212 3234	0004 4222	0215 4434
14	2343 1322	3232 1222	1121 0000	3343 1322
15	1553 3221	2332 2112	0121 0001	2553 3222
16	2332 2110	2221 1101	0000 0000	2332 2111
17	0203 5553	1103 4433	0003 4221	1203 5553
18	2231 0104	2331 0004	0020 0002	2331 0104
19	4210 3311	3010 2210	2000 1100	4210 3311
20	3123 3102	2222 2011	0001 0000	3223 3112
21	1321 1231	2201 1110	0000 1000	2321 1231
22	0031 1201	0021 0001	0000 0000	0031 1201
23	0002 2231	1112 2221	0000 0000	1112 2231
24	1246 6622	1235 5533	0045 5521	1246 6633
25	3332 3311	4431 2212	1210 2210	4432 3312
26	0121 0101	2220 0000	0010 0000	2221 0101
27	0002 1012	0001 1012	0001 0000	0002 1012
28	0332 0000	1221 0000	0010 0000	1332 0000
29	0000 0000	0010 0000	0000 0000	0010 0000

THREE-HOUR RANGE INDICES

VICTORIA 1972

TABLE 47

MARCH

APRIL

DAY	D	H	Z	K	DAY	D	H	Z	K
1	0012 3211	0121 2012	0000 0000	0122 3212	1	0052 3222	2141 2123	0032 1002	2152 3223
2	0113 3212	1122 1122	0002 2001	1123 3222	2	1612 0100	3421 0111	2300 0000	3622 0111
3	2243 2412	1231 2311	1043 1300	2243 2412	3	0010 0110	1110 0011	0000 0000	1110 0111
4	2044 1100	1033 1001	1032 0000	2044 1101	4	2322 4431	3332 2332	2110 2120	3332 4432
5	0011 0001	0010 0011	0000 0000	0011 0011	5	3443 4210	3432 3111	2322 2000	3443 4211
6	1433 0015	1322 0015	0103 0003	1433 0015	6	0133 2220	1022 3111	0012 2000	1133 3221
7	5454 3223	5555 4213	4343 2001	5555 4223	7	0233 3211	0132 1102	0022 2000	0233 3212
8	0011 2520	2112 1421	0000 0200	2112 2521	8	0100 0221	1100 0112	0000 0001	1100 0222
9	1223 4321	1322 2211	0003 3000	1323 4321	9	2001 1000	3000 0000	1000 0000	3001 1000
10	0010 0000	1010 0012	0000 0000	1010 0012	10	0131 0012	1121 0012	0010 0000	1131 0012
11	2320 0110	2220 0010	1000 0000	2320 0110	11	0321 0110	1211 0111	0000 0000	1321 0111
12	0000 2211	0000 0011	0000 0000	0000 2211	12	0112 2223	1212 2223	0000 0101	1212 2223
13	0023 2101	2112 1001	0003 2000	2123 2101	13	3223 2221	2221 2122	2100 0000	3223 2222
14	1032 0101	1021 1002	0020 0000	1032 1102	14	1122 0001	3231 0002	0020 0000	3232 0002
15	0003 1103	0002 0013	0001 0001	0003 1113	15	0232 1200	1120 1011	0010 1000	1232 1211
16	4423 4213	4313 3213	3334 3101	4423 4213	16	0211 0002	2221 0002	0000 0001	2221 0002
17	2423 3222	3323 2222	1223 1001	3423 3222	17	2032 1101	2122 1102	0012 0000	2132 1102
18	2441 0200	3242 0000	1030 0000	3442 0200	18	3434 3331	3333 3233	3324 2011	3434 3333
19	0012 2001	1110 1012	0000 0000	1112 2012	19	0024 4110	2223 2011	0002 3000	2224 4111
20	0030 1110	1020 0111	0000 0000	1030 1111	20	0011 2223	1022 1113	0000 1101	1022 2223
21	0002 1211	1101 0103	0000 0001	1102 1213	21	4555 4220	4343 2120	2333 3000	4555 4220
22	2201 1121	3211 0022	1000 0000	3211 1122	22	0000 1231	0000 2233	0000 0010	0000 2233
23	0013 3111	2122 1002	0003 2001	2123 3112	23	0112 2001	2232 2003	0013 2000	2232 2003
24	1434 3320	2333 2211	1333 2100	2434 3321	24	0021 1100	0021 0101	0000 0000	0021 1101
25	1432 0211	2221 0111	0100 0000	2432 0211	25	0001 0100	0011 0002	0000 0000	0011 0102
26	1122 1333	1212 1211	0001 0011	1222 1333	26	0110 0000	1100 0001	0000 0000	1110 0001
27	3443 1332	3332 1221	1220 0011	3443 1333	27	0001 1420	1010 2312	0000 0100	1011 2422
28	2332 2100	3322 1000	1120 0000	3332 2101	28	2243 5420	4333 4431	2134 4320	4343 5431
29	1144 2323	2224 2333	1034 4212	2244 2323	29	1566 5332	2453 5323	2463 5213	2566 5333
30	5444 4231	4342 3311	3243 2010	5444 4331	30	4114 3211	4224 2013	3114 0001	4224 3213
31	1443 1221	1331 2033	0122 0010	1443 2223					

THREE-HOUR RANGE INDICES

VICTORIA 1972

TABLE 48

MAY

JUNE

DAY	D	H	Z	K	DAY	D	H	Z	K
1	3342 3121	4342 3122	2343 200	4342 3122	1	0122 1120	2121 2122	1000 0000	2122 2122
2	2554 2222	2433 1122	0334 081	2554 2222	2	0222 1211	2221 3212	1110 0001	2222 3212
3	1103 2210	2111 2221	0001 000	2113 2221	3	2213 3321	3222 3223	2222 3211	3223 3323
4	1312 2210	2221 1211	1000 100	2322 2211	4	2323 2321	3332 3333	1222 1111	3333 3333
5	0201 1210	2211 0122	0100 000	2211 1222	5	2342 2220	3332 1112	1223 0000	3342 2222
6	1142 3321	3121 2112	1032 100	3142 3322	6	0000 2212	2120 1212	0000 1000	2120 2212
7	1001 0100	2100 0012	0000 000	2101 0112	7	1232 2110	3322 2102	1100 1001	3332 2112
8	0010 0110	0010 2110	0000 000	0010 2110	8	0220 2210	2210 1122	1200 0000	2220 2222
9	0144 3121	2332 1212	0033 100	2344 3222	9	1100 0000	2212 0001	1101 0000	2212 0001
10	1143 1111	3232 2112	0032 1000	3243 2112	10	0330 1100	2211 0100	0000 0000	2331 1100
11	0222 1221	1221 1122	0001 1010	1222 1222	11	1120 1000	3120 0011	1000 0000	3120 1011
12	1333 3110	2332 2101	0130 2000	2333 3111	12	0000 1000	2210 2001	0000 0000	2210 2001
13	1011 0221	3111 1112	2000 0010	3111 1222	13	0000 1111	2211 0123	1100 0001	2211 1123
14	1122 2000	3211 1111	1000 0000	3222 2111	14	1021 2231	2222 1333	1100 0111	2222 2333
15	0010 1174	1122 0165	1100 1044	1122 1175	15	2431 2221	3322 2222	2310 0000	3432 2222
16	4234 2101	6333 2122	4302 1001	6334 2122	16	1134 2111	2223 3223	1011 1011	2234 3223
17	2222 2211	4322 2222	2210 2100	4322 2222	17	1345 5755	3343 4655	2133 4336	3345 5755
18	4344 2000	4432 2012	2213 1000	4444 2012	18	8877 5432	9767 5544	8878 6643	9877 5544
19	0000 0000	1010 0002	0000 0000	1010 0002	19	3474 4110	4453 2212	3453 3100	4474 4212
20	1102 1000	2101 2002	0001 0006	2102 2002	20	3131 2100	4230 2112	3220 1000	4231 2112
21	0000 0101	2110 0112	0000 0000	2110 0112	21	0100 1121	2110 2122	0000 0000	2110 2122
22	0221 0000	2220 0011	1110 0000	2221 0011	22	1234 4112	3132 3223	2233 3001	3234 4223
23	1000 1322	3102 2223	1000 0000	3102 2323	23	2343 3211	4332 2213	2223 2100	4343 3213
24	2310 0110	2211 0110	1100 0000	2311 0110	24	1033 2330	3223 2331	2111 2220	3233 2331
25	0010 0112	1212 0123	0000 0000	1212 0123	25	0022 2311	2011 2222	1000 1100	2022 2322
26	0302 1221	3312 2223	2101 0000	3312 2223	26	0323 2321	2322 1222	0111 2211	2323 2322
27	2000 1232	3100 1323	2100 1112	3100 1333	27	0242 1332	2232 2333	2021 1212	2242 2333
28	1123 3441	3234 3423	2113 1210	3234 3443	28	2244 3220	3333 3222	2243 2110	3344 3222
29	1332 2211	3322 2222	1122 1000	3332 2222	29	2223 2120	4222 2323	2102 0101	4223 2323
30	3412 2221	4322 3343	2200 0120	4422 3343	30	0222 0000	2111 1001	1100 0000	2222 1001
31	1442 2202	3342 2223	1221 0001	3442 2223					

RECORD OF OBSERVATIONS AT VICTORIA MAGNETIC OBSERVATORY 1972

THREE-HOUR RANGE INDICES

VICTORIA 1972

TABLE 49

JULY

AUGUST

DAY	D	H	Z	K	DAY	D	H	Z	K
1	0011 2110	1001 2120	0000 0000	1011 2120	1	3421 1100	4422 1112	2220 0000	4422 1112
2	0111 1221	2211 1233	1100 0111	2211 1233	2	1132 1020	2321 2012	2010 0011	2332 2022
3	2221 1110	3231 2112	1110 0000	3231 2112	3	0113 2210	1111 1112	0000 0000	1113 2212
4	1010 0100	3100 2110	0000 0000	3110 2110	4	4874 4459	6786 5359	4776 3249	6886 5459
5	0010 0010	2100 0121	1000 0000	2110 0121	5	7876 6754	7656 6675	6676 5753	7876 6775
6	0100 0101	1110 0003	0000 0001	1110 0103	6	5776 3342	6655 3343	5575 3231	6776 3343
7	1321 2231	3321 1232	2200 0020	3321 2232	7	5543 2411	5432 3323	3522 1101	5543 3423
8	2553 2100	4322 0121	1232 0000	4553 2121	8	0001 2223	3100 2324	1000 1112	3101 2324
9	0003 2212	2112 2223	0001 0001	2113 2223	9	4677 5332	6577 3333	4788 5322	6677 5333
10	2111 2110	3211 1212	2200 1000	3211 2212	10	2144 4223	3234 3333	2124 3322	3244 4333
11	1132 0121	2122 1112	0000 0001	2132 1122	11	3423 3221	3433 2233	2323 2112	3433 3233
12	0031 3001	2221 3212	0100 2001	2231 3212	12	1301 1210	3312 1222	2101 0000	3312 1222
13	0100 1100	1100 1101	0000 0000	1100 1101	13	1321 0101	1201 0222	0000 0000	1321 0222
14	0121 0000	2110 0011	0100 0000	2121 0011	14	1112 2221	3211 2222	1001 2111	3212 2222
15	0120 0011	2121 0123	1110 0001	2121 0123	15	2252 1222	3342 2213	1143 0012	3352 2223
16	2331 1231	2221 1232	1110 001	2331 1232	16	3332 1200	3221 2112	1220 0000	3332 2212
17	1321 1111	3221 1122	1100 000	3321 1122	17	2122 3111	2122 1212	1112 1100	2122 3212
18	2222 0200	3211 1112	1001 000	3222 1212	18	0322 3232	2223 3223	1013 1101	2323 3233
19	0124 1211	1223 1123	0002 000	1224 1223	19	2341 2321	3332 3332	2110 2210	3342 3332
20	1332 1110	1123 0101	0000 200	1333 1111	20	2123 2332	3223 2333	1003 1211	3223 2333
21	0200 0010	1110 0111	0000 000	1210 0111	21	2444 2322	3433 2223	1313 1101	3444 2323
22	0000 0332	2100 2333	0000 001	2100 2333	22	2353 2121	3232 1111	1043 0000	3353 2121
23	0323 3210	2322 2312	0102 200	2323 3312	23	1221 1100	1111 0100	0000 0000	1221 1100
24	0002 3143	1001 2334	0000 302	1002 3344	24	0012 0000	0111 0100	0001 0000	0112 0100
25	2555 3212	3445 4224	3435 322	3555 4224	25	0032 1112	1112 1113	0010 0002	1132 1113
26	1264 2221	2252 2322	2043 021	2264 2322	26	2552 1333	5342 1234	2450 0012	5552 1334
27	0552 1110	1432 1212	0331 000	1552 1212	27	3556 4111	4345 3211	2445 4000	4556 4211
28	0323 1100	1322 2100	0102 000	1323 2100	28	0102 2321	2211 2222	0002 1010	2212 2322
29	0022 0010	0011 1111	0000 000	0022 1111	29	1212 1121	1111 0112	0000 0000	1212 1122
30	0000 2111	1002 1232	0000 000	1002 2232	30	1003 2220	2002 1212	1002 0000	2003 2222
31	0210 0012	2110 0022	0000 000	2210 0022	31	2431 0111	3231 0111	1010 0000	3431 0111

THREE-HOUR RANGE INDICES

VICTORIA 1972

TABLE 50

SEPTEMBER

OCTOBER

DAY	D	H	Z	K	DAY	D	H	Z	K
1	0223 0000	2222 0100	0001 0000	2223 0100	1	2120 0112	2210 0112	0000 0001	2220 0112
2	0032 1111	0011 0102	0000 0000	0032 1112	2	0000 1121	1000 0022	0000 0000	1000 1122
3	0002 0112	1012 0003	0001 0001	1012 0113	3	1000 0212	1100 0113	0000 0001	1100 0213
4	0110 0121	1330 0112	0100 0001	1330 0122	4	3234 1100	2133 0001	1032 0000	3234 1101
5	0000 0111	1110 0112	0000 0000	1110 0112	5	0000 0100	0000 0001	0000 0000	0000 0101
6	3131 2312	3322 2222	1000 0100	3332 2322	6	0000 0001	1000 0001	0000 0000	1000 0001
7	1202 3201	1202 2101	0000 1000	1202 3201	7	0001 2112	0002 1124	0000 0001	0002 2124
8	1113 2211	3232 2112	1003 2100	3233 2212	8	1000 0110	1000 0010	0000 0000	1000 0110
9	0323 2001	1223 1001	0012 0000	1323 2001	9	0120 1222	0010 0112	0000 0001	0120 1222
10	2322 1331	1233 2233	0012 1111	2333 2333	10	1004 3221	1112 2111	0002 2000	1114 3221
11	0346 3210	1224 2211	0034 3000	1346 3211	11	5544 3312	4345 2212	3333 3101	5545 3312
12	0433 2100	0322 1000	0120 0000	0433 2100	12	0000 4333	1011 3343	0000 3221	1011 4343
13	0341 4563	1242 5475	0021 5452	1342 5575	13	3424 3212	3323 3112	2213 1001	3424 3212
14	3961 1221	4952 2222	6950 0210	4962 2222	14	4444 3322	4344 3223	2134 1111	4444 3323
15	3645 4311	3544 4324	1435 4101	3645 4324	15	0401 2201	0310 1112	0101 0000	0411 2212
16	2455 0242	2242 1343	1244 0111	2455 1343	16	0433 2210	2322 2110	0123 2100	2433 2210
17	3454 4323	3342 2214	2244 3101	3454 4324	17	0001 0000	0001 0000	0000 0000	0001 0000
18	3544 3210	3443 1100	0233 2000	3544 3210	18	0235 2323	0224 1213	0024 0101	0235 2323
19	2331 1000	1330 0000	0220 0000	2331 1000	19	4576 4320	4464 3222	4463 4100	4576 4322
20	0103 1000	0101 1001	0001 0000	0103 1001	20	2443 3431	2322 2322	0043 1101	2443 3432
21	1002 0000	1000 0000	0000 0000	1002 0000	21	0354 3321	1232 2222	0043 2100	1354 3322
22	0021 1222	0021 0112	0010 0001	0021 1222	22	1134 4322	1133 1122	0023 2010	1134 4322
23	0002 5332	1112 3222	0002 3111	1112 5332	23	3245 3322	2233 2212	0031 2200	3245 3322
24	2353 3321	3332 2322	1132 2110	3353 3322	24	3333 3320	2131 2221	1021 0000	3333 3321
25	1323 1111	1331 0012	0111 0000	1333 1112	25	0034 4110	1022 3000	0012 2000	1034 4110
26	0323 2210	1222 1111	0001 2000	1323 2211	26	1443 2111	0241 1002	0032 0000	1443 2112
27	1323 2200	2322 2101	1211 1000	2323 2201	27	0000 1213	1001 1212	0000 0001	1001 1213
28	0222 2011	2222 2022	0000 0000	2222 2022	28	2243 1101	2254 0001	0134 0000	2254 1101
29	4344 3332	3343 3232	2243 3112	4344 3332	29	1353 5413	2343 2223	0042 2212	2353 5423
30	2321 0111	2231 0112	1110 0000	2331 0112	30	1545 5322	2344 4112	1233 5000	2545 5322
					31	1000 1574	1010 1564	0000 0342	1010 1574

THREE-HOUR RANGE INDICES

VICTORIA 1972

TABLE 51

NOVEMBER

DAY	D	H	Z	K
1	7788 6243	7977 5244	7887 7133	7888 6244
2	5423 3333	5433 3444	3312 2222	5433 3444
3	3433 0100	4331 0001	3210 0000	4433 0101
4	0001 0201	1101 0111	0000 0000	1101 0211
5	0000 0101	1000 0001	0000 0000	1000 0101
6	1202 2211	1102 1111	0000 0000	1202 2211
7	0235 2210	0123 0010	0004 2000	0235 2210
8	2113 3101	2102 1102	0001 0000	2113 3102
9	1123 2210	1112 1101	0001 1000	1123 2211
10	0212 2100	0110 2000	0000 0000	0212 2100
11	1100 3211	2000 2111	0000 1000	2100 3211
12	0131 2200	1231 1100	0020 0000	1231 2200
13	0020 0100	1120 0000	0000 0000	1120 0100
14	0021 1100	0011 1001	0000 0000	0021 1101
15	0213 4422	0212 4423	0003 2210	0213 4423
16	3443 5322	2443 4323	0353 5211	3443 5323
17	1324 3221	1223 2321	0013 2200	1324 3321
18	2142 2312	2042 2311	0030 0100	2142 2312
19	2254 2101	2232 1111	0032 1000	2254 2111
20	4335 5522	3334 3232	1134 5410	4335 5532
21	3442 0101	3331 0111	1220 0000	3442 0111
22	0002 3432	0002 3422	0001 2200	0002 3432
23	1122 4322	2112 3211	0000 3100	2122 4322
24	1002 1011	2211 0011	0000 0000	2212 1011
25	0003 2222	0112 2112	0000 1100	0113 2222
26	3213 3121	3111 2110	2122 1000	3213 3121
27	0001 1431	2100 1332	0000 0100	2101 1432
28	1321 4321	2302 3311	0100 3100	2322 4321
29	2423 1000	1332 1000	0221 0000	2433 1000
30	0000 0100	0000 0102	0000 0000	0000 0102

DECEMBER

DAY	D	H	Z	K
1	1320 0000	2121 0000	0000 0000	2321 0000
2	0031 0111	0131 0111	0010 0000	0131 0111
3	1100 1211	1120 0111	0000 0000	1120 1211
4	0030 0000	1120 1000	0010 0000	1130 1000
5	0000 0000	0000 0001	0000 0000	0000 0001
6	0010 0100	1011 0000	0000 0000	1011 0100
7	0123 2220	1122 3220	0001 1010	1123 3220
8	0222 1211	0112 1212	0000 0100	0222 1212
9	0000 0111	0000 0121	0000 0000	0000 0121
10	1020 0000	1011 0000	0000 0000	1021 0000
11	0001 1000	0000 0001	0000 0000	0001 1001
12	0020 1212	1111 2103	0000 0001	1121 2213
13	3454 5334	4344 3323	2233 3112	4454 5334
14	2322 3220	1221 2211	0001 1100	2322 3221
15	1225 5234	0234 4135	0004 4213	1235 5235
16	3555 4332	3434 3233	1334 4221	3555 4333
17	2145 4311	1134 4211	0023 2100	2145 4311
18	1233 2101	1232 2102	0011 1000	1233 2102
19	1221 1121	1111 0211	0000 0000	1221 1221
20	0212 1001	1102 0000	0001 0000	1212 1001
21	0001 2000	0000 2001	0000 0000	0001 2001
22	0001 4333	1001 3332	0000 3111	1001 4333
23	2343 3332	4332 2332	2131 1220	4343 3332
24	4143 1100	4332 1000	2020 0000	4343 1100
25	0000 0011	1000 1012	0000 0000	1000 1012
26	0022 2000	1001 2100	0000 0000	1022 2100
27	0100 0000	0100 0000	0000 0000	0100 0000
28	0001 2212	1100 0011	0000 0000	1101 2212
29	2333 2333	1332 1323	0020 0101	2333 2333
30	3224 3333	3224 2233	0013 0012	3224 3333
31	1134 3212	2234 2113	0023 1001	2234 3213