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**record of observations at
victoria magnetic observatory 1971**

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DEPARTMENT OF ENERGY, MINES AND RESOURCES

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Bernard Caner

It is with great sadness that we report the death of Bernard Caner, at the age of 44, on February 2, 1972.

Dr. Caner was born in Bucharest, Romania. He received the Diploma in Radio Engineering from the École Centrale de TSF (Paris) in 1951, a B.Sc. in General Science from the University of London in 1955, a B.Sc. in Physics from the University of Alberta in 1960, an M.Sc. in Geophysics from the University of British Columbia in 1964, and a Ph.D. from the same university in 1969. He was officer-in-charge of Victoria Magnetic Observatory from its founding in 1957.

Dr. Caner made a remarkable contribution to geomagnetism in these 15 years, in spite of the limited resources at his disposal. He first set out to reduce as far as possible the time required for the routine operation of the magnetic observatory, without sacrificing standards. Having developed techniques and equipment for semi-automatic scaling and processing of observatory data, he and his assistant had time to devote to research projects in rapid variations and particularly to the study of electromagnetic induction in the earth's crust. He planned and organized extensive field experiments, often in cooperation with university groups, developed instruments especially adapted for induction research in western North America, and published nearly 20 research papers of high quality in the last 10 years. He was generous in assisting geophysicists both in Canada and in other countries. His untimely death is a severe loss to the international scientific community.

record of observations at victoria magnetic observatory 1971

D. R. AULD and C. W. WALKER

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

Geomagnetic Coordinates: 54.3°; 292.7°

Officer-in-Charge: B. Caner

Assistant: D.R. Auld

Introduction

The Victoria Magnetic Observatory was established in 1957, on the grounds of the Dominion Astrophysical Observatory, Royal Oak, about 10 miles north of Victoria, British Columbia. Information on the site can be found in the publication containing the record of observations for the period 1957-1958 (Caner and Loomer, 1961).

Magnetic equipment

As of January 1, 1971 a digitally recording magnetometer system (Andersen, 1969) had been installed and was in operation at the observatory. It records values of D, H, Z and F once per minute, on digital magnetic tape, in a format which can be read directly by a computer.

The elements D, H and Z are derived from three fluxgate sensors mounted inside a Helmholtz coil system. One pair of coils continuously nulls H, and the second pair Z, so that the fluxgates operate in essentially zero field. A proton precession magnetometer, with its sensor 8 m from the fluxgates, measures F.

Voltages proportional to the absolute values of the magnetic north, magnetic east, and vertical components are sampled in quick succession by a digital voltmeter each minute. Then follows a measurement of F by the proton magnetometer. The four readings are recorded on digital magnetic tape, together with the date, time, and station identification. The variations in D, H and Z are also recorded continuously by a strip-chart recorder.

The remaining observatory equipment was unchanged from that described in the preceding publications (Caner and Perry-Whittingham, 1962; Caner *et al.*, 1963; Auld and Moseley, 1965; Auld and Andersen, 1966; Auld and Andersen, 1967; Auld and Fetterley, 1970).

The adopted scale values for Ruska magnetograms are as follows:

D: Jan. 1 to Dec. 31,	0.94 min/mm or 5.15 ± 0.02 γ/mm
	(γ/mm)
H: Jan. 1 to May 10,	2.37 ± 0.02
May 10 to Nov. 4,	2.30 ± 0.02
Nov. 4 to Dec. 31,	2.33 ± 0.02

Z: Jan. 1 to May 10,	4.02 ± 0.02
May 10 to July 31,	4.04 ± 0.03
Aug. 1 to Aug. 31,	4.08 ± 0.03
Sept. 1 to Dec. 31,	4.12 ± 0.03

Absolute observations and baseline values

The procedures used were essentially those described by Auld and Moseley (1965) for the period following September 11, 1961 and by Auld and Fetterley (1970).

Baseline drift in all three components was negligible. The rms value of the observed minus adopted baselines is ± 0.3

1971 Ruska Baseline Values

		1971 Ruska Baseline Values	
Declination D	Jan. 1 (0000) - Aug. 8 (0004)	22° 9.2'	East
	Aug. 8 (0004) - Dec. 31 (2400)	22° 8.9'	
Horizontal intensity H	Jan. 1 (0000) - May 10 (1557)	18874	(γ)
	May 10 (1557) - July 10 (1633)	18926	
	July 10 (1633) - Nov. 4 (1812)	18921	
	Nov. 4 (1812) - Nov. 18 (1933)	18860	
	Nov. 18 (1933) - Dec. 31 (2400)	18917	
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 10 (1557)	53050	
	May 10 (1557) - Nov. 4 (1812)	53038	
	Nov. 4 (1812) - Dec. 31 (2400)	53052	
Temperature correction	-2 γ/mm T		
Temperature reference levels	Jan. 1 (0000) - May 10 (1557)	5.8	(mm)
	May 10 (1557) - Nov. 4 (1812)	12.0	
	Nov. 4 (1812) - Dec. 31 (2400)	5.0	

minute for declination, ± 2 gammas for the horizontal component, and ± 2 gammas for the vertical component.

Magnetic reductions

The methods used were essentially those described by Auld and Holmes (1969). Underlined values in any of the tables have been obtained by interpolation from low-sensitivity records, with an accuracy of about 5 γ .

Magnetic activity and disturbance indices

The procedures followed remain unchanged from those described by Caner

and Loomer (1961) and by Auld and Andersen (1966).

Summary of annual mean values

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

For the period 1970.5 – 1971.5, the decrease in declination was 3.0 minutes (the mean rate of decrease over the whole 16-year period being 2.6 minutes per year); the increase in horizontal intensity was 25 gammas (the mean rate of increase over the 16-year period being 19 gammas per year); the decrease in the vertical component was 18 gammas (the mean

rate of decrease over the 16-year period being 22 gammas per year).

Acknowledgments

The help of the Director and staff of the Dominion Astrophysical Observatory is greatly appreciated.

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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	18705	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

MEAN VALUES FOR PERIODS OF SIXTY MINUTES, UNIVERSAL TIME

TABLE 1 VICTORIA

H = 18,500 GAMMA +

JANUARY 1971

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	470	460	458	469	464	460	461	462	464	464	469	470	471	471	472	467	464	452	439	443	445	443	449	460	460
2	476	466	468	467	455	473	467	462	468	469	463	466	467	469	445	467	472	461	442	437	439	445	451	455	460
3 D	452	455	457	459	444	450	452	458	449	459	463	462	445	460	475	468	464	432	417	420	438	440	431	428	449
4	447	451	460	461	454	465	443	453	445	451	461	461	459	460	468	464	465	451	424	418	418	422	437	453	450
5	456	458	454	456	470	471	465	456	452	457	461	461	467	461	455	466	472	463	449	443	442	443	449	446	457
6	464	468	470	468	469	463	458	459	468	465	462	464	464	465	467	468	472	461	447	439	439	441	453	456	460
7 Q	466	466	468	467	466	467	466	469	466	466	465	469	468	468	473	473	473	466	455	452	448	451	458	461	464
8 Q	466	470	469	471	468	471	471	469	471	471	471	472	473	470	473	476	475	467	460	453	454	457	458	465	468
9 Q	473	472	473	471	471	472	471	468	470	470	473	477	473	475	479	484	482	469	463	458	459	462	466	469	471
10	472	472	476	478	473	476	474	474	475	474	474	477	474	475	480	487	485	476	465	445	457	462	472	476	473
11	469	474	476	475	473	472	462	462	469	473	473	472	472	473	470	466	472	474	467	461	455	456	464	465	469
12 Q	467	469	466	467	468	468	468	470	465	469	468	471	472	468	471	472	469	464	453	442	444	453	468	475	465
13	481	480	477	474	475	475	467	468	467	469	476	480	472	474	486	481	474	464	460	458	464	472	476	483	473
14	473	465	467	465	459	452	453	458	455	446	456	462	465	467	460	463	465	460	453	445	447	454	463	472	459
15	471	466	464	462	460	453	447	440	446	441	439	451	461	462	472	482	483	468	461	451	448	447	461	464	458
16	465	467	464	466	466	464	458	444	450	461	459	464	463	468	473	475	468	455	453	449	452	453	462	468	461
17	473	474	476	470	468	467	465	461	468	468	472	475	474	474	474	480	470	463	454	447	444	449	460	470	467
18	475	473	470	466	466	466	469	471	474	485	476	473	472	477	472	471	468	454	447	438	435	437	453	462	465
19	474	464	471	469	471	471	466	468	465	463	464	467	467	467	462	457	461	451	453	450	433	438	454	442	460
20 D	448	459	467	457	453	441	453	459	460	432	449	458	460	459	448	454	465	460	448	446	440	440	440	440	452
21	454	457	460	465	467	456	475	468	454	458	453	454	461	458	459	457	448	451	442	446	446	452	457	455	456
22	460	461	459	465	464	474	472	472	453	458	465	463	471	471	471	471	464	460	445	444	441	445	450	458	461
23	459	459	465	470	468	470	471	464	467	467	466	468	466	470	467	466	459	454	448	450	442	447	457	454	461
24	459	464	463	470	470	470	466	470	467	468	467	462	473	476	473	472	466	459	456	452	443	451	456	465	464
25	449	455	469	471	466	462	464	463	463	464	459	464	465	464	467	466	466	470	468	455	450	456	462	468	463
26 Q	471	473	474	472	471	474	472	472	472	475	476	476	479	476	479	478	479	472	466	457	452	458	460	470	471
27 D	472	477	478	479	484	488	441	439	418	443	459	456	463	459	403	415	391	419	435	406	382	408	428	431	441
28 D	436	434	418	428	431	427	423	413	422	416	385	432	450	459	452	415	419	407	382	371	376	393	405	403	417
29	398	445	459	452	439	448	446	443	446	446	444	441	464	464	465	469	458	455	448	438	439	444	442	448	448
30 D	453	456	450	456	431	428	460	457	455	443	450	442	451	462	464	460	456	459	447	442	426	444	411	433	447
31	454	460	460	464	460	457	452	470	447	464	460	460	461	455	463	469	465	459	438	438	437	442	446	458	456
MEAN	461	464	465	465	463	463	461	460	458	460	461	464	466	467	466	466	464	457	448	442	440	445	452	457	459

RECORD OF OBSERVATIONS AT VICTORIA MAGNETIC OBSERVATORY 1971

HORIZONTAL INTENSITY

MEAN VALUES FOR PERIODS OF SIXTY MINUTES, UNIVERSAL TIME

TABLE 4 VICTORIA		H = 18,500 GAMMA +																						FEBRUARY 1971	
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	454	463	471	462	460	454	449	448	452	458	453	455	464	467	458	444	460	460	454	445	440	443	450	453	455
2	456	453	461	462	467	467	465	465	465	465	466	465	461	466	470	465	466	466	451	448	442	440	452	454	460
3 Q	458	465	472	473	470	469	474	471	470	469	471	471	471	471	472	472	473	472	466	458	451	450	457	461	467
4 Q	469	474	474	474	472	473	473	470	470	472	477	474	471	473	473	471	473	461	464	459	453	456	460	464	469
5 Q	464	478	480	478	477	475	476	476	479	474	478	481	481	479	480	480	477	477	469	468	464	466	469	472	475
6	474	474	476	475	471	476	468	474	463	466	471	472	476	477	474	472	474	473	471	469	457	458	462	470	471
7	472	473	470	471	469	473	471	471	464	464	466	477	475	480	480	479	480	482	479	476	473	471	471	471	473
8	480	477	469	467	471	473	470	468	473	478	479	478	478	480	479	476	473	474	469	468	465	471	472	476	474
9	479	478	479	477	466	476	470	469	466	472	472	477	477	470	478	473	471	471	469	470	467	469	468	466	472
10	468	471	471	472	470	470	469	466	473	469	470	476	476	477	477	460	473	474	471	464	441	450	449	455	467
11	457	457	461	466	463	467	465	465	469	465	472	474	473	475	473	474	464	454	460	465	466	468	470	471	466
12	462	473	476	476	480	471	471	466	468	474	477	480	481	480	486	486	476	474	473	462	445	445	451	459	471
13 Q	470	476	476	472	469	470	473	471	472	472	474	475	477	477	479	467	463	456	453	458	462	472	474	476	470
14 D	476	482	483	482	481	484	483	480	479	473	473	481	478	473	481	470	453	455	452	437	436	433	452	455	468
15 D	456	449	451	457	461	465	461	454	459	460	463	473	462	475	477	470	457	460	435	433	445	447	422	438	455
16 D	417	405	434	454	453	463	453	453	457	455	460	459	459	463	463	443	455	456	452	437	428	429	445	456	448
17	442	459	461	467	464	456	461	470	465	468	463	463	466	460	468	466	459	457	448	443	439	444	434	447	457
18	454	461	454	458	459	465	462	466	470	460	464	461	459	465	463	464	456	442	433	438	438	444	441	433	455
19	440	452	446	456	468	465	464	463	457	461	468	468	469	471	471	470	459	455	446	436	432	440	446	462	457
20	464	471	459	459	469	470	462	467	469	466	470	470	473	471	472	467	461	461	444	437	430	434	446	455	460
21	457	456	464	463	461	458	465	453	449	457	454	461	468	468	461	468	470	466	454	450	446	451	454	459	459
22 Q	462	468	468	467	466	467	467	474	464	467	471	473	473	473	472	472	468	467	458	450	445	450	462	472	466
23	475	474	470	470	466	475	472	468	471	477	476	476	479	484	484	483	467	465	448	424	398	416	439	440	462
24	449	446	451	455	460	461	460	467	466	467	471	471	479	477	475	472	475	462	451	443	444	435	426	431	458
25 D	443	451	450	451	448	455	448	441	469	470	467	464	480	476	429	468	455	425	402	407	402	407	432	440	445
26 D	449	447	419	409	425	448	444	443	449	444	431	458	457	448	442	453	447	435	436	427	421	423	432	441	439
27	441	453	459	460	461	466	461	463	465	463	467	469	466	463	464	465	464	452	437	422	422	436	447	440	454
28	452	451	442	438	438	453	456	464	465	468	472	468	471	477	472	471	466	451	443	437	444	457	462	456	
MEAN	459	462	462	463	464	467	465	465	466	466	468	470	471	472	470	469	466	461	453	448	442	446	451	456	462

MEAN VALUES FOR PERIODS OF SIXTY MINUTES, UNIVERSAL TIME

TABLE 5 VICTORIA

D = 22 DEG 00.0 MIN EAST +

FEBRUARY

1971

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		
JAY																										
1	21.4	22.8	22.7	22.7	23.2	24.7	26.3	23.7	21.4	23.8	21.7	19.9	21.8	24.7	24.0	23.5	25.8	27.6	27.4	25.5	24.5	23.1	21.7	22.4	23.6	
2	21.3	22.3	23.9	23.9	23.4	23.1	23.5	23.1	23.0	23.7	23.2	23.9	22.0	22.4	23.2	24.0	24.9	26.8	25.7	24.9	23.8	22.8	22.1	20.7	23.4	
3 Q	21.4	21.8	22.5	22.9	23.1	23.9	23.4	23.6	23.7	23.7	22.7	22.9	22.9	22.7	23.3	24.1	24.8	25.9	25.7	25.3	24.3	23.3	22.6	22.2	23.4	
4 Q	21.7	22.3	22.6	23.0	23.1	23.5	23.2	23.3	23.4	22.7	22.6	23.2	23.3	23.4	23.7	25.0	25.7	25.2	24.9	24.1	22.5	21.5	20.8	21.3	23.2	
5 Q	20.3	21.5	22.4	22.5	22.9	23.2	22.7	23.2	23.1	23.7	23.7	23.9	24.6	23.8	23.5	23.5	24.4	25.4	25.3	25.4	24.0	21.9	20.5	20.3	23.2	
6	20.5	20.8	21.2	21.4	22.3	23.0	23.0	23.6	23.3	24.2	23.3	23.4	22.9	24.0	24.3	24.6	25.5	26.0	24.0	24.1	23.4	22.2	21.6	21.6	23.1	
7	21.2	21.6	21.3	21.8	21.9	23.2	22.4	22.9	24.6	25.8	26.2	25.9	25.0	23.2	23.7	23.8	24.4	24.4	23.4	23.2	22.1	21.6	19.9	20.4	23.1	
8	20.2	21.9	22.0	22.2	25.0	22.4	22.8	23.7	23.2	22.7	22.0	24.1	25.0	25.0	23.7	23.7	25.0	24.0	23.7	22.7	21.8	21.0	21.0	21.4	22.9	
9	22.3	22.3	22.7	21.8	22.7	22.9	22.8	23.7	27.9	24.8	23.2	23.1	24.6	23.6	22.1	25.8	25.2	25.2	23.2	22.0	20.9	20.5	21.2	23.0	23.2	
10	22.6	23.0	23.1	23.4	23.1	23.3	23.0	23.0	24.2	23.5	23.0	23.0	21.9	23.0	22.7	18.3	23.8	25.3	23.7	23.2	23.1	20.8	21.4	22.1	22.8	
11	22.3	23.1	23.3	23.4	23.2	23.3	22.4	22.2	21.5	21.8	22.4	23.0	24.0	24.2	24.3	24.6	25.7	23.1	22.4	20.1	20.0	20.1	21.2	22.1	22.7	
12	22.1	22.0	21.3	22.1	22.6	23.0	23.0	23.2	22.1	22.0	22.3	22.9	23.1	22.9	21.6	23.0	24.4	23.2	24.8	24.4	20.9	19.4	18.9	19.9	22.3	
13 Q	22.9	23.0	23.9	23.7	23.9	23.2	23.2	23.1	23.3	22.8	23.2	22.8	23.4	23.7	24.5	26.1	26.7	25.9	24.0	22.2	21.3	21.1	21.4	20.9	23.3	
14 D	21.4	21.9	22.4	23.2	23.3	23.8	22.4	22.4	22.4	19.5	25.2	23.3	25.2	22.4	17.0	28.0	25.2	21.4	22.4	20.7	19.1	18.6	20.0	19.5	22.1	
15 D	21.3	21.4	22.1	20.7	22.3	22.6	24.5	25.0	25.9	27.4	24.9	22.7	29.0	26.6	24.1	24.2	14.8	19.9	23.6	19.2	19.4	20.7	19.8	16.6	22.4	
16 D	19.0	21.3	23.5	21.9	23.7	25.3	25.0	25.5	21.0	22.8	22.2	22.1	21.6	21.8	24.0	23.2	22.0	25.6	24.3	24.1	22.4	21.2	20.2	20.3	22.7	
17	23.5	22.2	22.1	22.8	23.9	23.6	22.5	21.6	23.0	24.8	20.3	22.8	20.0	22.8	24.2	24.5	25.3	23.8	23.1	21.4	20.2	19.1	18.8	18.6	22.3	
18	19.4	20.9	21.5	22.5	23.3	23.5	23.5	24.2	23.3	24.4	23.1	24.6	21.3	22.2	25.4	26.8	27.9	27.8	24.3	22.0	21.3	19.4	18.3	18.9	22.9	
19	18.4	19.0	19.0	21.2	23.1	22.7	24.4	26.5	23.6	22.8	22.5	23.4	22.7	23.7	23.9	25.0	26.3	27.0	25.8	24.2	22.8	21.3	21.7	21.8	23.0	
20	21.2	20.2	20.7	21.9	21.8	22.7	22.6	22.9	23.4	23.0	22.0	22.6	23.4	23.9	23.7	24.4	25.2	25.2	25.0	22.8	21.0	19.5	18.1	20.3	22.4	
21	20.0	20.8	21.7	22.1	21.7	20.9	20.0	26.8	25.1	25.5	26.8	23.8	24.8	24.5	22.8	22.4	25.3	25.7	25.1	23.8	21.5	20.3	20.3	20.5	23.0	
22 Q	21.1	21.5	21.4	22.2	22.3	23.3	22.2	23.9	24.2	23.5	23.2	23.1	23.0	23.6	23.4	23.4	25.4	26.7	27.0	25.2	22.5	20.9	20.1	19.8	23.0	
23	20.4	20.5	21.0	21.4	21.7	21.6	21.6	20.6	23.1	23.5	24.9	25.3	24.5	23.8	23.6	22.2	22.9	27.8	24.3	24.3	18.9	14.5	13.5	18.1	21.8	
24	21.4	22.7	22.7	22.9	22.7	22.9	22.8	22.4	23.0	23.1	23.2	23.4	22.1	24.7	25.8	25.7	27.0	28.6	27.8	25.6	22.4	20.0	18.6	14.7	23.2	
25 D	15.9	19.2	20.9	22.4	23.4	23.3	24.2	25.8	25.1	24.6	24.5	24.2	22.2	25.0	7.0	11.6	14.3	16.9	15.4	17.2	20.3	21.5	20.8	21.9	20.3	
26 D	23.0	21.0	24.0	39.2	21.9	28.2	23.4	24.9	24.0	18.2	17.9	24.7	27.8	25.5	19.6	25.1	27.7	26.9	26.8	26.4	24.1	23.5	23.5	22.8	24.6	
27	22.7	23.3	23.2	23.2	24.0	25.5	23.7	23.5	22.9	23.1	23.1	23.1	23.5	20.1	20.8	24.9	28.3	28.1	27.3	22.7	19.2	19.3	18.4	20.2	23.1	
28	20.8	21.6	21.5	26.1	28.8	24.0	23.9	23.2	23.1	23.0	23.5	23.1	23.1	22.8	22.2	24.9	26.4	27.7	26.8	24.7	21.8	20.1	19.5	19.2	23.4	
MEAN	21.1	21.6	22.2	23.2	23.2	23.4	23.2	23.6	23.5	23.4	23.1	23.4	23.5	23.6	22.6	23.8	24.7	25.3	24.5	23.3	21.8	20.7	20.2	20.4	22.9	

RECORD OF OBSERVATIONS AT VICTORIA MAGNETIC OBSERVATORY 1971

VERTICAL INTENSITY

MEAN VALUES FOR PERIODS OF SIXTY MINUTES, UNIVERSAL TIME

TABLE 6 VICTORIA

Z = 53,000 GAMMA +

FEBRUARY

1971

- 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	117	117	114	115	114	114	119	114	95	87	99	97	98	98	98	100	111	110	106	108	105	109	112	114	107
2	111	112	116	118	116	114	113	111	112	111	110	110	106	106	106	109	117	113	106	102	100	105	109	110	110
3 Q	115	117	115	116	113	115	113	114	110	110	110	112	109	110	111	114	114	110	106	103	103	104	105	105	111
4 Q	110	111	111	111	110	111	109	109	108	107	107	107	109	111	107	108	107	104	99	95	91	93	98	104	106
5 Q	107	111	111	113	109	109	109	108	110	108	105	101	103	106	107	109	106	107	105	102	99	99	102	106	106
6	105	107	108	110	111	112	111	110	109	111	112	109	104	104	104	108	111	107	102	98	97	97	101	103	106
7	105	107	107	108	110	112	112	110	117	109	105	105	105	108	106	109	109	106	101	98	96	94	93	95	105
8	103	104	105	108	110	109	108	109	106	103	98	100	102	104	101	105	107	106	102	100	101	104	107	101	104
9	105	104	104	104	106	110	110	111	107	107	109	110	107	100	92	92	101	103	101	102	103	106	106	107	104
10	107	106	105	107	106	105	105	107	106	105	105	103	100	100	99	92	102	103	101	100	99	108	107	107	104
11	108	108	108	109	107	108	108	107	107	108	108	107	104	103	102	104	105	104	101	100	98	100	101	105	105
12	104	104	105	105	105	105	104	105	109	108	107	106	103	101	93	96	99	98	91	93	98	104	108	110	103
13 Q	114	113	110	108	106	106	106	107	108	107	106	106	104	104	102	104	108	107	106	105	105	106	106	104	107
14 D	106	104	105	103	102	102	103	103	108	99	109	109	104	93	67	69	72	78	82	85	93	100	109	111	97
15 D	113	113	116	122	121	124	124	124	122	117	113	98	92	101	104	97	75	76	83	94	98	102	105	123	107
16 D	176	162	161	136	129	128	124	126	119	102	104	105	102	103	98	92	100	102	98	100	101	110	113	115	117
17	128	127	124	120	121	119	118	116	104	108	111	107	102	101	103	106	111	106	101	100	100	104	106	112	111
18	113	116	116	119	117	119	115	115	106	108	112	109	97	90	96	105	106	106	102	101	104	107	104	109	108
19	116	120	119	125	122	123	117	118	118	120	115	113	115	114	112	115	113	108	103	96	95	100	104	109	113
20	110	110	111	115	113	113	110	110	109	109	107	106	107	111	108	110	108	110	103	94	97	102	101	104	107
21	110	110	113	113	116	118	112	112	118	119	117	112	106	110	108	107	109	103	93	91	93	99	102	106	108
22 Q	108	109	109	110	110	110	112	110	103	112	110	109	109	107	107	108	112	110	110	99	96	100	109	109	108
23	111	110	108	110	109	114	113	115	119	115	114	115	110	110	111	108	105	101	90	84	90	105	112	113	108
24	115	115	115	114	116	115	113	115	113	114	111	107	104	102	106	110	116	111	105	98	102	102	106	118	110
25 D	144	132	140	127	127	123	122	122	121	100	101	104	85	93	37	22	44	55	58	74	95	117	122	125	100
26 D	122	121	130	167	171	157	123	124	107	81	52	79	95	98	82	92	109	106	100	94	92	99	105	112	109
27	116	117	116	115	115	117	113	113	113	114	113	112	110	102	87	100	109	109	105	106	109	112	118	120	111
28	128	125	123	128	127	128	126	123	120	116	112	112	113	111	111	113	113	108	105	103	105	109	110	111	116
MEAN	115	115	115	116	116	116	113	113	111	108	107	106	104	104	99	100	104	102	99	97	99	103	106	110	107

HORIZONTAL INTENSITY

MEAN VALUES FOR PERIODS OF SIXTY MINUTES, UNIVERSAL TIME

TABLE 7 VICTORIA

H = 18,500 GAMMA +

MARCH 1971

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	462	465	469	468	459	462	467	467	469	468	470	477	476	478	477	480	472	462	449	439	438	438	453	468	464
2	477	477	477	476	472	470	474	472	472	476	474	476	478	473	477	480	482	471	466	451	444	446	453	458	470
3	474	472	478	477	471	472	466	473	467	478	475	477	479	482	482	480	481	476	459	438	432	436	447	452	468
4	460	459	448	469	475	474	471	473	471	470	474	465	477	487	484	475	469	468	452	451	446	444	448	458	465
5	463	460	464	466	474	476	472	472	479	474	473	476	475	472	481	476	479	476	463	453	449	452	459	463	469
6	467	468	472	467	471	472	473	473	472	479	475	475	477	476	479	477	476	467	461	449	446	445	451	463	468
7	467	466	473	475	473	473	474	471	474	475	477	479	480	479	484	479	475	473	464	452	444	450	458	470	470
8 D	475	478	459	461	475	478	478	482	478	480	487	495	494	491	491	489	487	480	476	461	455	454	458	465	476
9	472	472	477	471	466	468	467	479	466	469	475	473	479	483	483	485	480	470	465	455	448	449	454	471	470
10	472	467	473	479	480	478	469	480	467	474	471	480	479	475	471	479	472	457	460	449	445	442	452	464	468
11	470	473	475	473	456	466	470	475	479	479	481	488	486	484	486	479	482	472	457	451	453	455	458	467	471
12	482	481	484	484	479	479	481	484	483	483	483	486	465	481	485	482	462	443	435	406	412	413	448	450	465
13 D	463	465	465	469	464	455	457	449	456	445	440	451	460	462	445	457	455	413	395	405	416	429	428	435	445
14 D	454	460	458	458	461	462	443	442	447	442	454	445	451	468	464	468	454	451	439	434	430	420	424	456	449
15 D	435	448	454	449	446	453	468	455	451	461	457	468	467	467	462	458	449	435	453	443	438	437	444	460	452
16	445	465	463	469	459	467	466	462	470	457	471	472	468	473	474	465	470	468	447	439	424	420	439	456	459
17	471	483	483	483	481	485	485	497	487	478	483	475	483	475	473	471	467	447	447	441	437	447	451	465	471
18	454	461	471	471	470	466	472	474	473	474	476	479	478	479	477	471	463	455	443	435	431	435	450	466	464
19	470	471	481	470	471	462	473	474	471	474	478	479	479	479	479	480	465	466	466	445	431	430	430	444	465
20	445	450	453	455	446	452	455	460	479	470	470	473	473	472	472	468	457	447	439	437	441	439	443	449	456
21 Q	467	471	473	473	472	471	473	471	469	470	472	471	475	475	473	472	464	448	443	442	442	443	448	458	464
22 Q	467	474	473	476	474	473	474	473	473	481	476	479	478	478	475	478	476	468	465	457	453	456	461	470	471
23 Q	468	479	482	484	482	485	484	485	489	495	493	496	491	488	491	495	491	476	468	458	460	455	467	474	481
24	483	486	480	480	476	474	487	474	463	465	483	484	486	486	487	484	478	463	461	446	451	458	464	458	473
25	469	470	483	482	478	478	459	447	449	477	485	482	477	479	474	472	467	456	455	456	454	451	465	477	468
26	470	472	473	473	470	469	472	458	459	470	477	478	478	470	476	478	467	456	463	470	464	464	472	478	470
27	478	469	469	474	465	472	477	480	481	481	487	488	479	476	491	481	474	462	457	453	458	462	471	476	473
28 Q	477	476	482	475	479	480	477	481	486	484	486	487	486	487	490	488	477	473	458	453	454	461	467	477	477
29 Q	482	481	480	482	480	478	482	484	480	480	483	491	488	487	489	493	487	480	471	458	453	451	459	468	478
30	477	476	484	482	486	479	481	485	486	482	490	487	491	488	495	484	491	476	461	434	431	436	452	464	475
31 D	450	457	465	440	467	459	465	465	445	463	465	470	478	474	468	474	445	440	424	414	437	448	453	451	455
MEAN	467	469	472	471	470	471	471	472	471	473	476	477	478	478	479	477	471	461	454	444	442	444	452	462	467

RECORD OF OBSERVATIONS AT VICTORIA MAGNETIC OBSERVATORY 1971

DECLINATION

MEAN VALUES FOR PERIODS OF SIXTY MINUTES, UNIVERSAL TIME

TABLE 8 VICTORIA

D = 22 DEG 00.0 MIN EAST +

MARCH 1971

HOUR = 00 TO 01	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 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		
JAY																									
1	20.9	21.4	22.3	22.6	23.8	23.3	23.1	23.6	24.9	24.0	22.1	22.6	22.9	23.1	23.4	24.8	26.4	28.1	27.9	26.6	23.2	20.9	19.4	19.5	23.4
2	19.8	21.1	21.7	22.1	22.6	23.5	22.7	22.8	22.8	23.2	22.8	23.2	23.4	23.5	23.1	24.2	26.3	27.0	27.9	26.6	23.8	21.1	19.5	17.5	23.0
3	19.7	20.7	22.0	22.9	22.8	23.2	22.9	24.8	23.6	23.0	23.0	23.1	24.2	23.4	23.4	24.0	25.6	28.0	29.4	26.1	22.3	19.7	17.7	17.6	23.0
4	18.6	19.8	21.1	21.6	23.0	23.2	24.0	27.0	25.5	24.1	24.2	20.7	25.3	23.7	22.9	23.9	22.9	24.3	25.1	22.6	19.9	19.3	19.8	19.7	22.6
5	20.4	21.2	22.3	22.4	23.6	22.7	23.0	22.7	22.3	24.4	23.8	23.7	24.2	21.1	22.0	22.6	25.3	27.1	26.3	24.1	22.1	21.1	20.4	19.7	22.9
6	20.9	21.3	20.9	22.5	22.5	22.4	22.4	22.5	22.8	22.8	24.4	23.5	24.1	24.4	23.8	24.4	25.6	26.6	26.5	24.7	23.8	20.9	20.0	19.5	23.0
7	20.2	20.4	21.0	22.2	23.0	22.7	22.6	22.8	23.8	24.6	23.9	23.6	24.3	23.3	23.2	25.2	26.0	24.8	25.5	24.4	21.9	19.6	18.8	18.5	22.8
8 D	19.3	20.2	21.5	21.3	21.8	22.6	21.8	22.6	22.9	23.0	22.7	24.0	26.0	25.1	22.0	24.4	25.3	23.1	23.2	24.0	22.1	20.9	20.1	20.8	22.5
9	21.7	21.7	22.4	22.4	22.7	24.7	24.6	25.2	25.2	25.7	23.7	22.8	23.1	23.0	23.7	25.2	27.0	27.5	25.7	25.3	23.1	21.6	20.8	20.3	23.7
10	20.2	21.3	21.2	21.9	22.6	22.2	22.5	29.0	25.4	24.7	25.1	22.8	24.1	22.3	16.8	24.2	25.3	23.5	25.2	23.2	22.6	21.4	20.6	20.7	22.8
11	21.6	21.8	22.2	22.5	26.1	23.5	22.8	22.8	23.2	22.8	22.8	22.7	22.7	23.7	24.4	23.4	23.5	25.8	26.0	23.3	22.0	20.5	20.2	20.0	22.9
12	20.5	21.0	21.3	22.4	22.4	22.2	22.4	22.6	23.0	23.5	25.7	26.0	27.4	20.3	25.4	25.3	24.8	19.0	17.2	19.3	14.9	14.5	15.4	15.7	21.3
13 D	19.8	19.9	21.3	20.3	21.7	22.9	22.8	25.9	34.5	27.0	28.9	20.0	24.7	25.6	27.1	24.7	26.9	30.1	21.4	20.6	21.4	22.4	22.3	20.9	23.9
14 D	22.7	21.6	21.1	23.3	31.1	24.4	25.5	23.1	24.4	32.4	31.1	22.1	18.6	20.1	24.4	25.2	26.6	26.6	25.8	24.6	23.5	21.9	22.8	19.7	24.3
15 D	19.5	19.9	20.9	27.0	22.9	21.7	22.9	22.6	22.0	25.9	23.4	21.9	24.4	24.4	24.7	24.7	28.3	27.0	28.1	27.0	23.9	22.0	20.8	18.6	23.5
16	21.9	21.3	20.9	21.4	22.9	24.7	24.4	24.6	24.4	22.1	23.4	24.1	23.8	23.1	23.5	22.0	25.9	27.8	27.9	25.8	23.9	20.8	18.7	17.5	23.2
17	19.0	19.1	20.0	20.8	22.2	23.0	24.1	24.8	25.2	25.5	25.4	23.3	23.1	25.4	24.8	27.7	30.6	28.8	19.4	23.7	21.3	19.8	19.3	18.6	23.1
18	17.1	19.5	20.9	21.8	21.9	22.6	23.1	23.2	23.7	22.9	21.2	22.2	23.4	23.3	24.2	26.4	27.4	27.2	26.8	24.8	22.9	21.1	20.2	18.4	22.7
19	19.0	20.1	20.9	22.6	24.7	22.2	23.0	22.9	23.2	23.6	23.3	22.8	22.2	18.0	22.5	28.6	26.3	22.9	22.4	24.6	22.4	19.8	18.0	18.1	22.3
20	17.3	18.4	19.3	16.8	18.8	28.4	24.7	23.9	24.1	23.5	23.7	22.8	22.8	23.1	24.3	26.5	28.5	27.9	27.1	25.1	23.2	21.6	19.8	18.8	23.0
21 D	20.1	20.4	21.5	22.2	22.5	22.5	22.7	23.2	26.2	26.0	24.8	23.4	23.5	23.4	24.3	25.8	27.8	28.1	26.3	22.7	21.5	20.3	19.9	19.9	23.3
22 D	19.8	19.8	20.4	20.6	21.3	21.5	22.0	22.4	22.8	23.0	23.1	22.8	23.3	24.0	25.4	25.8	27.6	28.1	26.2	24.3	22.9	21.3	20.0	18.7	22.8
23 D	18.3	19.3	20.0	20.8	21.3	21.2	21.7	22.0	22.3	22.4	23.4	23.6	24.0	24.1	24.7	25.9	27.4	28.0	25.7	22.8	22.6	20.8	20.1	19.1	22.6
24	19.9	20.1	20.9	21.5	22.2	22.7	21.8	24.3	29.2	24.1	22.0	23.8	24.2	24.0	25.3	26.7	29.0	27.3	23.5	20.6	18.7	18.8	18.1	18.0	22.8
25	20.8	20.2	20.8	21.2	21.5	21.4	28.9	37.0	27.4	18.0	23.6	22.4	21.2	23.9	25.8	27.1	27.9	26.7	24.2	22.1	20.6	19.6	19.7	19.1	23.4
26	20.3	22.0	21.0	21.2	20.9	20.5	21.1	18.7	27.9	26.1	27.2	24.5	23.9	22.5	23.4	24.4	26.8	24.6	21.5	20.1	19.8	18.9	19.5	19.8	22.4
27	20.9	21.3	21.9	23.4	22.8	23.8	23.3	22.4	21.3	21.1	22.0	21.0	24.5	19.1	23.3	26.2	27.4	27.3	24.6	22.1	19.3	18.0	18.0	18.9	22.2
28 D	20.6	21.1	21.6	21.9	22.1	22.4	21.9	22.5	22.3	22.5	22.9	22.9	23.3	23.8	25.0	27.1	28.6	28.7	28.4	25.6	22.0	18.9	17.6	17.5	23.0
29 D	18.4	19.9	21.1	21.7	22.2	22.1	23.0	22.8	22.8	23.0	22.7	23.1	22.1	23.1	24.6	26.2	28.0	29.2	29.1	27.5	24.2	21.1	18.3	17.0	23.0
30	18.8	19.2	20.7	21.9	21.5	21.3	21.5	21.6	22.5	22.1	23.2	24.7	23.2	23.4	26.2	28.2	29.7	30.9	30.7	25.4	20.2	17.2	15.4	15.5	22.7
31 D	13.7	16.6	16.1	20.1	21.5	22.2	23.6	26.4	29.3	26.7	30.6	25.3	23.8	23.6	21.2	21.5	25.4	25.9	25.3	20.6	17.2	18.1	17.7	16.8	22.0
MEAN	19.3	20.4	21.0	21.8	22.7	22.8	23.1	24.0	24.5	24.0	24.2	23.1	23.6	23.1	23.8	25.2	26.8	26.7	25.5	23.9	21.7	20.1	19.3	18.7	22.9

VERTICAL INTENSITY

MEAN VALUES FOR PERIODS OF SIXTY MINUTES, UNIVERSAL TIME

TABLE 9 VICTORIA

Z = 53,000 GAMMA +

MARCH 1971

DAY	HOUR																								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	115	113	113	112	112	115	114	113	114	111	112	113	111	110	111	112	111	106	99	87	88	99	106	111	109
2	112	108	109	107	108	110	112	112	111	112	112	109	110	107	108	108	108	104	101	94	98	100	103	109	107
3	114	111	110	111	110	112	113	114	113	112	111	109	108	107	108	108	105	106	102	93	91	92	100	105	107
4	114	120	124	125	119	114	113	114	113	112	110	91	77	77	69	74	80	84	89	87	85	96	100	105	100
5	111	112	114	113	114	106	109	110	102	104	107	107	105	105	101	101	104	103	98	89	91	99	102	105	105
6	111	108	111	111	110	111	107	107	107	107	104	104	103	105	106	109	109	109	108	103	97	98	96	98	106
7	105	108	111	112	112	108	111	110	110	109	107	107	104	103	100	102	105	103	98	88	88	92	96	97	104
8 D	64	106	107	113	112	111	109	105	106	104	103	80	70	84	93	97	101	100	95	91	92	98	99	103	98
9	108	106	107	107	106	110	108	102	100	99	101	102	100	103	105	108	107	103	99	97	96	95	98	98	103
10	102	102	106	107	107	104	104	100	92	93	96	96	96	98	88	95	102	98	97	95	93	96	102	98	99
11	105	105	106	105	108	111	109	109	106	106	103	97	89	94	98	102	104	104	100	95	99	100	100	99	102
12	103	102	104	103	104	105	105	104	104	101	93	81	73	76	86	100	100	89	77	80	90	96	118	119	96
13 D	119	113	112	114	122	132	137	141	124	75	87	63	55	64	82	98	92	89	90	93	97	106	116	116	102
14 D	126	120	119	123	130	122	123	121	117	79	40	73	63	75	92	109	110	106	108	111	111	111	124	135	106
15 D	145	136	135	138	145	137	124	100	96	101	101	104	106	110	109	111	110	108	108	100	107	110	111	115	115
16	114	127	124	124	125	122	123	119	118	106	93	87	92	101	102	98	99	101	99	96	96	99	110	115	108
17	116	120	118	118	125	125	114	109	96	100	102	100	94	97	101	102	104	98	93	92	93	100	108	114	106
18	113	118	116	115	116	115	116	111	114	110	110	105	106	108	110	111	110	106	102	101	100	100	102	103	109
19	111	110	113	111	114	113	113	113	112	112	112	112	106	88	82	89	98	98	102	97	103	105	115	124	106
20	127	131	131	137	149	141	125	127	118	104	112	112	113	112	113	114	114	112	108	106	102	101	104	106	117
21 Q	113	113	114	113	111	108	109	109	110	104	104	106	109	108	110	112	110	107	99	97	100	102	107	107	108
22 Q	113	110	113	111	111	110	108	108	109	108	107	107	107	106	107	109	108	103	95	92	87	86	87	93	104
23 Q	105	104	105	107	105	105	105	105	106	103	103	99	101	99	104	106	100	95	90	89	88	87	91	92	100
24	99	102	102	104	106	107	106	102	102	106	106	101	102	105	106	106	103	95	93	83	85	91	95	100	100
25	109	108	110	107	107	106	108	114	93	85	91	98	93	96	102	105	103	95	90	86	86	89	98	103	99
26	111	109	112	109	111	113	117	114	113	112	108	106	105	100	101	102	106	101	97	95	89	94	100	101	105
27	106	108	108	110	110	112	111	102	102	101	93	84	83	81	88	95	98	97	94	92	94	100	102	99	99
28 Q	107	107	107	106	106	106	106	106	106	106	105	104	102	102	103	106	109	104	96	88	87	90	91	94	102
29 Q	101	103	103	103	103	101	104	102	103	102	103	102	101	99	100	100	105	101	97	88	85	83	84	89	98
30	99	101	103	103	102	103	104	103	104	101	92	94	94	92	94	94	93	82	76	69	69	76	87	100	93
31 D	106	112	130	159	140	124	125	113	87	87	84	89	98	99	92	87	79	77	82	91	96	95	102	101	101
MEAN	110	111	113	114	115	114	113	110	107	102	101	98	96	97	99	102	103	100	96	92	93	96	101	105	104

RECORD OF OBSERVATIONS AT VICTORIA MAGNETIC OBSERVATORY 1971

MEAN VALUES FOR PERIODS OF SIXTY MINUTES, UNIVERSAL TIME

TABLE 11 VICTORIA		D = 22 DEG 00.0 MIN EAST +																				APRIL 1971			
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	19.3	20.2	21.8	22.0	22.9	23.5	31.4	28.2	25.0	23.8	21.9	19.5	22.0	23.7	24.9	25.7	27.3	27.0	28.0	25.9	23.7	21.8	19.5	18.6	23.6
2	19.6	20.7	21.4	22.0	22.2	22.0	22.0	22.2	22.1	22.7	22.8	22.1	17.3	20.1	24.4	25.4	27.6	27.3	26.2	23.6	20.3	19.1	18.0	17.7	22.0
3	20.9	21.2	20.3	21.5	21.4	20.8	21.9	22.3	24.7	21.6	18.9	24.0	23.2	23.9	24.7	23.0	23.3	25.8	26.0	24.6	22.2	19.5	15.5	16.9	22.0
4 D	13.0	19.5	20.7	22.6	22.6	19.7	20.5	21.7	22.0	22.4	22.4	22.4	21.6	19.2	22.7	23.5	22.2	18.0	19.6	22.9	20.8	19.0	18.2	19.5	20.7
5	24.3	22.2	22.5	22.4	22.0	21.9	22.1	22.2	23.2	22.9	22.0	23.4	22.7	24.0	25.3	24.5	26.7	26.7	25.8	24.0	23.8	22.1	20.5	20.0	23.2
6	20.9	19.8	24.5	24.9	27.4	24.5	25.4	26.6	27.4	24.7	20.9	23.9	25.0	24.1	24.9	27.3	28.7	28.8	28.2	24.2	21.8	20.2	19.7	19.7	24.3
7	20.6	20.8	21.7	21.8	22.9	28.2	22.1	22.3	21.7	22.4	23.1	22.8	23.4	23.5	25.3	27.2	28.5	28.6	27.1	25.3	22.5	20.4	19.1	17.7	23.3
8 Q	18.5	19.7	20.8	21.4	21.9	22.1	22.0	23.1	24.6	22.4	22.8	21.7	22.4	25.3	26.6	27.3	26.8	26.7	24.5	23.1	20.9	19.7	17.9	16.4	22.4
9 D	16.7	17.8	19.6	20.9	20.2	23.1	48.3	35.3	32.9	35.0	26.2	35.0	35.4	32.9	32.2	29.6	29.1	28.1	17.2	17.8	18.6	18.2	17.1	19.4	26.1
10 D	17.1	23.4	18.7	21.8	28.0	24.1	24.6	21.8	23.4	21.2	23.0	24.7	22.1	23.8	24.0	20.7	18.3	22.1	23.7	23.1	22.5	23.4	21.3	20.3	22.4
11	20.8	20.6	21.9	23.2	26.3	24.9	28.0	22.1	23.8	16.5	31.3	29.9	25.0	22.0	24.1	28.0	22.3	25.5	24.8	21.8	21.0	20.0	19.0	17.9	23.4
12	21.3	20.8	23.5	21.8	22.5	23.0	22.0	21.1	21.5	22.9	22.1	21.5	23.7	23.7	23.6	25.8	26.9	27.6	26.7	25.0	20.7	18.5	17.9	17.9	22.6
13	17.8	18.8	20.9	22.9	23.8	21.9	22.6	23.0	20.9	23.4	21.6	18.8	20.9	25.5	27.4	27.4	27.9	28.3	24.5	21.1	19.0	17.8	17.6	17.8	22.1
14 D	18.9	21.0	21.2	20.7	21.2	21.1	21.5	23.1	22.1	22.4	23.2	23.3	23.3	24.9	28.7	28.7	26.3	30.6	28.6	24.1	20.1	17.5	13.6	12.8	22.5
15 D	14.2	10.9	19.1	12.0	17.6	21.6	20.2	21.8	22.1	16.4	23.4	29.6	24.5	19.8	23.6	27.2	28.1	26.8	25.0	22.1	19.1	18.1	16.1	17.1	20.7
16	18.6	16.7	19.1	19.9	19.4	21.6	23.3	22.0	22.4	22.6	22.7	18.2	20.9	23.5	24.6	25.3	26.7	26.4	25.3	23.4	21.6	20.3	18.5	19.0	21.7
17	19.0	19.5	19.8	22.1	22.0	22.7	20.0	21.1	20.1	21.8	23.4	24.0	23.8	24.0	24.6	24.4	25.9	25.6	23.3	21.6	20.7	20.3	18.7	18.3	21.9
18	19.1	19.4	20.1	20.6	21.0	23.6	22.7	22.0	21.9	22.6	22.4	22.5	23.7	25.1	25.5	25.9	25.6	22.3	21.5	22.8	23.4	22.0	20.2	19.3	22.3
19	18.0	19.6	20.8	23.5	24.9	23.5	22.5	21.2	20.2	21.0	22.7	22.7	23.1	24.8	25.2	26.5	26.8	26.8	24.2	21.4	20.3	19.7	18.6	17.7	22.3
20 Q	18.6	18.9	20.1	20.9	22.4	22.0	22.0	22.3	23.2	23.6	23.0	23.5	23.1	23.0	23.4	24.1	25.3	26.0	25.4	24.4	23.5	21.8	20.7	18.7	22.5
21	18.2	17.7	19.9	20.7	21.5	21.3	21.9	22.1	22.1	23.9	25.1	28.0	28.5	26.6	24.8	23.8	25.0	21.7	21.2	17.7	15.5	17.4	19.4	20.4	21.8
22	18.8	16.2	15.8	20.2	20.6	23.9	21.4	21.1	22.0	22.9	23.1	22.3	22.5	23.0	23.2	24.8	27.5	26.3	25.2	21.0	19.6	19.9	19.2	19.7	21.7
23	19.8	19.9	20.5	21.3	22.6	22.8	21.1	22.2	24.2	27.2	25.7	25.0	25.1	25.2	25.5	28.0	28.2	27.4	23.1	19.9	17.6	17.5	18.9	19.5	22.8
24 Q	20.3	20.7	21.0	21.8	22.1	22.7	22.0	22.1	21.9	22.3	22.4	22.6	22.3	23.4	24.9	27.5	29.3	29.0	25.6	22.1	20.0	19.4	19.6	19.7	22.7
25 Q	20.8	20.7	21.5	21.8	21.7	22.7	21.4	21.6	22.2	22.5	22.3	23.3	23.6	24.6	25.5	27.2	28.1	27.5	25.0	22.1	20.2	20.5	20.4	20.4	22.8
26 Q	20.1	20.3	20.3	20.6	21.1	21.8	22.0	22.2	22.3	21.9	22.7	22.6	23.3	26.7	28.6	28.6	27.2	27.5	23.9	22.5	21.7	21.0	19.9	16.7	22.7
27	17.6	18.9	19.8	21.3	21.0	22.5	23.3	23.7	29.2	28.0	24.3	20.4	24.3	25.7	26.3	27.2	27.9	27.2	24.7	23.1	20.9	19.5	18.7	17.4	23.0
28	17.0	17.4	19.2	19.5	22.5	19.6	19.9	20.3	25.9	23.9	23.3	23.9	24.5	28.0	29.2	25.5	26.2	26.9	24.5	22.6	19.9	18.2	17.2	17.5	22.2
29	17.9	18.9	19.8	20.9	21.3	21.1	22.1	21.9	21.6	22.0	22.1	22.8	22.7	23.4	24.0	25.2	26.9	26.9	26.1	24.6	22.0	19.1	17.5	16.5	22.0
30	17.5	17.6	19.7	19.9	21.8	22.6	21.7	24.1	23.6	22.7	22.5	19.4	20.3	25.0	24.9	26.4	26.4	25.7	24.9	23.1	21.8	20.7	19.8	19.3	22.1
MEAN	18.8	19.3	20.5	21.2	22.3	22.6	23.4	22.9	23.3	23.0	23.1	23.5	23.5	24.3	25.4	26.1	26.4	26.4	24.7	22.7	20.9	19.8	18.6	18.3	22.5

VERTICAL INTENSITY

MEAN VALUES FOR PERIODS OF SIXTY MINUTES, UNIVERSAL TIME

TABLE 12 VICTORIA

Z = 53,000 GAMMA +

APRIL 1971

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							
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	111	110	115	116	119	120	104	89	103	104	106	104	99	103	107	107	102	95	95	91	91	90	92	95	103																									
2	103	105	106	106	107	106	106	108	105	102	104	103	77	63	63	78	84	85	86	86	92	94	96	99	94																									
3	111	117	113	112	112	115	118	119	117	100	72	94	102	104	104	101	98	93	90	87	90	98	97	98	103																									
4 D	123	159	162	144	137	128	120	113	112	111	109	107	106	101	86	91	79	59	78	84	91	97	107	114	109																									
5	118	116	119	115	112	111	112	112	113	113	108	106	108	110	112	111	110	107	97	92	95	94	98	106	108																									
6	110	113	124	120	123	109	110	102	94	89	75	84	102	109	113	119	118	112	102	99	101	101	101	106	106																									
7	111	110	111	112	111	114	109	108	105	102	105	107	107	107	111	109	107	104	104	101	100	96	99	102	106																									
8 Q	104	107	109	107	106	106	106	107	106	105	105	100	86	75	83	89	91	88	86	84	84	86	84	86	95																									
9 D	95	103	106	110	110	116	104	86	107	114	100	49	62	73	81	93	97	85	90	100	108	111	121	128	98																									
10 D	136	153	146	162	156	165	139	123	111	87	95	99	102	101	95	86	83	87	94	106	103	112	115	112	115																									
11	119	120	122	126	125	104	121	124	117	73	45	64	98	85	87	91	80	85	86	94	106	112	117	119	101																									
12	131	130	130	121	119	117	116	113	105	103	104	98	103	100	104	102	100	97	96	102	103	106	108	110	109																									
13	117	115	118	119	117	115	115	111	101	102	99	84	71	76	89	92	98	101	95	93	98	102	104	109	102																									
14 D	116	119	119	116	112	111	112	112	111	105	107	105	102	78	74	72	75	72	72	74	83	100	132	212	104																									
15 D	215	231	257	181	164	164	143	132	130	88	53	38	46	84	116	128	129	126	121	124	121	122	121	137	132																									
16	150	140	143	145	141	144	132	129	124	119	113	96	95	109	114	117	120	115	110	106	105	107	111	114	121																									
17	117	121	124	129	132	137	128	114	113	99	104	110	113	113	115	119	117	113	110	107	107	111	113	115	116																									
18	119	118	122	120	118	116	117	115	113	113	113	107	101	104	106	104	103	100	103	105	101	101	100	104	109																									
19	115	116	125	124	121	117	112	114	108	104	107	109	109	110	108	108	105	100	93	92	96	95	100	100	108																									
20 Q	102	108	111	111	111	109	107	106	101	104	105	105	106	106	103	103	107	102	92	87	85	86	92	96	102																									
21	102	106	109	108	106	106	108	107	107	96	90	85	81	85	93	99	107	98	88	93	103	119	139	172	104																									
22	171	177	170	141	132	131	128	123	116	117	116	118	117	117	111	111	115	111	107	105	110	116	120	116	125																									
23	114	113	114	115	118	117	117	118	115	111	111	114	114	112	113	114	111	103	93	91	95	105	107	112	110																									
24 Q	116	114	113	114	113	113	111	110	112	109	111	108	106	104	105	107	113	111	104	103	102	100	107	108	109																									
25 Q	112	110	110	111	112	112	111	112	111	111	107	107	109	108	110	114	111	104	97	96	100	100	104	104	108																									
26 Q	108	104	110	109	109	111	110	110	110	110	108	107	103	101	102	106	104	101	97	93	92	95	98	99	104																									
27	104	106	113	111	112	116	118	115	108	104	108	97	92	96	98	97	95	93	87	86	90	94	97	103	102																									
28	112	114	112	115	121	123	125	129	118	116	105	83	91	90	71	66	69	80	83	87	85	88	91	99	99																									
29	103	108	105	106	104	102	104	103	105	107	103	106	103	104	100	98	95	93	94	91	87	84	82	91	99	99																								
30	98	107	103	110	109	112	111	109	106	106	105	102	89	91	98	99	100	93	86	84	88	90	94	94	99																									
MEAN	119	122	125	121	120	119	116	112	110	104	100	97	97	97	99	101	101	97	95	95	97	100	105	112	107																									

MEAN VALUES FOR PERIODS OF SIXTY MINUTES, UNIVERSAL TIME

TABLE 13 VICTORIA

H = 18,500 GAMMA +

MAY 1971

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	
JAY																									
1	506	487	485	471	483	483	486	490	494	496	491	495	492	491	495	493	485	471	464	458	467	472	479	480	484
2	472	469	462	442	427	444	431	451	466	479	478	483	479	485	479	477	481	474	471	466	461	458	461	465	465
3	474	473	470	470	473	476	472	481	483	484	482	481	482	479	482	478	468	468	462	454	457	466	467	473	473
4	456	442	448	467	473	478	480	486	489	492	492	489	487	487	484	479	469	465	457	460	466	473	475	478	474
5	474	465	475	480	480	479	485	485	488	491	496	491	495	495	497	494	480	489	464	457	467	487	486	481	483
6 D	513	477	463	468	471	483	492	475	423	423	486	485	480	468	454	467	457	430	425	460	462	470	462	475	465
7 D	469	479	458	455	489	457	475	451	467	461	457	464	463	466	466	461	447	433	426	432	432	447	448	469	457
8	471	475	478	478	474	476	481	493	484	480	478	471	480	478	476	471	461	452	451	456	454	460	459	473	471
9	483	479	475	484	470	492	480	478	477	471	462	462	469	470	473	469	465	453	435	417	426	438	453	462	464
10	467	474	473	472	464	467	460	463	479	485	482	484	478	473	469	469	463	450	437	428	437	446	454	463	464
11	470	472	476	476	471	465	465	475	474	474	476	476	477	477	480	478	470	461	452	447	446	450	453	463	468
12 Q	462	468	478	476	476	476	478	473	477	479	478	479	477	478	477	475	471	468	462	458	459	456	461	468	471
13 Q	468	457	468	471	470	470	475	476	481	481	481	482	479	477	476	472	471	463	452	453	455	454	454	460	469
14	478	479	480	472	467	476	480	478	486	495	478	473	478	485	479	470	438	438	440	449	451	458	457	451	468
15	470	478	464	454	458	456	458	463	470	470	474	477	472	474	466	464	462	458	456	456	458	470	471	478	466
16	478	475	476	476	479	479	483	484	486	486	487	490	489	487	482	472	459	457	453	465	473	475	488	486	478
17 D	481	465	462	457	471	471	515	485	485	492	502	433	475	476	420	448	472	478	443	461	476	469	475	449	469
18 D	475	462	458	468	454	432	449	438	420	423	449	413	454	463	435	444	429	433	453	454	454	460	469	483	449
19	489	471	470	458	460	465	471	466	464	464	473	479	476	485	478	476	468	462	455	448	453	458	455	463	467
20	469	471	471	464	465	471	475	476	476	471	472	477	479	477	471	469	467	460	456	464	475	474	476	470	470
21	483	474	471	471	472	473	474	478	479	485	485	484	480	487	487	479	468	473	469	464	464	465	471	478	476
22	483	475	479	481	478	473	477	478	475	477	480	478	479	481	480	475	458	449	446	451	457	465	476	478	472
23	494	478	460	474	476	475	475	469	475	489	490	486	487	495	490	483	478	467	465	460	451	462	471	475	476
24	486	480	485	473	478	474	477	482	485	484	486	482	487	488	489	474	470	470	456	451	454	467	479	486	477
25	474	476	477	476	480	478	472	480	485	484	488	485	487	487	483	475	465	455	453	453	458	476	477	492	476
26	488	489	485	473	463	468	485	478	476	478	477	475	477	475	472	471	465	459	467	466	464	457	461	467	472
27 Q	474	477	478	473	474	472	473	477	475	478	478	478	478	481	486	481	477	469	465	465	467	469	471	471	474
28 Q	478	481	480	480	480	478	482	485	484	486	484	487	491	491	493	494	486	483	482	480	475	473	481	479	483
29	477	474	473	474	477	484	491	492	491	493	491	490	496	497	497	493	478	467	472	472	478	482	474	482	483
30 D	481	481	484	496	488	485	483	492	511	506	493	494	491	491	498	498	495	483	474	464	456	463	464	472	485
31 Q	468	468	470	474	477	479	478	480	478	479	480	482	482	484	488	492	486	478	473	476	472	465	468	473	477
MEAN	478	473	472	471	472	472	476	476	477	479	481	477	480	482	478	476	468	462	456	456	459	464	468	473	472

RECORD OF OBSERVATIONS AT VICTORIA MAGNETIC OBSERVATORY 1971

DECLINATION

MEAN VALUES FOR PERIODS OF SIXTY MINUTES, UNIVERSAL TIME

TABLE 14 VICTORIA		D = 22 DEG 00.0 MIN EAST +																				MAY		1971		MEAN
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		
	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	19.1	19.3	20.6	22.4	21.0	20.9	21.3	20.7	20.4	20.9	21.0	21.6	21.9	22.9	23.3	23.7	25.2	24.8	23.1	21.4	17.5	18.2	18.5	17.0	21.1	
2	17.5	20.2	18.1	17.2	21.6	27.8	28.3	30.4	22.8	21.8	21.0	21.9	23.3	23.2	23.8	24.6	24.8	24.4	23.6	22.7	22.3	20.7	19.9	20.0	22.6	
3	23.8	21.1	21.4	21.6	23.9	22.0	23.5	21.4	21.6	22.0	22.2	22.9	24.3	24.6	26.0	26.3	26.8	25.4	23.9	23.0	20.4	18.9	18.0	17.3	22.5	
4	17.7	18.0	21.0	23.6	20.0	20.4	20.2	21.2	22.1	23.1	22.1	22.4	23.4	24.7	26.2	27.2	27.2	26.2	24.1	19.4	16.9	16.2	16.7	18.3	21.6	
5	19.7	19.9	21.4	21.8	22.1	20.8	20.6	21.0	21.5	22.0	21.8	23.2	24.3	25.5	26.8	27.1	27.6	26.9	25.2	21.6	17.8	17.5	17.7	17.9	22.2	
6 D	18.8	19.2	23.1	22.4	19.8	22.0	25.2	26.7	34.1	32.9	28.9	26.8	27.3	28.1	27.7	26.7	26.3	20.4	17.8	16.4	16.8	17.1	15.6	17.8	23.2	
7 D	16.2	21.4	23.9	23.8	32.2	25.8	21.1	21.3	24.0	23.0	19.3	22.6	20.5	20.4	23.3	24.9	28.7	28.2	25.2	21.8	19.9	19.0	18.4	18.4	22.6	
8	18.9	19.4	20.3	21.3	23.4	21.3	24.8	24.6	17.8	17.9	22.7	20.0	21.7	23.9	24.7	27.7	27.9	27.8	25.3	22.4	19.7	18.2	16.8	17.2	21.9	
9	18.8	19.0	21.5	23.9	23.1	23.0	22.6	22.3	24.8	23.8	24.9	23.6	22.5	25.6	27.6	28.6	28.5	29.2	26.7	23.7	19.9	17.6	15.6	14.7	23.0	
10	14.8	17.3	21.5	25.4	22.5	23.7	26.2	22.7	19.8	19.6	20.4	21.5	22.1	23.6	22.6	24.3	24.1	25.7	25.4	22.7	19.8	18.7	17.5	17.3	21.6	
11	17.2	19.9	21.2	21.6	23.6	23.0	22.0	20.9	22.1	21.5	21.6	22.5	21.8	23.1	24.3	25.7	26.0	27.4	27.0	25.3	23.0	19.9	18.8	17.9	22.4	
12 Q	18.3	18.3	18.5	19.6	19.8	20.3	21.8	21.7	21.5	21.8	22.5	22.9	23.6	24.3	25.2	26.6	26.1	25.8	25.0	20.9	18.3	17.3	16.0	16.4	21.4	
13 Q	17.7	19.7	20.8	21.4	22.3	21.8	21.1	20.7	20.7	21.2	21.9	22.6	22.9	24.1	25.5	28.2	28.3	28.1	25.4	21.5	19.3	18.0	17.2	17.5	22.0	
14	15.0	16.1	17.6	23.5	20.1	20.9	20.7	21.8	21.2	22.3	27.0	24.8	23.0	23.5	26.0	29.3	31.8	27.5	23.1	19.2	16.6	15.8	14.5	15.4	21.6	
15	14.1	19.3	16.8	17.2	19.3	20.5	22.2	24.7	20.8	20.0	19.9	20.2	23.2	24.2	25.2	25.8	25.0	22.7	20.0	17.3	14.9	13.8	13.4	15.4	19.8	
16	18.1	19.1	20.1	20.5	20.6	20.7	21.1	21.9	21.8	22.3	22.3	22.6	23.0	24.3	25.3	27.1	28.0	26.0	23.3	19.6	19.4	18.4	16.1	15.0	21.5	
17 D	13.4	14.6	14.2	19.1	19.0	19.1	32.7	24.5	23.5	22.9	14.0	28.3	35.5	27.9	22.1	28.6	30.8	23.3	22.4	18.7	14.8	15.7	17.0	19.6	21.7	
18 D	17.4	21.4	21.8	40.1	28.2	28.0	28.6	23.3	29.7	24.1	23.4	24.1	28.1	28.4	21.9	24.4	24.6	22.6	20.5	20.3	21.0	20.5	19.0	19.0	24.2	
19	20.3	21.0	21.6	21.6	21.4	21.9	28.8	22.7	23.8	23.9	21.7	22.0	21.8	25.1	26.7	27.7	28.6	27.8	24.4	22.4	21.3	21.2	19.7	19.6	23.2	
20	20.7	20.9	21.5	22.0	21.3	21.2	21.2	21.0	21.7	21.9	20.2	18.9	23.2	25.6	27.1	28.0	26.5	23.6	21.3	19.4	18.0	18.0	18.0	18.1	21.6	
21	18.9	20.1	20.1	20.2	20.8	20.9	20.9	21.1	21.6	22.3	21.8	22.1	24.1	27.3	27.8	28.5	27.0	23.5	20.8	19.5	19.3	19.7	19.3	18.8	21.9	
22	19.5	20.7	21.3	21.5	21.5	20.7	20.3	21.8	22.4	21.6	21.9	22.7	23.9	24.5	25.3	26.3	26.8	25.2	20.8	18.3	16.1	15.8	17.2	18.6	21.4	
23	17.6	18.8	20.5	19.7	19.8	21.4	24.7	20.7	20.8	20.9	22.1	23.7	24.2	25.0	26.5	28.2	28.0	26.1	23.7	21.8	19.9	16.9	17.8	17.8	21.9	
24	17.6	18.1	18.4	19.2	20.3	19.2	19.1	20.0	21.2	22.0	22.5	23.4	24.2	26.7	27.7	27.4	26.5	25.6	23.3	19.9	19.1	16.3	15.0	14.9	21.1	
25	18.3	20.7	21.5	23.4	23.1	21.8	21.7	21.8	21.3	20.9	20.0	21.9	23.4	25.6	27.1	28.3	26.6	23.7	21.5	19.1	18.0	17.2	16.7	16.0	21.6	
26	19.0	18.4	19.3	20.5	21.3	21.2	20.0	22.4	21.5	22.2	22.3	22.5	22.3	25.1	25.7	27.6	27.3	24.8	22.1	19.9	18.9	18.6	17.4	17.7	21.6	
27 Q	18.4	19.3	20.8	21.3	21.1	21.2	21.4	21.6	21.6	22.3	21.7	22.2	22.8	24.3	26.1	27.5	28.3	28.3	25.7	22.0	20.6	19.7	18.7	18.2	22.3	
28 Q	18.4	19.6	20.1	21.1	21.4	21.2	20.9	21.5	21.6	21.5	21.7	22.1	23.1	24.7	26.4	27.0	26.0	26.1	24.8	23.3	20.7	19.9	18.0	16.5	22.0	
29	18.2	18.1	19.4	20.1	20.7	20.3	19.7	19.9	20.3	20.9	22.0	22.7	23.8	25.3	26.0	28.0	28.1	27.6	25.5	21.3	19.2	17.4	14.6	14.3	21.4	
30 D	16.9	18.9	20.0	22.2	21.1	22.6	24.0	23.2	25.0	27.3	29.9	26.5	23.0	25.4	31.0	31.1	31.3	30.9	27.5	24.1	22.3	19.6	17.4	17.1	24.1	
31 Q	18.4	19.9	20.7	21.7	21.8	21.6	22.5	22.6	20.9	21.7	20.9	21.4	22.3	23.4	24.6	25.7	27.2	27.8	25.8	22.7	19.5	17.9	16.4	16.6	21.8	
MEAN	18.0	19.3	20.3	22.0	21.9	21.8	22.9	22.3	22.4	22.3	22.1	22.8	23.7	24.8	25.7	27.0	27.3	25.9	23.7	21.0	19.1	18.1	17.2	17.3	22.0	

MEAN VALUES FOR PERIODS OF SIXTY MINUTES, UNIVERSAL TIME

TABLE 15 VICTORIA

Z = 53,000 GAMMA +

MAY 1971

-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	99	105	103	106	104	102	103	102	102	103	103	103	103	102	103	105	103	90	87	93	98	103	107	101	
2	119	131	139	153	152	135	110	90	76	105	110	111	113	116	116	114	114	114	109	106	103	106	112	115	115	
3	117	115	113	113	112	109	112	111	108	109	107	107	107	108	107	109	105	101	92	87	86	85	87	102	105	
4	117	126	134	128	118	112	111	109	108	107	107	107	108	108	107	106	102	98	92	84	92	96	94	98	107	
5	106	107	114	112	110	109	107	106	106	105	100	100	104	107	104	104	99	96	90	88	90	94	93	99	102	
6 D	108	111	124	122	117	115	110	98	53	45	42	94	103	102	86	80	79	66	65	78	97	107	115	135	94	
7 D	137	162	165	142	127	122	106	70	97	91	53	71	82	78	88	85	97	105	110	111	113	122	124	127	108	
8	122	120	121	121	120	118	115	98	85	71	87	87	97	103	100	102	104	98	93	97	97	100	102	114	103	
9	123	124	128	134	125	113	108	105	100	82	75	88	94	98	102	110	113	110	100	98	102	101	103	109	106	
10	120	125	132	136	123	120	112	101	105	106	102	103	103	103	100	98	85	99	99	102	112	119	118	118	110	
11	118	121	122	123	119	119	118	118	112	112	109	111	110	106	108	106	104	101	98	100	95	96	96	101	109	
12 Q	104	108	117	113	110	108	110	111	108	110	109	106	107	105	105	104	104	98	90	85	87	94	101	111	104	
13 Q	122	125	123	122	119	117	116	111	110	111	108	108	107	105	107	108	97	98	90	87	89	96	97	100	107	
14	107	114	120	130	115	113	109	110	110	108	98	97	100	94	99	102	98	99	90	93	94	105	108	113	105	
15	128	153	144	139	140	146	138	133	122	115	110	108	105	104	99	98	91	84	83	86	94	104	108	108	114	
16	110	111	109	107	105	105	105	107	105	107	107	106	107	106	102	97	91	91	88	93	96	94	97	111	102	
17 D	124	147	155	149	141	132	103	76	110	111	26	-34	43	87	36	-3	45	59	65	80	97	111	127	152	89	
18 D	187	207	210	190	125	154	85	76	93	82	74	19	63	60	32	50	79	87	107	117	122	131	138	141	110	
19	144	144	146	134	127	123	123	116	114	102	104	119	119	124	122	114	110	113	108	105	109	114	121	129	120	
20	134	127	125	122	120	119	118	114	113	111	106	89	101	110	110	109	107	102	103	100	103	109	109	111	111	
21	124	118	116	113	112	113	113	112	109	111	111	108	98	107	110	109	106	98	87	88	90	99	104	104	107	
22	113	114	115	116	114	114	110	110	108	107	109	109	109	110	111	112	103	93	81	83	86	92	101	112	106	
23	126	132	121	116	114	113	113	112	113	115	111	107	111	115	114	113	109	100	94	90	90	97	106	108	110	
24	118	115	118	115	114	112	111	113	108	108	108	105	106	105	107	98	100	94	86	85	86	95	101	109	105	
25	114	114	113	113	112	110	110	114	111	104	98	95	97	103	101	102	98	91	85	83	84	95	97	105	102	
26	117	117	123	119	119	119	101	103	106	109	109	109	107	105	105	104	103	96	88	84	92	98	102	113	106	
27 Q	115	115	112	111	107	107	107	109	108	107	107	108	108	109	110	107	98	94	89	87	91	95	102	107	105	
28 Q	112	109	107	107	106	104	106	105	105	106	103	106	107	105	101	100	91	80	75	73	73	75	83	95	97	
29	111	115	117	113	109	109	108	108	105	107	108	109	110	112	112	108	102	94	83	78	85	87	83	90	103	
30 D	98	107	111	112	110	105	109	108	108	106	84	76	97	104	81	88	94	91	85	81	76	81	90	98	100	96
31 Q	108	113	117	112	110	108	108	105	105	106	109	107	109	113	111	111	109	103	97	92	92	90	94	100	105	
MEAN	119	124	126	124	118	116	110	105	104	102	96	95	101	103	100	99	98	95	91	90	94	100	104	111	105	

RECORD OF OBSERVATIONS AT VICTORIA MAGNETIC OBSERVATORY 1971

HORIZONTAL INTENSITY

MEAN VALUES FOR PERIODS OF SIXTY MINUTES, UNIVERSAL TIME

TABLE 16 VICTORIA

H = 18,500 GAMMA +

JUNE

1971

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	479	478	482	484	487	490	493	496	486	449	446	462	471	471	466	461	479	455	448	453	445	427	437	457	467
2 D	477	466	474	469	475	480	478	469	470	452	456	460	468	469	456	447	457	460	450	435	422	438	455	484	461
3 D	481	490	458	477	462	464	464	469	463	467	474	474	462	469	474	465	448	447	436	431	453	454	466	471	463
4	473	479	478	479	480	485	480	465	479	480	476	478	477	475	473	470	454	449	455	465	464	466	464	457	471
5	459	468	471	462	474	477	476	482	479	479	478	477	479	474	470	464	459	460	464	470	471	462	458	473	470
6	474	470	472	476	473	473	482	486	485	480	476	479	478	479	471	458	454	447	446	448	446	448	453	459	467
7 Q	469	473	475	477	477	474	478	481	482	483	484	485	487	491	494	490	482	470	462	462	458	458	457	461	475
8	479	475	478	468	481	473	467	473	473	473	473	477	482	489	491	495	488	466	452	450	452	464	464	472	473
9 Q	471	476	479	477	479	481	479	477	478	479	481	476	482	478	478	485	483	483	472	463	455	459	466	474	475
10	479	482	486	484	486	486	489	489	494	493	488	492	496	499	495	486	491	491	480	464	463	459	468	478	484
11	484	486	490	490	488	493	480	469	474	483	480	477	483	484	482	476	461	456	454	454	449	454	458	470	474
12 Q	478	485	489	484	485	485	478	476	484	489	495	488	491	491	490	494	491	484	471	470	469	466	468	470	482
13	476	482	477	482	483	483	483	485	483	483	489	490	491	492	485	496	506	491	481	468	456	452	448	455	480
14	469	482	488	486	477	460	466	465	470	480	479	476	477	481	474	469	465	462	459	459	463	465	469	472	471
15	473	470	467	475	480	483	482	486	484	485	483	484	490	490	485	481	483	481	475	469	472	478	472	477	479
16	474	480	475	482	481	484	486	487	493	500	500	496	494	497	497	498	494	493	497	494	489	489	480	471	489
17	475	474	483	488	482	474	480	473	478	490	485	483	486	491	483	479	480	479	473	467	462	465	470	480	478
18	490	487	479	477	479	480	474	486	484	486	486	488	495	494	492	482	477	465	457	449	454	469	478	488	479
19 Q	488	479	479	479	482	481	483	484	486	486	486	487	491	490	492	486	480	469	465	465	468	473	481	484	481
20 Q	486	483	484	481	484	484	484	483	481	491	488	491	494	501	498	496	492	489	486	473	476	490	498	501	488
21	496	495	490	491	487	491	492	491	491	492	495	497	498	497	496	487	478	470	458	464	469	473	479	485	486
22	496	489	490	482	484	485	485	486	488	492	494	495	501	500	503	497	480	469	465	467	468	474	477	488	486
23	490	487	498	488	496	489	487	473	487	490	480	473	485	502	508	505	496	487	477	469	465	467	476	488	486
24	491	491	491	486	484	481	489	486	488	492	489	494	497	496	497	497	493	488	478	462	463	474	476	482	486
25 D	480	480	477	464	461	458	451	457	466	458	449	440	448	452	463	438	434	477	487	483	470	476	483	478	464
26	489	484	479	470	466	476	472	461	471	468	471	481	482	479	483	480	476	463	450	447	452	462	470	472	471
27	473	470	476	480	478	482	480	477	477	477	481	482	479	486	492	492	491	481	477	471	463	456	458	463	477
28	475	482	485	488	487	491	493	491	493	492	496	496	497	492	505	500	501	495	480	463	450	457	471	488	486
29 D	482	486	477	488	466	467	487	486	490	489	494	500	486	478	488	471	443	431	440	457	450	445	466	485	473
30	470	456	465	453	467	469	471	474	480	476	479	475	470	462	472	473	459	446	449	447	457	454	456	478	465
MEAN	479	480	480	479	479	479	480	479	481	481	481	482	484	485	485	481	476	470	465	461	460	462	467	475	476

MEAN VALUES FOR PERIODS OF SIXTY MINUTES, UNIVERSAL TIME

TABLE 17 VICTORIA

D = 22 DEG 00.0 MIN EAST +

JUNE 1971

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	
JAY																									
1 D	17.7	19.2	20.2	20.7	21.1	20.6	20.9	21.1	28.2	29.0	30.5	33.6	27.1	26.7	30.1	30.6	27.1	30.9	23.3	21.2	18.8	16.1	15.5	15.4	23.6
2 D	15.1	18.6	19.1	19.9	21.9	21.6	24.2	22.5	22.2	20.4	25.8	19.8	19.4	27.0	26.9	25.7	26.6	27.0	23.6	24.3	23.1	20.2	17.7	18.4	22.1
3 D	15.9	19.0	25.6	25.0	22.9	22.3	22.4	18.7	23.2	22.8	21.4	22.5	20.4	22.0	28.0	30.6	32.3	29.4	26.9	21.0	18.9	18.2	19.0	19.3	22.9
4	19.8	20.2	19.9	19.8	21.9	22.0	23.0	22.8	18.5	21.7	21.6	23.0	23.6	24.1	26.1	28.5	28.7	26.4	22.9	20.7	19.3	18.5	17.2	16.8	22.0
5	18.0	18.1	19.9	20.8	20.1	20.9	20.3	21.0	20.4	20.8	21.4	22.6	23.3	23.7	25.9	28.8	28.1	26.0	22.8	21.0	19.1	17.4	16.3	16.6	21.4
6	17.6	18.5	19.2	22.4	22.4	19.8	19.6	20.0	21.5	20.1	19.7	21.8	22.5	24.0	25.1	28.0	27.7	26.8	23.6	21.5	20.1	17.4	15.3	15.2	21.2
7 Q	17.7	18.9	20.0	20.8	20.7	21.7	21.2	21.1	21.4	21.4	21.9	22.1	23.5	24.7	25.9	27.7	28.1	27.5	25.0	21.9	19.5	16.9	15.4	14.6	21.6
8	16.6	18.5	19.9	19.8	24.2	25.2	22.3	21.4	22.5	23.2	21.8	21.9	22.4	23.4	24.1	26.9	28.4	29.7	26.2	22.1	18.8	17.8	15.6	15.0	22.0
9 Q	16.6	18.8	19.8	20.7	20.8	21.5	22.8	22.1	20.8	21.1	21.5	21.0	21.8	22.6	24.3	25.3	24.2	26.5	26.9	23.7	20.4	17.9	15.9	16.0	21.4
10	16.9	18.2	20.2	20.7	20.6	21.3	21.0	20.7	20.6	20.7	23.3	21.7	22.0	25.4	27.0	28.5	27.4	26.8	26.1	25.0	22.3	19.4	16.8	16.4	22.0
11	17.3	17.6	18.3	19.6	20.0	23.8	22.3	22.6	22.4	21.8	24.5	24.0	24.2	26.0	27.1	27.6	28.7	27.6	24.2	22.2	20.8	20.1	19.0	18.7	22.5
12 Q	18.1	17.9	18.3	19.9	20.3	20.4	20.7	21.6	20.5	21.3	22.5	22.2	23.7	25.0	25.6	27.3	27.5	28.3	26.2	23.7	20.9	18.3	17.3	17.7	21.9
13	17.8	18.5	19.4	20.1	20.2	20.6	20.5	21.5	22.0	21.3	21.1	22.1	23.0	23.4	21.1	21.9	22.6	22.0	21.4	19.6	17.1	16.9	17.1	17.8	20.4
14	18.0	18.3	19.5	20.1	20.7	22.3	21.3	21.5	21.7	22.3	25.3	25.0	24.3	24.0	26.7	26.6	24.8	23.1	22.7	21.9	20.6	20.1	20.2	19.6	22.1
15	19.0	18.4	18.6	19.7	20.3	20.6	20.4	20.4	23.1	23.5	22.6	22.4	23.3	24.4	25.6	26.8	27.0	26.3	23.6	22.0	19.7	18.3	17.6	16.4	21.7
16	16.9	17.4	18.6	20.2	22.1	21.4	21.1	21.4	20.3	21.2	22.7	21.9	21.2	20.2	23.6	25.5	26.2	23.7	23.3	21.1	19.2	18.8	18.9	19.1	21.1
17	19.6	19.9	19.7	20.5	21.8	23.0	24.5	24.5	24.7	20.8	20.8	28.0	26.0	24.8	26.5	27.2	26.2	25.2	21.9	19.9	18.8	19.5	18.7	17.7	22.5
18	17.4	18.2	19.5	21.5	21.9	22.2	22.4	26.1	21.7	21.3	21.2	21.6	22.2	24.7	26.4	27.2	27.2	26.0	23.7	21.1	18.8	18.8	18.9	18.0	22.0
19 Q	19.0	19.8	20.5	20.9	21.1	20.8	21.0	21.6	21.3	21.6	21.7	22.3	22.9	23.5	24.0	24.7	25.8	25.5	23.6	20.3	18.0	16.6	15.6	16.3	21.2
20 Q	18.2	20.1	21.0	21.4	21.0	21.5	22.7	23.9	22.1	22.5	21.9	21.5	22.6	23.6	24.9	26.8	27.6	25.8	23.0	20.6	17.7	17.0	17.3	16.8	21.7
21	18.2	19.4	20.6	21.2	20.4	19.8	19.8	21.9	22.7	21.5	21.2	23.2	23.5	24.7	25.5	26.9	26.9	24.6	21.0	17.7	15.7	15.0	15.3	16.7	21.0
22	17.9	19.5	21.1	22.7	20.8	19.9	20.5	21.3	21.1	21.2	21.5	21.5	23.9	25.0	26.7	27.3	26.4	22.8	20.9	18.0	14.8	13.8	14.7	14.5	20.7
23	15.7	16.9	17.8	20.7	20.4	22.1	23.2	23.8	21.0	22.9	26.5	29.8	25.9	26.4	27.3	27.0	28.1	27.9	26.2	23.6	20.2	17.6	16.9	17.2	22.7
24	18.1	19.4	20.4	20.9	21.1	20.6	20.7	21.1	21.4	21.7	22.2	22.5	23.3	24.2	24.9	25.8	26.3	26.4	25.3	23.2	17.2	15.0	14.7	14.3	21.3
25 D	14.7	14.8	15.8	18.7	20.8	23.4	23.8	22.5	22.3	24.5	25.0	27.8	31.8	31.2	31.6	24.9	21.5	24.0	24.2	22.4	19.6	17.4	15.0	13.4	22.1
26	14.8	17.4	19.7	21.6	28.7	26.3	26.2	26.8	22.5	18.5	19.9	22.8	23.4	23.7	25.1	26.3	27.5	26.2	23.6	19.7	17.2	16.2	15.6	15.2	21.9
27	17.0	18.7	20.1	21.7	22.9	23.3	21.9	21.1	20.5	20.7	21.0	20.7	19.8	23.6	24.9	27.4	27.8	27.6	24.7	21.3	19.8	18.0	17.2	16.8	21.6
28	17.4	18.0	19.2	20.6	20.3	20.3	20.3	20.5	21.0	22.4	21.8	21.1	22.1	21.6	27.1	28.1	29.1	27.6	24.0	21.4	19.9	17.9	16.3	15.2	21.4
29 D	17.6	17.7	19.5	19.3	23.5	20.7	20.8	20.7	19.2	19.8	20.7	22.5	20.5	25.7	28.2	29.1	29.7	28.0	20.4	17.5	17.2	12.9	13.5	15.1	20.8
30	17.2	19.9	19.7	20.7	20.4	20.2	20.4	20.6	19.7	21.5	20.1	21.7	21.8	18.3	19.6	24.1	26.4	27.1	24.3	22.8	19.2	16.3	15.2	14.7	20.5
MEAN	17.4	18.5	19.7	20.8	21.5	21.7	21.7	21.9	21.7	21.8	22.4	23.2	23.2	24.3	25.9	27.0	27.1	26.4	23.8	21.4	19.1	17.5	16.7	16.5	21.7

VERTICAL INTENSITY

MEAN VALUES FOR PERIODS OF SIXTY MINUTES, UNIVERSAL TIME

TABLE 18 VICTORIA

Z = 53,000 GAMMA +

JUNE 1971

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	
JAY																									
1 D	105	107	114	110	106	105	102	105	79	51	24	45	92	87	92	83	81	78	80	84	84	85	96	103	87
2 D	127	131	141	153	143	133	108	101	108	87	72	52	70	77	79	86	89	84	84	86	101	113	120	142	104
3 D	151	173	169	156	137	122	122	72	86	106	111	113	107	92	106	108	106	98	85	85	91	97	107	114	113
4	153	122	116	115	114	108	108	95	81	96	103	105	106	103	104	105	98	94	85	92	97	94	101	109	104
5	112	121	124	120	117	108	109	108	103	104	107	106	105	108	107	107	104	98	87	93	96	98	96	104	106
6	120	122	123	122	118	114	112	98	95	99	101	103	105	104	99	97	98	96	92	83	86	86	92	100	103
7 Q	112	114	112	110	110	108	108	106	106	104	103	107	104	108	104	98	101	97	92	86	82	84	91	100	102
8	114	118	124	120	114	114	112	111	105	101	104	107	107	113	111	115	113	105	87	85	89	99	98	103	107
9 Q	112	114	113	112	109	110	110	108	107	108	106	104	104	104	101	101	100	99	100	101	101	99	101	102	105
10	104	107	109	108	106	104	105	105	105	104	103	102	96	96	95	93	93	93	93	91	88	82	83	88	98
11	97	97	105	107	106	104	100	106	107	101	86	85	94	99	103	106	100	95	92	87	98	97	98	101	99
12 Q	106	109	110	110	108	107	108	110	111	108	97	96	103	105	104	102	97	95	89	89	88	91	89	99	101
13	105	107	105	106	104	104	103	105	104	103	105	106	107	105	93	74	68	61	64	68	76	84	93	104	94
14	108	111	115	119	123	126	123	120	118	114	105	106	102	99	95	97	94	96	90	83	86	90	98	104	105
15	111	113	113	114	109	109	108	108	99	99	105	108	111	110	110	106	104	101	101	100	97	98	97	103	106
16	108	109	106	109	109	107	108	106	106	107	105	107	102	97	89	90	86	85	86	78	76	80	91	106	98
17	113	112	114	114	111	108	108	106	107	109	101	83	94	103	103	106	101	98	91	92	95	95	97	104	103
18	110	113	113	113	111	110	112	104	98	106	106	107	104	104	108	107	108	102	92	86	87	93	98	103	104
19 Q	110	107	107	106	105	105	104	104	104	102	103	105	103	107	108	108	102	93	83	85	85	86	92	100	101
20 Q	107	109	111	107	106	107	106	106	103	100	99	102	107	110	111	111	103	95	93	89	81	84	85	89	101
21	100	107	105	107	105	101	104	103	103	102	102	104	104	105	104	100	96	95	87	86	82	83	88	91	99
22	104	110	113	111	108	102	102	103	101	101	100	100	96	97	99	100	98	94	89	83	81	85	86	89	98
23	100	106	111	111	112	109	108	111	108	106	90	78	79	95	101	103	103	101	87	80	80	82	83	96	98
24	102	105	109	105	103	101	102	101	102	101	102	101	101	99	100	100	97	91	83	78	74	77	88	98	97
25 D	110	125	137	144	150	148	142	131	125	104	79	34	6	-9	4	3	15	51	84	97	97	102	107	118	88
26	139	142	143	134	134	119	109	112	111	85	63	84	94	97	104	105	107	99	85	81	83	86	94	103	105
27	109	113	114	109	108	108	102	103	102	100	99	99	93	97	101	101	100	95	84	83	79	82	90	95	99
28	104	106	107	103	104	98	100	101	100	92	97	100	103	95	93	92	88	87	85	78	75	83	92	107	95
29 D	113	120	120	118	122	118	110	103	105	105	106	104	87	73	85	94	96	89	82	86	92	109	123	127	104
30	130	135	128	113	112	107	106	105	103	98	97	99	100	92	81	89	92	92	84	86	84	84	92	107	101
MEAN	113	116	118	116	114	111	109	105	103	100	96	95	96	96	96	96	95	92	87	86	87	90	96	104	101

HORIZONTAL INTENSITY

MEAN VALUES FOR PERIODS OF SIXTY MINUTES, UNIVERSAL TIME

TABLE 19 VICTORIA

H = 18,500 GAMMA +

JULY 1971

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	501	476	481	495	479	483	479	474	475	479	475	475	475	473	475	483	480	470	459	460	458	459	472	478	476
2 D	479	485	496	465	474	473	481	477	468	477	479	474	466	486	492	480	470	464	456	452	456	466	469	466	473
3	485	468	473	474	478	478	477	482	490	485	485	482	486	485	486	483	477	471	462	467	465	465	471	469	477
4	472	474	468	463	467	469	475	471	476	477	477	480	479	479	475	474	463	453	452	459	463	468	475	484	471
5	487	477	471	472	477	483	485	492	485	485	482	481	483	486	480	475	472	464	451	461	474	478	474	476	477
6	488	477	473	480	486	486	487	488	491	491	494	494	491	490	486	482	483	483	475	467	462	468	480	489	483
7 Q	486	488	486	483	483	486	489	489	494	493	498	496	503	510	513	502	484	471	467	468	474	479	478	483	488
8	493	488	487	484	484	477	474	478	483	477	484	490	488	486	489	484	483	472	469	468	467	476	466	467	480
9	486	463	484	469	475	481	478	478	481	481	483	482	487	489	488	482	476	469	458	455	466	473	484	489	477
10 Q	483	479	482	483	480	479	478	478	477	477	478	482	485	491	491	486	472	461	453	455	460	465	469	476	476
11	480	479	481	478	479	482	485	482	486	487	484	486	488	486	488	486	483	482	472	463	466	474	476	482	481
12	468	476	482	487	488	491	485	487	489	490	492	490	495	505	511	504	495	487	473	471	471	484	491	490	488
13	497	488	491	482	490	493	496	476	473	486	491	492	492	491	490	495	492	490	467	464	475	474	471	476	485
14	482	478	482	479	475	482	479	476	485	494	486	480	490	493	493	488	496	488	478	474	464	462	465	468	481
15	474	473	486	482	486	469	475	479	484	486	477	477	480	491	495	493	487	481	469	459	456	454	464	477	477
16	487	495	485	481	479	481	483	490	493	495	492	488	486	492	497	496	484	469	463	464	456	465	472	477	482
17 Q	484	473	482	481	480	481	483	485	486	486	488	486	486	485	490	487	479	476	472	473	475	473	480	483	481
18	483	482	485	487	481	469	481	489	490	495	495	494	496	499	502	496	480	456	444	452	466	478	486	486	482
19	493	486	491	461	478	482	480	488	487	491	491	494	495	489	487	480	469	468	459	450	451	460	464	475	478
20 Q	483	482	482	483	485	483	484	486	489	486	489	492	494	497	489	475	462	458	449	452	461	470	475	473	478
21 D	475	477	477	484	483	489	494	496	499	499	490	496	487	499	482	451	433	419	425	405	429	445	463	484	470
22	486	489	473	458	458	468	463	466	468	473	470	471	475	477	484	485	479	467	455	457	464	466	473	480	471
23	480	482	479	475	479	479	481	482	489	492	493	492	493	494	512	514	508	484	478	467	462	458	473	479	484
24	465	473	482	481	480	479	481	484	485	486	490	491	497	498	500	493	481	463	454	455	461	469	471	484	479
25 Q	487	486	480	484	484	484	484	488	487	491	489	490	494	489	492	488	483	469	463	462	464	466	467	473	481
26 D	480	483	483	483	484	484	485	484	485	489	488	490	494	501	505	497	489	504	473	481	476	495	476	435	485
27	462	479	472	485	485	484	489	486	488	490	493	493	494	493	494	482	467	455	461	462	462	461	470	473	478
28	481	479	483	474	476	484	481	487	489	488	484	483	483	488	490	491	480	465	457	455	459	461	466	471	477
29	472	478	481	479	482	486	487	487	484	487	486	484	487	493	492	482	475	463	456	459	452	437	450	446	474
30	456	465	470	468	455	459	476	471	478	478	478	478	468	472	483	475	473	465	460	458	463	469	473	477	470
31 D	479	484	481	472	479	482	486	485	484	483	484	484	481	488	485	481	477	467	445	436	445	452	467	476	474
MEAN	481	479	481	478	479	480	482	483	484	486	486	486	487	490	491	486	478	469	460	459	462	467	472	476	479

RECORD OF OBSERVATIONS AT VICTORIA MAGNETIC OBSERVATORY 1971

MEAN VALUES FOR PERIODS OF SIXTY MINUTES, UNIVERSAL TIME

TABLE 20 VICTORIA

D = 22 DEG 00.0 MIN EAST +

JULY 1971

HOUR	TO																								MEAN	
	00 01	01 02	02 03	03 04	04 05	05 06	06 07	07 08	08 09	09 10	10 11	11 12	12 13	13 14	14 15	15 16	16 17	17 18	18 19	19 20	20 21	21 22	22 23	23 24		
JAY																										
1 D	14.3	16.8	18.4	23.5	28.4	23.9	22.3	22.4	21.5	21.5	22.1	22.3	23.4	23.2	24.0	25.7	26.0	26.2	23.8	20.4	17.5	17.9	18.2	17.1	21.7	
2 D	17.8	18.7	24.5	20.9	20.6	23.2	28.3	26.8	24.3	21.5	20.6	21.7	20.9	21.2	25.1	29.0	28.4	27.8	24.2	19.4	15.9	14.5	13.5	15.7	21.9	
3	17.6	19.3	20.3	20.6	20.8	20.7	21.3	20.8	20.8	20.9	20.5	20.3	19.4	21.2	25.2	28.5	29.1	27.1	24.6	21.1	19.1	17.8	16.8	16.5	21.3	
4	17.5	18.9	19.5	19.9	20.7	20.5	21.7	20.7	20.4	20.5	20.6	21.7	22.9	24.8	26.6	27.0	28.2	25.4	22.2	18.3	16.3	14.7	14.7	14.2	20.7	
5	15.2	18.3	20.0	20.2	21.2	20.8	21.9	21.6	20.8	22.1	22.1	21.6	23.6	25.2	26.2	27.7	27.0	26.5	24.2	18.3	16.2	17.1	16.7	17.6	21.3	
6	17.2	19.0	19.1	19.4	19.1	19.6	20.4	19.7	19.5	20.3	20.9	21.9	22.8	23.9	25.4	26.1	26.8	26.0	20.9	18.4	17.0	16.0	17.4	17.1	20.6	
7 Q	18.5	19.0	20.4	21.0	21.0	20.7	20.7	20.8	20.7	21.5	21.8	22.8	23.5	24.5	26.3	28.5	29.8	28.6	24.6	20.8	18.7	17.9	17.8	17.5	22.0	
8	18.4	19.2	20.7	21.2	26.5	21.7	22.5	21.5	21.4	22.1	20.4	22.2	24.9	25.4	27.6	27.7	27.6	27.5	24.8	21.4	18.5	16.0	14.2	15.6	22.0	
9	16.3	19.3	19.7	20.6	20.4	21.6	24.3	20.1	21.2	20.8	21.1	21.5	22.4	23.7	24.5	25.7	25.0	24.1	22.6	18.9	17.3	17.1	17.8	18.6	21.0	
10 Q	19.3	20.4	21.2	21.6	21.5	21.5	21.1	21.4	21.7	21.4	21.6	21.8	22.1	23.0	24.2	26.2	27.1	25.3	22.3	19.0	16.7	16.0	16.3	17.1	21.2	
11	18.5	19.1	19.9	20.1	20.6	19.9	21.5	21.0	20.5	20.8	21.1	23.0	24.3	26.3	26.5	26.6	27.0	26.3	24.8	21.9	17.9	15.7	14.7	14.7	21.4	
12	17.6	19.0	19.6	20.1	20.3	19.9	20.8	20.1	20.4	20.6	20.9	22.2	22.6	23.8	26.0	28.4	28.5	27.8	25.5	20.4	18.3	14.1	14.0	15.4	21.1	
13	17.2	18.2	20.0	20.4	20.5	21.6	24.0	26.0	26.6	21.0	19.6	19.6	23.0	25.4	26.6	27.3	27.2	27.5	26.1	21.5	19.5	19.2	17.6	16.1	22.2	
14	17.2	17.9	19.4	20.1	21.7	21.7	22.6	23.8	20.9	21.4	20.9	25.2	25.7	25.6	25.9	27.6	27.7	27.1	25.1	21.7	19.9	20.0	19.9	19.3	22.4	
15	18.5	19.0	19.8	22.5	29.4	25.0	21.6	21.9	22.1	22.3	22.5	21.1	23.1	25.2	26.8	28.6	30.0	30.3	26.5	23.1	19.8	19.0	17.6	16.3	23.0	
16	17.0	17.8	19.0	20.7	20.4	21.0	20.7	22.2	21.2	21.7	20.8	20.2	22.0	22.1	24.6	27.1	28.4	28.0	23.9	21.2	18.4	16.9	16.2	16.6	21.2	
17 Q	17.5	19.5	20.6	20.5	20.3	20.5	22.1	21.4	21.0	20.8	20.8	21.1	21.9	22.7	25.4	26.8	26.6	26.9	24.5	21.4	18.7	17.1	16.7	16.9	21.3	
18	18.3	19.4	20.5	22.8	23.8	22.4	22.4	20.0	20.0	20.4	20.4	21.2	20.9	24.6	25.5	28.0	28.5	30.4	27.7	23.3	18.9	14.4	13.1	14.1	15.4	21.4
19	15.9	19.3	17.9	18.6	18.5	19.4	19.1	19.3	19.7	19.6	20.5	21.1	22.6	23.4	25.8	27.4	28.3	26.1	22.7	19.1	16.5	14.5	13.3	15.5	20.2	
20 Q	18.5	20.9	22.1	21.8	20.6	20.4	20.2	20.5	20.6	20.8	21.1	20.9	21.8	23.4	24.6	27.4	27.6	26.3	21.7	18.6	16.6	15.5	15.5	17.1	21.0	
21 D	18.8	20.6	20.7	20.4	20.3	19.8	19.7	19.5	21.1	20.3	17.6	21.1	24.5	23.3	27.1	23.3	26.7	25.3	21.5	18.4	14.7	12.8	12.1	12.2	20.1	
22	14.1	18.3	18.4	19.4	17.2	18.0	18.9	19.6	19.9	20.7	21.5	22.3	23.1	24.3	25.6	27.1	27.7	26.9	23.9	20.1	17.5	16.6	16.4	17.3	20.6	
23	19.3	20.5	21.3	21.5	21.1	20.9	21.0	21.1	21.5	21.0	21.9	22.4	24.1	25.3	26.5	29.4	31.3	30.1	24.3	19.2	16.7	15.2	15.3	17.1	22.0	
24	19.7	20.1	20.7	21.6	21.1	20.2	20.5	20.5	20.7	21.0	21.0	21.4	22.8	23.9	27.6	29.1	30.1	28.5	22.8	18.9	15.9	14.5	15.0	16.4	21.4	
25 Q	18.9	19.7	20.0	20.5	20.7	20.5	20.7	20.9	21.2	21.4	21.1	22.1	22.8	23.6	26.1	26.2	26.7	26.7	23.5	20.0	17.5	17.2	18.0	18.1	21.4	
26 D	18.7	19.8	20.7	21.2	21.0	21.1	20.7	21.1	20.8	21.2	21.2	21.7	22.9	24.0	26.1	27.8	29.0	26.8	27.0	18.7	15.1	13.9	14.1	16.9	21.3	
27	16.1	17.1	20.6	20.8	20.1	20.4	20.5	20.5	20.8	20.7	22.0	22.3	23.5	26.4	28.5	29.8	31.4	29.0	23.8	18.7	14.9	15.1	16.5	17.4	21.5	
28	17.6	20.1	19.8	22.0	24.0	21.2	21.2	19.7	20.2	20.5	20.5	21.5	22.7	23.7	25.1	26.4	26.9	26.4	23.9	20.9	18.3	16.6	16.2	17.0	21.3	
29	18.2	19.3	20.8	20.6	21.0	20.8	20.6	21.3	21.2	21.3	20.9	22.0	24.0	23.8	24.6	27.5	29.8	29.2	24.7	20.6	19.6	16.8	15.8	16.2	21.7	
30	17.0	17.7	19.7	19.0	20.4	21.0	22.9	20.7	20.0	20.0	18.7	18.1	24.7	26.2	27.2	29.5	31.6	29.9	26.4	22.3	18.0	15.4	14.7	16.3	21.6	
31 D	18.2	19.2	19.9	19.7	20.4	20.2	20.4	20.7	20.2	20.3	21.6	22.7	22.8	25.9	26.7	28.0	28.1	27.0	24.3	19.1	15.7	15.1	16.0	17.1	21.2	
MEAN	17.6	19.1	20.2	20.7	21.4	21.0	21.4	21.2	21.1	21.0	20.9	21.6	23.1	24.2	26.0	27.5	28.3	27.2	24.0	20.0	17.3	16.1	15.9	16.5	21.4	

VERTICAL INTENSITY

MEAN VALUES FOR PERIODS OF SIXTY MINUTES, UNIVERSAL TIME

TABLE 21 VICTORIA

Z = 53,000 GAMMA +

JULY 1971

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
	T0	T0	T0	T0	T0	T0	T0	T0	T0	T0	T0	T0	T0	T0	T0	T0	T0	T0	T0	T0	T0	T0	T0	T0	
	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	125	124	124	129	116	109	105	102	103	107	106	109	111	105	101	104	105	101	98	91	84	83	94	102	106
2 D	110	126	148	135	124	120	114	97	96	99	100	104	100	97	96	97	95	85	83	71	69	77	87	95	101
3	111	108	112	109	105	106	103	104	98	92	99	97	93	89	90	94	93	91	86	83	84	87	95	112	98
4	129	135	136	126	120	117	114	111	108	105	105	105	106	105	101	93	87	80	82	79	77	81	98	104	
5	112	118	123	117	115	108	105	104	100	99	95	96	103	106	106	107	100	94	89	85	78	87	94	99	102
6	113	115	113	109	105	106	105	106	104	102	100	100	100	101	101	94	82	70	63	74	83	82	85	93	96
7 Q	92	97	101	100	98	100	98	98	97	99	96	99	100	103	105	104	103	94	85	86	92	95	97	99	97
8	115	118	115	116	116	108	111	113	110	104	102	96	98	100	99	99	96	87	81	82	74	78	90	103	100
9	115	109	120	107	105	109	108	106	106	104	102	104	104	105	106	100	96	91	90	86	86	89	95	100	102
10 Q	106	109	105	100	100	99	98	100	99	99	98	98	98	101	102	102	100	95	77	69	74	79	86	96	95
11	102	103	106	102	102	101	101	101	100	99	99	97	100	95	94	92	90	80	73	65	69	75	82	91	92
12	97	99	102	101	100	98	98	97	97	98	99	98	96	99	97	93	85	83	74	75	76	83	90	97	93
13	110	105	108	102	103	100	97	97	102	97	95	90	96	102	102	101	89	84	74	74	84	84	86	95	95
14	102	98	102	104	103	101	101	102	101	94	76	75	83	88	88	90	86	80	75	81	86	85	89	94	91
15	103	106	107	116	110	104	104	105	103	96	90	89	96	99	106	105	102	92	84	82	85	93	96	102	99
16	111	114	108	104	100	100	100	98	94	88	85	85	86	93	94	95	87	86	79	67	72	82	88	90	92
17 Q	104	109	109	103	98	97	98	96	97	97	94	97	97	100	101	100	98	87	80	80	87	87	85	92	96
18	103	108	105	105	105	105	105	102	100	100	97	99	102	99	103	101	97	82	70	61	62	72	87	98	95
19	113	115	121	106	99	103	100	100	97	99	97	98	99	100	101	100	92	92	87	78	75	77	86	96	97
20 Q	105	111	107	103	99	98	98	97	96	96	96	97	98	101	98	96	80	70	67	72	79	82	89	97	93
21 D	110	112	112	108	101	103	103	103	102	99	92	89	92	94	76	60	56	56	68	70	88	112	137	146	95
22	153	165	156	145	136	132	122	117	115	113	112	112	112	115	117	118	117	110	103	99	99	99	108	119	121
23	123	118	112	111	108	106	106	108	107	104	105	103	103	101	106	103	98	88	86	80	74	79	85	100	101
24	111	112	111	107	100	102	102	104	105	103	101	103	105	105	102	103	93	85	81	87	93	92	89	95	100
25 Q	100	98	98	99	98	98	98	101	99	100	100	99	99	100	102	100	98	90	82	78	84	85	87	89	95
26 D	99	101	104	99	97	96	97	95	97	98	97	96	96	99	102	102	98	86	69	63	71	78	79	79	92
27	92	103	107	106	100	98	97	98	97	100	95	97	96	90	96	92	89	83	78	72	67	73	81	88	91
28	104	108	110	111	110	99	102	97	88	89	94	97	99	103	105	106	107	102	94	88	85	90	96	99	99
29	106	106	105	100	101	98	98	97	96	98	95	93	96	100	98	98	90	90	85	78	78	77	93	107	95
30	126	125	126	125	133	130	124	110	109	105	103	79	69	74	90	99	100	94	82	73	77	77	82	92	100
31 D	104	110	112	109	110	108	103	103	101	101	98	87	78	85	93	96	99	93	81	79	89	92	94	103	97
MEAN	110	112	114	110	107	105	104	102	101	99	98	96	97	99	99	98	94	87	81	78	80	84	91	99	98

RECORD OF OBSERVATIONS AT VICTORIA MAGNETIC OBSERVATORY 1971

HORIZONTAL INTENSITY

MEAN VALUES FOR PERIODS OF SIXTY MINUTES, UNIVERSAL TIME

TABLE 22 VICTORIA

H = 18,500 GAMMA ±

AUGUST

1971

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	
JAY																									
1	477	479	472	480	480	483	484	489	487	485	483	487	486	490	489	494	491	483	477	467	457	469	484	497	482
2 D	488	496	504	467	458	471	472	467	431	471	473	465	464	468	480	482	474	460	456	456	454	459	466	478	469
3 Q	479	483	479	479	475	478	483	483	482	484	486	487	487	488	492	483	465	458	454	456	459	469	470	475	476
4	478	482	476	480	474	467	471	476	483	486	484	486	475	485	488	482	472	458	445	435	460	476	482	499	475
5	561	480	479	462	437	449	472	459	466	466	466	468	471	477	484	481	468	452	443	444	455	466	468	483	469
6 Q	540	476	474	475	479	480	481	481	483	483	485	487	488	489	487	478	468	459	453	450	456	468	472	478	478
7	485	480	482	484	483	485	487	486	490	498	494	495	493	495	492	487	480	471	468	467	474	481	489	493	485
8	487	480	465	457	463	464	463	468	470	468	477	470	481	480	472	477	474	466	457	457	456	449	457	475	468
9	486	479	480	481	479	472	477	484	485	485	482	491	487	495	496	485	464	450	451	469	473	475	482	476	479
10	483	482	477	462	457	456	476	481	484	489	485	485	489	488	489	484	469	466	465	464	464	457	468	470	475
11 D	478	464	466	456	454	457	475	483	487	494	492	470	483	494	487	491	476	463	456	458	456	463	470	472	473
12	475	471	478	487	488	487	495	482	462	477	491	493	476	471	488	484	474	467	463	462	457	458	467	477	476
13	471	479	478	478	483	479	489	486	490	489	490	486	488	488	491	491	492	486	479	483	481	481	480	472	484
14 Q	469	477	481	480	486	487	489	489	491	491	491	489	491	496	498	493	482	462	453	458	465	470	473	480	481
15	486	490	486	485	484	486	486	487	488	492	501	496	499	498	504	496	484	466	467	470	465	466	465	474	484
16	490	498	491	484	472	490	493	494	493	496	497	497	496	492	491	493	487	478	468	460	463	471	474	480	485
17	486	487	489	487	491	492	495	494	501	507	498	499	491	491	492	486	470	461	458	462	466	477	494	466	485
18 D	489	478	481	466	490	490	492	490	491	488	490	490	487	490	488	484	469	451	446	453	456	464	475	476	478
19	479	476	474	483	482	478	477	479	482	486	486	483	486	487	489	479	468	455	452	455	464	473	484	488	477
20 Q	491	488	484	487	488	486	488	490	489	493	495	496	496	501	493	484	470	456	460	463	465	472	481	488	484
21	498	497	487	483	476	465	469	474	475	477	478	479	483	492	492	490	485	473	455	441	440	453	463	466	475
22	471	466	473	483	476	468	468	475	469	484	482	490	487	489	490	486	476	466	453	450	458	465	477	484	474
23 D	475	453	477	481	492	485	488	489	487	480	485	488	482	483	486	477	460	443	431	441	450	457	466	471	472
24	478	480	478	481	485	486	483	484	487	487	488	483	486	488	484	480	471	454	451	460	462	464	463	474	477
25	485	475	485	486	484	486	486	487	490	488	493	493	493	495	488	473	462	453	442	446	459	464	466	473	477
26	461	468	475	477	480	478	463	463	463	470	472	462	476	479	485	476	466	459	451	441	435	444	453	472	465
27 Q	481	481	482	483	483	485	483	481	483	485	485	487	485	491	486	478	464	449	436	434	443	458	476	477	474
28	485	488	488	489	490	488	491	491	501	499	503	503	502	509	494	482	478	477	465	460	462	473	478	480	487
29	480	476	486	486	488	486	488	490	493	492	489	492	492	492	489	474	462	451	449	458	467	468	479	486	480
30	476	481	488	485	484	485	484	483	487	487	488	488	490	485	484	475	471	465	457	465	473	476	484	503	481
31 D	515	486	464	462	467	469	465	469	490	493	486	484	484	486	482	467	467	468	480	467	459	454	477	487	476
MEAN	487	480	480	478	478	478	481	482	483	486	487	486	486	489	489	483	473	462	456	457	460	466	474	480	477

MEAN VALUES FOR PERIODS OF SIXTY MINUTES, UNIVERSAL TIME

TABLE 23 VICTORIA

D = 22 DEG 00.0 MIN EAST +

AUGUST

1971

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	19.6	19.7	20.6	20.5	21.5	21.2	20.5	21.0	20.9	21.0	20.9	22.1	21.6	24.5	27.2	28.8	27.5	26.9	24.4	21.6	19.4	17.7	15.4	14.7	21.6
2 D	16.4	16.8	19.1	27.0	20.7	20.0	28.3	27.4	23.1	25.6	22.2	23.5	22.2	20.4	26.0	28.9	29.5	27.5	24.2	21.6	19.4	19.6	19.5	18.4	22.8
3 Q	18.9	21.1	20.6	20.5	20.2	20.3	20.6	20.5	20.8	21.3	21.6	22.2	22.8	22.9	24.9	26.9	27.9	26.4	23.0	18.6	16.7	15.9	16.5	17.1	21.2
4	17.9	18.7	20.2	19.5	22.7	21.7	20.5	20.4	20.2	20.4	20.6	22.5	23.2	23.1	25.2	26.8	28.0	26.7	23.1	17.8	15.9	15.1	14.6	14.5	20.8
5	16.1	17.7	18.9	22.0	23.6	24.8	23.3	22.9	19.9	20.6	21.5	23.0	23.5	25.3	26.2	27.1	29.1	27.3	22.8	17.8	15.9	14.6	14.8	16.9	21.5
6 Q	19.6	21.4	21.6	21.4	20.9	20.8	20.8	20.8	21.0	21.3	21.9	22.6	23.3	24.2	26.1	27.7	28.6	28.3	23.8	20.1	17.3	15.0	15.3	17.0	21.7
7	19.3	19.6	20.3	20.2	20.5	20.4	20.3	20.5	20.7	21.1	22.0	23.1	23.2	24.2	25.2	26.8	28.2	27.5	24.3	19.4	15.3	12.6	12.0	13.0	20.8
8	13.9	12.4	13.5	14.8	21.0	27.2	22.3	20.8	25.2	24.0	26.8	24.4	21.9	21.1	19.6	24.3	26.8	25.7	21.4	18.9	18.8	17.8	15.9	17.4	20.7
9	19.5	20.4	21.3	20.5	21.4	21.7	20.3	21.6	23.7	22.2	20.5	21.7	24.1	25.0	26.2	27.0	27.9	24.5	19.3	15.3	14.0	14.7	16.5	16.8	21.1
10	19.0	19.9	21.4	25.4	22.8	23.4	24.7	20.5	20.0	19.7	20.5	20.8	22.0	22.4	23.9	27.5	26.6	25.3	20.3	17.7	18.1	17.2	16.8	17.4	21.4
11 D	20.2	20.4	23.4	31.7	29.4	23.3	22.0	20.6	20.0	23.1	23.1	26.1	23.1	24.7	28.5	28.9	28.8	27.6	23.4	21.9	18.6	17.0	16.3	17.1	23.3
12	18.9	19.7	20.1	19.4	20.7	24.3	27.6	25.7	26.5	21.3	20.1	20.2	19.2	18.2	25.5	28.9	30.4	27.6	24.1	20.4	17.7	14.6	14.6	15.1	21.7
13	17.3	19.0	20.2	22.8	24.5	22.4	22.3	22.1	20.1	19.7	21.8	21.7	22.5	22.6	23.7	24.7	28.0	27.4	23.0	20.4	18.2	18.1	17.2	18.1	21.6
14 Q	18.9	19.5	20.0	21.2	21.9	22.5	20.8	20.6	20.9	20.9	21.0	20.0	21.9	22.9	24.7	26.5	27.9	27.4	24.4	20.9	18.5	17.7	18.0	18.7	21.6
15	19.8	20.3	21.2	21.2	21.5	21.1	20.9	21.1	21.6	19.8	21.7	21.9	22.1	23.9	27.8	28.9	28.1	26.2	21.1	18.2	17.0	16.6	17.4	18.3	21.6
16	19.1	18.5	18.9	20.1	19.9	19.1	19.3	19.3	19.9	19.4	15.4	19.8	21.6	23.6	24.9	26.1	28.0	27.1	24.0	18.6	15.5	15.1	16.2	18.0	20.3
17	20.0	19.9	19.5	19.2	19.6	19.3	20.1	20.3	21.1	20.9	21.5	22.5	22.9	26.0	29.7	31.5	31.0	27.9	22.4	18.9	16.7	17.3	15.8	15.8	21.7
18 D	13.7	16.4	15.2	16.2	18.5	16.3	17.4	18.0	19.4	20.5	21.7	22.8	23.6	24.2	26.5	28.8	29.9	27.8	22.9	17.7	16.3	16.1	16.3	17.5	20.2
19	19.7	22.3	20.3	19.4	19.9	21.2	21.7	20.1	19.4	20.2	20.8	21.8	22.8	24.6	26.0	26.8	27.1	24.9	21.2	18.0	16.1	15.0	15.9	18.4	21.0
20 Q	20.7	21.2	21.2	20.7	20.2	20.3	20.0	20.1	20.1	20.9	21.3	21.8	23.0	23.4	24.9	27.0	28.8	26.2	20.7	16.5	15.8	15.4	15.8	17.9	21.0
21	19.9	20.7	20.6	20.9	20.5	24.3	22.2	22.9	22.1	22.6	25.4	26.2	23.7	25.5	28.9	29.2	30.0	26.2	23.2	19.1	16.9	14.8	14.3	15.5	22.3
22	15.9	18.7	20.8	21.0	21.5	22.8	23.4	22.5	20.9	23.7	22.4	22.2	23.2	22.8	22.1	23.8	26.8	25.6	21.7	18.5	16.1	14.3	14.2	14.7	20.8
23 D	13.8	15.7	18.0	17.7	17.8	20.7	21.6	23.2	23.5	22.9	22.2	22.1	21.2	22.8	26.8	28.1	29.4	27.6	21.6	17.7	16.3	15.3	14.4	15.8	20.7
24	18.6	20.0	21.6	21.7	21.8	20.4	22.1	20.5	20.2	20.5	21.0	23.2	22.9	24.3	26.5	27.6	27.5	26.7	21.4	19.4	17.7	15.8	16.0	16.0	21.4
25	15.5	18.2	19.1	19.9	20.3	19.7	19.7	20.7	21.5	21.2	21.2	20.1	22.0	23.9	26.1	28.5	26.1	27.0	21.8	17.7	15.9	15.0	14.9	15.5	20.5
26	16.9	20.0	20.1	19.4	20.0	20.1	23.9	23.1	19.6	24.0	24.1	27.1	25.7	26.0	27.0	27.1	28.0	27.4	22.9	21.0	18.3	16.4	17.0	17.4	22.2
27 Q	19.0	21.1	21.2	20.8	20.5	20.5	20.3	20.0	21.3	21.3	21.5	21.8	22.4	23.6	26.0	27.9	28.5	27.6	23.7	20.9	18.6	17.7	17.3	17.4	21.7
28	19.5	18.9	18.8	19.0	19.3	19.8	20.1	20.9	20.3	21.0	20.8	22.5	23.3	24.1	26.8	25.0	23.9	24.0	21.8	18.7	17.4	17.7	18.3	16.5	20.8
29	18.4	20.0	19.3	19.7	20.2	20.1	20.2	20.4	20.4	21.5	23.0	22.5	22.6	23.3	25.0	26.0	26.7	24.8	22.7	20.0	18.1	17.2	17.3	16.7	21.1
30	17.6	19.8	19.6	19.4	19.5	20.1	19.8	20.9	20.2	21.7	22.7	22.2	22.9	23.9	25.2	27.2	25.3	23.5	21.9	17.9	15.3	14.5	15.1	15.0	20.5
31 D	14.4	12.5	14.4	13.6	19.8	19.4	27.8	22.4	19.5	20.4	22.6	22.9	23.2	24.3	25.7	28.1	26.7	24.1	21.3	19.0	15.9	15.0	16.7	17.4	20.3
MEAN	18.0	19.0	19.7	20.5	21.1	21.3	21.8	21.3	21.1	21.4	21.7	22.5	22.7	23.6	25.8	27.4	28.0	26.5	22.5	19.0	17.0	16.0	16.0	16.6	21.3

VERTICAL INTENSITY

MEAN VALUES FOR PERIODS OF SIXTY MINUTES, UNIVERSAL TIME

TABLE 24 VICTORIA

Z = 53,000 GAMMA +

AUGUST

1971

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	
	T0 01	T0 02	T0 03	T0 04	T0 05	T0 06	T0 07	T0 08	T0 09	T0 10	T0 11	T0 12	T0 13	T0 14	T0 15	T0 16	T0 17	T0 18	T0 19	T0 20	T0 21	T0 22	T0 23	T0 24		
DAY																										
1	109	116	110	110	106	102	101	100	100	102	99	98	97	97	97	97	88	76	75	74	73	79	82	95	95	
2 D	97	97	107	126	120	119	113	86	50	86	90	98	98	100	110	108	103	96	85	89	93	101	99	105	99	
3 Q	111	113	109	106	100	101	100	99	99	99	100	99	102	101	104	95	84	76	75	83	90	96	98	97	97	
4	106	107	106	108	110	110	114	110	110	104	101	92	83	91	104	105	104	100	92	77	72	79	86	97	99	
5	111	118	128	143	149	147	91	100	107	106	107	108	107	108	112	110	109	98	83	87	85	83	83	93	107	
6 Q	101	103	102	100	100	99	100	101	101	99	101	98	99	100	103	102	97	89	84	82	82	89	91	95	97	
7	106	102	100	100	98	100	100	99	100	99	98	95	96	93	95	90	86	82	70	67	66	74	87	99	92	
8	105	108	123	130	138	127	119	118	109	100	88	80	90	98	93	98	101	96	92	93	96	98	103	107	105	
9	119	114	111	107	108	108	111	110	110	102	94	85	82	94	102	102	97	83	75	78	80	79	90	100	98	
10	111	111	126	135	132	131	119	112	112	110	110	108	109	108	107	111	105	89	84	82	85	84	101	109	108	
11 D	125	124	127	129	129	124	121	112	108	99	67	64	83	95	106	110	103	93	90	88	84	89	96	102	103	
12	109	110	108	107	104	104	96	72	76	86	89	98	96	80	94	97	98	96	93	95	94	92	92	105	95	
13	110	111	110	106	104	100	96	90	91	91	90	94	98	99	102	97	97	87	80	79	85	90	95	98	96	
14 Q	103	102	104	103	101	99	96	96	97	96	95	94	97	99	101	98	95	84	72	68	71	83	90	97	93	
15	102	103	99	99	98	97	97	97	96	93	94	96	98	96	95	90	89	79	68	59	68	76	87	97	91	
16	97	96	97	101	104	103	99	100	97	95	73	76	87	93	96	98	99	90	77	73	77	87	91	98	92	
17	110	108	103	99	98	98	94	97	95	90	89	92	94	97	96	98	88	74	70	72	78	86	92	91	92	
18 D	107	108	121	121	116	112	106	102	101	101	99	99	97	100	102	100	91	80	74	69	75	84	91	95	98	
19	105	105	100	101	100	101	99	101	98	98	97	98	97	97	98	99	96	92	88	86	84	89	92	94	96	
20 Q	99	96	94	95	94	97	97	95	94	95	95	94	95	94	95	95	90	80	73	75	82	87	93	101	92	
21	105	102	96	96	99	103	107	106	103	94	89	91	91	87	93	95	91	82	79	77	84	88	92	101	94	
22	111	111	111	104	103	106	109	101	80	83	89	84	89	96	98	84	85	79	80	80	88	100	111	112	96	
23 D	119	122	119	113	112	111	110	107	103	100	99	96	89	79	83	91	92	85	76	71	75	80	90	92	96	
24	97	100	101	100	97	96	97	95	94	95	94	90	88	90	95	95	91	84	76	75	75	77	84	91	91	
25	100	99	98	97	96	95	95	95	95	95	94	87	85	90	91	89	83	78	71	68	73	80	91	101	89	
26	115	117	107	100	97	97	99	99	85	70	60	61	70	71	74	80	81	83	83	84	86	92	98	108	88	
27 Q	113	108	106	101	96	97	96	97	96	97	97	97	98	98	99	98	90	79	75	78	85	91	97	95	95	
28	100	98	96	93	94	93	91	93	92	91	93	92	91	93	91	89	83	73	63	67	73	78	87	92	88	
29	102	96	95	93	91	90	89	91	91	91	93	93	93	93	93	92	92	85	75	76	81	87	96	100	91	
30	102	98	98	94	95	94	94	94	94	94	95	93	93	93	92	94	94	86	76	69	70	80	81	88	92	90
31 D	99	101	121	133	136	127	119	118	101	80	99	98	99	99	99	99	95	91	85	76	79	86	93	100	101	
MEAN	107	107	108	108	107	106	102	100	96	95	93	92	93	94	97	97	94	86	79	77	80	86	92	99	96	

MEAN VALUES FOR PERIODS OF SIXTY MINUTES, UNIVERSAL TIME

TABLE 25 VICTORIA

H = 18,500 GAMMA +

SEPTEMBER 1971

DAY	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	TO 25	TO 26	TO 27	TO 28	TO 29	TO 30	TO 31	TO 32	TO 33	TO 34	TO 35	TO 36	TO 37	TO 38	TO 39	TO 40	TO 41	TO 42	TO 43	TO 44	TO 45				
1	464	459	467	469	474	493	482	483	492	485	481	479	476	477	482	473	455	439	440	446	458	467	467	480	470																								
2 Q	479	478	476	476	478	480	482	483	482	481	485	484	483	484	478	472	464	455	451	451	458	466	478	487	475																								
3 Q	487	480	473	479	479	475	471	476	477	477	478	480	480	485	481	471	463	452	444	443	457	471	478	481	472																								
4	486	485	485	482	484	483	485	486	487	487	491	493	491	491	490	483	472	463	457	467	471	466	487	483	481																								
5	476	482	475	478	470	466	457	464	473	473	485	485	489	488	473	466	466	464	466	461	452	463	484	496	473																								
6	489	485	484	479	483	482	480	480	476	489	493	482	492	498	489	485	474	456	444	443	448	462	469	479	477																								
7 D	463	463	481	476	466	479	482	487	480	487	484	489	490	494	491	473	472	452	448	448	450	450	465	458	472																								
8	461	459	462	459	470	493	480	476	483	474	487	484	485	491	483	470	457	454	454	453	461	471	480	486	472																								
9	486	478	481	483	484	481	479	483	488	490	489	490	490	490	492	481	451	454	454	459	461	464	476	473	477																								
10	470	477	476	472	467	474	496	483	488	484	493	484	490	495	493	482	467	457	453	455	460	467	472	481	477																								
11	483	483	482	483	480	477	475	475	477	485	501	488	493	494	496	492	477	466	458	455	455	461	469	478	478																								
12	523	478	477	476	482	480	477	474	469	485	478	488	492	489	489	480	475	469	468	471	470	474	477	476	480																								
13	484	490	469	479	480	478	480	456	461	469	472	472	480	484	477	475	471	464	461	469	472	472	483	485	474																								
14	479	474	480	476	480	483	483	492	478	485	484	488	490	491	489	480	468	461	457	451	452	469	471	492	477																								
15	495	491	481	487	486	492	496	491	493	496	485	482	486	485	485	480	469	460	454	456	467	475	483	480	481																								
16	476	469	474	480	481	485	489	490	505	496	491	501	491	490	483	477	466	463	466	470	481	489	486	460	482																								
17	532	476	480	484	484	485	481	483	490	487	490	494	497	489	484	483	481	480	477	479	484	490	496	478	487																								
18 D	479	465	431	414	427	416	427	431	424	448	463	426	461	476	476	472	455	440	450	454	457	450	467	478	449																								
19	484	480	477	463	463	464	464	481	481	476	476	480	481	479	476	468	459	456	445	446	462	469	478	479	470																								
20	475	476	460	456	480	474	474	473	491	476	473	474	462	467	479	471	457	446	430	421	454	459	473	468	465																								
21 Q	477	475	473	475	476	476	472	475	480	481	484	483	482	483	478	471	461	455	442	438	447	462	473	478	471																								
22 Q	478	469	468	470	478	477	477	479	479	475	477	480	478	478	475	467	455	446	444	447	453	462	474	484	470																								
23 Q	488	485	481	478	479	482	479	479	483	480	485	484	485	483	482	476	464	462	459	457	459	467	477	484	477																								
24	486	486	487	486	485	484	485	486	488	489	489	492	491	492	492	490	480	467	451	445	455	460	474	483	480																								
25 D	480	476	474	457	453	476	426	444	433	431	432	452	488	482	450	474	461	448	435	442	445	453	471	484	457																								
26	482	475	470	473	475	476	478	481	483	479	481	487	488	491	488	479	465	466	462	456	454	465	400	419	470																								
27 D	441	436	451	433	439	451	458	462	459	455	465	452	472	471	455	457	447	427	436	456	463	467	474	479	454																								
28	473	457	455	466	475	479	488	482	491	485	484	483	482	479	477	471	468	461	461	462	467	474	479	480	474																								
29	479	475	479	479	480	478	476	485	485	485	486	486	488	485	483	479	476	470	457	460	472	474	481	479	478																								
30 D	482	490	490	489	491	487	487	490	484	482	474	485	480	489	480	481	467	450	424	434	461	467	444	450	473																								
MEAN	481	475	473	472	474	477	476	477	479	479	481	481	484	486	482	476	465	457	452	453	460	467	473	477	473																								

RECORD OF OBSERVATIONS AT VICTORIA MAGNETIC OBSERVATORY 1971

DECLINATION

MEAN VALUES FOR PERIODS OF SIXTY MINUTES, UNIVERSAL TIME

TABLE 26 VICTORIA

D = 22 DEG 00.0 MIN EAST +

SEPTEMBER

1971

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	
JAY																									
1	19.5	22.6	22.1	20.9	21.2	22.8	20.7	21.0	19.2	20.3	21.5	22.0	21.6	22.1	24.1	25.6	27.8	25.8	22.1	18.9	17.9	18.1	18.7	20.2	21.5
2 Q	22.1	21.7	20.9	20.5	20.6	20.5	20.9	20.8	21.3	21.6	22.2	22.3	22.6	23.4	24.6	26.2	26.2	25.0	21.4	18.7	16.1	14.7	15.4	17.3	21.1
3 Q	19.3	21.3	21.9	20.7	20.1	20.9	21.5	22.4	23.2	22.6	23.4	22.3	20.7	23.1	25.5	27.4	27.2	24.4	21.4	18.2	16.6	16.0	16.9	18.5	21.5
4	20.4	20.1	20.0	20.4	20.3	20.3	20.9	21.3	20.9	21.6	22.5	22.6	23.3	24.6	25.8	27.2	25.2	21.1	18.4	16.8	14.5	15.3	14.7	20.8	
5	18.7	20.3	20.0	26.0	26.8	27.3	25.2	27.0	21.9	22.0	17.4	17.5	21.9	25.6	24.6	24.2	28.1	25.7	20.9	17.5	15.3	14.1	16.4	19.0	21.8
6	21.7	21.9	20.9	20.5	20.1	19.9	21.8	27.9	22.3	17.6	17.2	22.0	24.9	26.8	26.6	27.2	29.7	27.7	22.5	18.1	17.0	15.9	16.5	17.0	21.8
7 D	18.0	21.3	20.0	19.9	23.6	25.2	20.1	18.2	11.1	18.2	21.2	22.7	22.9	24.4	25.2	22.3	24.4	21.0	17.4	14.9	14.0	13.5	15.4	16.3	19.6
8	18.8	20.3	20.2	24.2	24.7	25.8	21.9	20.2	16.5	10.9	21.4	24.7	23.8	25.0	26.8	27.5	28.0	24.2	20.5	18.4	18.1	17.3	17.7	19.6	21.5
9	21.3	22.8	21.0	20.7	20.6	20.6	21.0	20.7	20.7	20.8	21.2	21.9	20.7	23.6	23.4	26.1	26.2	23.5	18.6	17.0	17.0	17.3	18.0	18.6	21.0
10	20.4	20.4	19.9	20.6	20.2	20.2	18.5	20.5	21.2	21.2	22.0	21.0	21.4	24.1	25.2	27.0	27.9	27.2	23.2	19.7	18.0	17.6	17.9	18.3	21.4
11	19.5	19.5	20.6	20.9	20.8	20.8	21.6	21.6	22.1	21.2	20.5	25.0	24.2	23.9	27.3	27.3	26.3	25.4	24.7	22.6	20.5	20.4	19.6	19.1	22.3
12	19.8	20.2	20.0	22.3	20.1	20.1	20.0	21.4	22.7	28.0	25.6	23.2	23.3	23.3	23.8	23.9	24.5	23.4	22.6	21.0	19.6	18.2	17.5	17.9	21.8
13	18.0	16.8	21.1	22.8	21.5	18.0	30.2	22.3	24.7	22.9	23.5	25.8	24.4	24.8	23.9	24.6	24.5	23.0	21.7	18.1	16.6	16.4	18.3	19.0	21.8
14	20.3	20.4	19.5	19.6	19.9	19.7	19.7	22.9	20.6	22.1	21.6	20.8	24.6	25.1	26.4	26.5	26.1	24.8	20.7	18.6	16.2	16.3	17.8	18.8	21.2
15	17.9	17.1	18.9	19.0	19.6	19.3	19.5	20.5	22.8	24.1	25.5	29.1	24.7	23.4	23.6	24.8	25.9	26.1	23.9	21.2	20.4	19.4	19.4	19.9	21.9
16	20.1	20.6	21.3	21.5	20.0	19.7	19.8	19.5	18.5	22.9	26.4	21.2	24.4	24.2	24.5	24.9	25.2	24.2	21.5	19.8	18.0	17.3	18.2	19.1	21.4
17	21.4	19.4	19.6	21.8	20.9	19.8	20.3	20.4	19.7	19.8	20.3	21.4	21.9	21.2	22.3	24.0	24.6	24.1	19.8	17.4	16.5	15.9	15.3	15.8	20.1
18 D	14.9	25.2	24.9	20.5	23.6	25.0	21.7	25.9	17.8	22.6	24.0	24.1	25.6	24.6	25.2	26.4	26.3	21.9	21.2	20.2	18.4	18.1	18.4	19.7	22.3
19	21.3	21.8	22.3	21.1	21.8	21.2	18.8	18.4	20.6	21.7	22.8	23.3	23.4	23.9	25.4	27.1	27.5	25.6	21.9	17.7	16.5	17.5	18.7	19.0	21.6
20	20.2	19.8	19.7	23.8	25.0	21.1	20.0	20.3	17.4	19.8	25.1	23.7	20.4	19.7	25.5	28.2	27.7	26.4	24.0	20.1	17.2	16.8	17.9	18.4	21.6
21 Q	20.5	20.2	20.5	21.2	21.0	20.6	20.5	20.3	20.8	21.0	21.5	22.4	22.6	22.7	24.2	25.7	26.8	24.4	23.3	19.4	17.4	16.8	17.0	18.5	21.2
22 Q	20.3	20.6	21.4	21.5	21.1	20.3	20.5	20.1	20.6	21.7	21.4	22.4	22.9	24.1	24.9	26.3	27.6	25.6	22.6	20.0	18.3	17.4	17.6	18.8	21.6
23 Q	20.5	20.7	20.7	20.8	21.3	20.9	20.3	20.4	21.6	20.8	21.4	21.8	22.3	22.4	23.5	25.2	25.8	25.4	23.3	20.1	18.2	18.0	18.7	19.5	21.4
24	20.1	20.0	20.0	20.1	20.4	20.2	20.2	20.4	20.2	20.7	21.0	21.2	22.1	22.4	23.6	25.3	26.9	27.0	24.9	19.3	14.9	14.5	15.6	16.9	20.7
25 D	19.2	19.7	19.3	18.2	19.2	33.3	27.9	25.0	27.6	32.4	33.7	31.4	25.6	27.3	22.6	24.2	29.2	27.1	24.9	21.5	17.6	17.0	18.0	18.7	24.2
26	20.1	19.6	19.7	19.4	20.4	20.5	20.6	20.0	22.0	22.9	24.6	23.6	23.1	23.5	25.4	27.1	28.1	25.8	21.6	18.2	15.3	17.0	18.0	17.9	21.4
27 D	13.1	16.2	23.7	18.9	17.5	20.7	21.5	21.4	19.3	19.9	20.5	16.3	23.7	21.7	23.2	23.1	23.5	22.2	20.2	18.3	17.3	17.3	18.5	19.2	19.9
28	19.4	19.4	20.5	20.3	21.6	20.7	23.8	19.7	18.0	18.3	20.6	23.8	23.4	22.6	22.5	23.0	23.9	23.9	22.1	21.4	20.6	19.7	19.9	19.8	21.2
29	20.4	20.3	20.4	20.4	20.2	20.4	21.3	20.0	20.4	21.2	21.7	22.2	21.1	22.5	22.2	24.0	25.1	24.2	23.7	22.1	20.9	20.0	19.0	18.5	21.3
30 D	19.2	19.0	19.4	19.4	19.3	20.5	22.3	21.0	20.8	25.3	26.4	20.0	14.7	20.0	18.4	23.9	19.8	19.6	17.6	13.1	17.9	16.8	17.3	17.9	19.6
MEAN	19.5	20.3	20.7	20.9	21.1	21.5	21.4	21.4	20.6	21.5	22.6	22.7	22.7	23.5	24.3	25.5	26.3	24.7	21.8	19.0	17.5	17.0	17.6	18.4	21.4

PUBLICATIONS OF THE EARTH PHYSICS BRANCH

VERTICAL INTENSITY

MEAN VALUES FOR PERIODS OF SIXTY MINUTES, UNIVERSAL TIME

TABLE 27 VICTORIA

Z = 53,000 GAMMA +

SEPTEMBER

1971

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	104	110	108	106	103	96	92	94	85	80	88	90	91	93	96	94	91	82	75	72	79	87	92	97	92	
2 Q	98	97	94	95	95	96	95	94	94	93	94	94	92	94	96	99	99	91	86	78	77	77	85	92	92	
3 Q	102	98	101	101	99	99	102	101	99	94	89	87	87	86	95	94	93	87	76	70	76	87	94	97	92	
4	99	96	95	94	95	95	94	95	94	93	93	91	91	90	94	92	87	80	72	74	73	81	90	94	90	
5	99	97	95	101	101	99	102	95	95	89	58	57	79	91	93	79	78	71	70	74	86	95	100	103	88	
6	103	97	94	90	91	93	93	87	88	86	69	63	82	96	97	88	84	77	69	72	82	87	95	104	87	
7 D	108	115	114	107	107	111	102	101	72	71	89	91	97	98	95	78	67	59	63	75	87	97	109	113	93	
8	121	111	112	114	111	97	93	97	92	56	73	85	95	96	99	98	93	88	88	92	95	98	100	98	96	
9	105	98	96	94	94	94	94	94	96	94	91	96	93	91	95	92	89	80	74	84	90	92	98	102	93	
10	104	100	97	98	99	100	87	87	93	95	95	94	94	93	95	97	95	89	80	77	81	87	89	97	93	
11	97	96	92	95	94	96	96	97	96	96	78	80	90	93	85	81	79	76	78	78	83	89	95	97	89	
12	101	97	96	94	97	95	95	97	91	72	87	95	95	94	98	94	92	90	85	83	87	87	88	87	92	
13	92	93	97	102	102	99	88	85	97	98	106	104	106	102	100	98	94	92	88	89	90	93	98	98	96	
14	102	95	98	97	98	96	97	93	95	97	97	86	90	94	95	94	84	81	79	79	81	88	93	95	92	
15	102	95	94	96	93	95	93	93	93	79	59	68	85	91	94	97	93	91	87	85	86	90	95	98	90	
16	99	95	98	99	98	97	93	91	80	80	86	86	83	89	90	89	87	87	86	81	86	86	85	80	89	
17	129	94	95	96	96	92	94	93	92	84	84	88	87	87	86	90	87	80	80	74	75	82	88	86	89	
18 D	103	141	173	187	158	151	142	107	32	110	89	29	71	97	103	105	100	90	93	94	95	96	101	102	107	
19	105	101	98	100	104	103	102	87	81	91	99	98	99	98	99	100	99	92	82	87	91	98	100	105	97	
20	104	102	104	110	106	100	100	102	93	68	81	92	83	63	72	85	85	83	80	82	90	89	98	97	90	
21 Q	101	100	97	98	99	97	99	100	103	101	101	99	99	99	99	100	99	98	98	96	96	96	100	99	99	
22 Q	102	99	101	100	100	100	101	100	101	101	101	99	97	99	101	101	101	95	90	91	98	100	100	97	99	
23 Q	96	96	96	95	98	97	96	99	95	97	97	97	96	96	95	97	96	93	88	86	87	89	92	92	94	
24	93	92	92	91	90	92	92	93	94	95	93	93	93	92	93	94	92	83	76	76	83	89	93	98	91	
25 D	99	100	101	102	115	102	78	95	93	87	62	63	92	92	84	81	90	91	88	88	88	93	100	104	91	
26	102	100	99	98	98	97	99	99	100	101	103	99	98	99	96	94	88	82	77	80	91	103	127	97	97	
27 D	144	170	199	170	152	128	120	121	104	55	83	46	57	86	82	101	98	92	94	100	98	99	103	103	109	
28	106	102	106	108	105	101	98	98	84	82	86	92	94	94	91	89	91	87	93	90	91	90	92	93	94	
29	99	98	99	98	98	97	97	96	90	93	96	95	93	92	93	91	91	90	87	85	84	87	88	88	93	
30 D	96	96	96	95	96	94	96	99	98	86	79	66	25	34	40	49	60	68	68	78	85	86	89	96	78	
MEAN	104	103	105	104	103	100	98	96	91	87	87	84	88	91	92	91	90	85	82	82	86	90	95	98	93	

RECORD OF OBSERVATIONS AT VICTORIA MAGNETIC OBSERVATORY 1971

HORIZONTAL INTENSITY

MEAN VALUES FOR PERIODS OF SIXTY MINUTES, UNIVERSAL TIME

TABLE 28 VICTORIA

H = 18,500 GAMMA +

OCTOBER

1971

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	460	455	440	441	450	455	463	483	467	467	472	468	481	485	474	469	476	469	475	477	477	477	471	455	467	
2 D	462	466	460	479	472	467	488	464	467	472	463	480	489	481	483	480	465	460	459	465	473	469	451	469	470	
3	463	431	436	451	461	479	476	468	473	474	481	484	464	474	479	480	466	456	454	452	461	467	471	472	466	
4	469	476	477	481	471	467	479	483	476	476	484	483	484	477	484	479	468	458	452	446	440	444	460	475	470	
5	478	456	462	468	466	471	469	463	468	479	478	481	481	472	471	472	471	456	446	444	453	467	481	492	469	
6	477	449	474	481	478	479	477	478	482	484	488	491	490	492	486	486	476	460	452	453	461	471	484	473	476	
7	483	482	480	480	480	478	477	476	481	479	484	487	484	481	479	474	465	459	435	442	427	406	444	448	467	
8 D	465	461	468	468	454	463	476	471	469	473	466	480	469	479	480	470	464	459	454	454	461	473	473	482	468	
9 D	485	473	449	447	449	422	424	459	463	473	462	462	467	476	475	459	462	467	446	445	459	473	479	466	460	
10	475	475	478	477	482	483	476	472	477	478	482	484	484	485	482	476	474	467	469	468	472	477	480	477	477	
11	474	475	480	483	482	480	481	484	486	483	483	483	489	489	480	486	477	472	462	460	471	476	468	468	478	
12	472	470	473	470	476	479	480	478	480	479	483	480	483	480	482	485	477	469	476	477	480	485	485	470	478	
13	470	477	473	476	480	482	482	471	478	479	482	483	480	484	477	454	448	466	476	477	478	476	477	479	475	
14	477	483	483	483	483	482	485	480	483	486	488	492	486	487	492	482	479	470	472	478	482	483	489	479	483	
15	469	480	484	481	477	480	482	482	484	484	486	487	488	482	477	479	477	464	454	459	460	469	477	483	477	
16	488	486	487	487	485	487	486	487	490	490	490	490	488	482	484	475	462	454	453	464	472	477	485	487	481	
17 Q	489	486	487	485	486	486	487	487	487	488	492	492	494	492	487	484	477	470	465	467	470	473	481	484	483	
18 Q	486	487	490	489	489	488	490	488	491	491	494	494	494	494	489	486	477	467	469	478	484	489	493	492	487	
19 Q	490	490	487	491	490	489	492	488	492	490	492	494	494	495	492	486	481	477	477	480	484	488	489	489	488	
20	487	487	490	491	490	490	487	487	490	488	488	492	492	495	491	493	489	480	475	468	469	471	478	480	478	485
21	481	478	482	487	487	485	481	484	487	489	493	493	492	491	494	489	476	468	461	465	470	472	474	479	482	
22	487	483	486	487	482	476	462	453	480	470	477	486	489	488	487	487	477	463	476	483	479	476	481	483	479	
23	485	486	487	489	491	488	489	489	490	492	495	500	509	500	504	500	484	470	468	469	477	489	492	494	489	
24	493	484	482	487	490	487	486	480	485	487	488	490	479	483	489	483	473	461	450	449	453	467	479	474	478	
25	472	472	477	476	479	481	483	483	481	479	480	477	486	483	485	480	472	466	468	461	457	465	474	476	476	
26 Q	478	480	483	486	484	483	484	484	488	487	489	487	487	486	483	475	465	461	462	462	468	471	475	475	479	
27 Q	483	486	484	486	488	483	484	487	488	491	491	491	497	494	489	480	472	468	460	459	465	470	478	488	482	
28	494	490	490	484	482	486	485	488	504	479	486	494	494	492	492	490	488	479	480	472	490	486	474	460	486	
29 D	458	452	440	441	455	462	449	456	466	460	473	478	481	481	479	469	453	458	450	421	440	436	461	465	458	
30	466	454	470	452	446	460	473	473	466	472	475	475	478	474	472	461	466	463	463	465	466	474	479	480	468	
31	482	475	466	471	477	478	478	474	483	480	479	481	482	481	481	477	467	455	457	459	465	470	477	483	474	
MEAN	477	474	474	476	476	477	478	477	481	481	483	485	486	485	484	479	472	465	462	462	466	471	476	477	476	

MEAN VALUES FOR PERIODS OF SIXTY MINUTES, UNIVERSAL TIME

TABLE 29 VICTORIA

D = 22 DEG 00.0 MIN EAST +

OCTOBER

1971

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
	T0 01	T0 02	T0 03	T0 04	T0 05	T0 06	T0 07	T0 08	T0 09	T0 10	T0 11	T0 12	T0 13	T0 14	T0 15	T0 16	T0 17	T0 18	T0 19	T0 20	T0 21	T0 22	T0 23	T0 24	
DAY																									
1 D	19.6	21.2	35.0	25.5	22.4	21.5	21.2	19.5	17.3	22.1	19.3	18.0	20.5	21.2	20.9	19.0	20.9	20.3	20.1	19.7	19.1	19.2	18.9	20.3	20.9
2 D	21.3	20.7	22.9	23.0	22.1	24.1	24.9	21.9	22.7	23.3	16.4	18.4	23.8	22.7	22.5	22.2	21.0	20.0	21.2	19.6	18.5	18.8	19.1	19.3	21.3
3	18.9	24.5	25.4	19.6	23.6	23.9	20.5	21.5	21.5	18.2	19.7	21.4	18.1	20.1	22.8	23.3	24.0	23.3	22.3	20.7	19.7	19.6	19.7	20.3	21.4
4	20.6	21.8	21.5	22.8	22.0	21.5	21.6	17.5	19.9	17.2	21.9	23.4	21.6	18.6	20.8	23.9	24.9	24.6	22.4	18.9	16.0	14.8	18.1	18.9	20.6
5	18.8	20.0	25.3	24.0	21.1	20.7	23.7	19.6	19.7	20.7	21.9	21.7	22.6	21.2	19.5	20.7	24.6	25.3	24.0	20.8	18.5	18.4	18.6	16.6	21.2
6	18.6	25.6	17.5	17.8	19.1	19.7	20.3	20.5	20.6	21.7	22.0	23.4	23.7	23.6	25.0	25.8	27.0	22.9	22.8	20.2	18.5	17.6	17.6	19.6	21.3
7	20.6	20.7	20.7	20.9	20.8	21.1	21.0	20.6	20.4	20.6	20.8	21.1	21.5	22.3	23.7	25.8	26.9	25.9	23.6	18.9	18.8	15.4	15.4	16.6	21.0
8 D	20.8	19.9	20.0	24.9	22.2	21.4	20.2	17.4	19.4	21.6	22.1	23.1	27.2	19.3	23.4	24.3	25.2	25.0	21.8	19.1	17.2	17.2	17.5	18.4	21.2
9 D	19.4	19.5	21.1	20.0	23.7	26.9	28.2	22.6	22.9	19.7	13.6	19.4	25.1	24.0	24.3	22.7	22.5	23.7	22.8	19.4	19.7	20.5	20.3	20.3	21.8
10	22.3	21.4	21.0	21.8	27.1	23.5	22.0	18.4	18.1	18.2	18.4	21.8	22.3	22.9	23.5	24.3	24.5	23.8	22.5	20.2	19.3	19.2	19.4	20.0	21.5
11	19.8	19.8	19.9	20.2	20.2	20.4	20.2	20.0	18.1	21.2	22.4	22.7	17.4	18.0	15.3	17.1	15.5	17.3	15.4	15.3	16.6	19.2	19.7	20.6	18.8
12	20.7	20.3	20.2	20.6	21.7	20.3	20.1	20.3	20.2	20.6	20.7	20.8	20.8	21.1	22.2	22.9	22.9	18.7	17.6	16.5	17.5	18.5	18.8	17.5	20.1
13	17.7	16.9	17.9	17.9	18.7	20.1	20.5	22.2	24.0	23.9	22.9	24.5	23.2	21.9	23.1	23.2	20.7	18.8	18.5	17.9	19.1	19.2	19.7	19.2	20.5
14	20.6	20.0	20.5	20.6	20.9	20.6	19.8	20.5	22.1	20.9	21.5	21.5	19.8	17.1	22.2	24.4	25.0	23.2	20.1	17.2	17.5	18.0	16.7	18.5	20.4
15	18.8	19.9	20.0	20.2	21.2	20.5	19.8	20.2	20.4	20.3	21.0	21.4	21.1	21.5	21.3	21.8	23.9	23.4	21.5	19.5	18.5	18.3	18.6	18.8	20.5
16	19.8	19.8	20.0	20.7	20.4	20.3	20.2	20.1	20.3	20.8	20.6	21.9	22.7	21.4	22.5	24.6	25.7	23.4	21.0	18.3	16.6	16.8	17.5	18.4	20.6
17 Q	20.2	19.6	20.0	20.2	20.2	20.3	20.0	20.8	19.3	19.8	20.9	21.1	20.2	20.8	21.2	23.3	24.5	23.7	22.4	19.9	18.2	17.9	18.1	19.2	20.5
18 Q	19.7	19.7	19.6	20.0	20.1	20.2	20.5	19.6	20.2	20.1	20.7	21.1	21.1	22.0	22.5	22.9	24.0	23.8	21.4	18.6	16.7	17.3	18.2	19.1	20.4
19 Q	20.1	19.6	20.1	20.1	20.1	19.6	19.8	19.8	20.2	20.4	20.8	20.9	21.4	21.5	22.7	23.3	24.1	23.9	22.5	20.1	18.1	17.3	18.1	18.9	20.6
20	19.8	19.7	19.7	20.1	19.9	20.0	20.3	20.2	21.1	21.9	22.2	21.6	22.5	20.9	21.0	24.2	25.9	25.3	21.9	18.5	17.8	17.4	17.9	18.5	20.8
21	19.1	18.9	19.8	19.9	20.1	20.3	21.0	20.5	19.8	19.9	20.6	21.2	21.5	21.4	21.1	23.0	23.9	22.8	21.4	17.9	16.8	17.3	18.1	18.6	20.2
22	19.4	19.7	20.2	20.2	20.2	20.0	22.7	22.9	21.6	25.3	24.6	23.7	22.4	21.9	22.5	23.6	22.7	17.5	13.7	13.3	15.2	16.8	18.8	19.9	20.4
23	20.9	20.3	20.6	20.4	20.2	20.3	20.2	19.8	19.8	19.9	20.0	20.6	21.3	22.0	22.2	24.9	25.1	24.9	21.6	19.1	17.1	15.2	15.7	17.9	20.4
24	19.1	20.4	20.5	21.0	20.9	22.5	21.1	20.6	22.4	20.5	22.3	23.1	20.0	13.8	21.9	23.3	24.2	23.7	22.4	19.0	16.5	16.1	16.4	18.7	20.4
25	20.4	20.3	21.2	20.9	21.5	21.2	19.8	21.2	20.8	20.6	21.6	20.5	19.2	20.9	22.4	23.9	24.4	23.0	20.4	18.2	16.8	15.8	18.5	19.2	20.5
26 Q	20.6	20.1	20.2	20.4	20.5	20.1	20.4	20.3	20.3	20.1	20.3	20.2	20.4	19.9	21.1	22.4	24.1	24.9	23.3	21.2	20.0	18.6	18.3	17.6	20.6
27 Q	19.0	19.4	20.0	20.1	20.5	20.6	20.7	20.4	20.2	20.1	20.3	20.4	20.7	21.2	21.7	22.9	24.4	24.5	23.3	21.0	20.1	19.2	18.8	18.8	20.8
28	19.6	19.5	19.9	21.2	21.9	20.5	20.4	20.1	25.7	24.0	22.4	22.7	23.9	22.0	23.7	24.3	25.4	24.4	19.0	14.7	14.7	15.7	17.3	17.0	20.8
29 D	18.6	16.5	23.5	26.3	24.3	23.7	27.9	23.6	21.4	17.0	15.8	20.4	20.3	18.7	20.0	19.5	22.5	22.5	21.1	19.0	16.5	16.9	17.2	18.7	20.5
30	23.3	20.5	27.2	26.1	26.2	26.0	24.0	22.2	23.2	20.6	19.5	19.6	20.4	22.1	20.6	20.0	21.8	22.8	20.9	19.5	19.5	19.6	19.9	20.2	21.9
31	20.7	19.9	20.5	20.9	20.7	20.1	20.6	20.8	20.4	19.6	20.0	21.0	21.3	21.2	21.3	23.0	24.0	23.2	20.6	20.0	19.5	18.5	19.7	19.0	20.7
MEAN	20.0	20.2	21.4	21.2	21.4	21.4	21.4	20.5	20.8	20.7	20.6	21.4	21.5	20.9	21.9	22.9	23.7	22.9	21.1	18.8	17.9	17.8	18.3	18.9	20.7

VERTICAL INTENSITY

MEAN VALUES FOR PERIODS OF SIXTY MINUTES, UNIVERSAL TIME

TABLE 30 VICTORIA		Z = 53,000 GAMMA +																							OCTOBER 1971	
HOUR	=	C0	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23	MEAN
		T0	T0	T0	T0	T0	T0	T0	T0	T0	T0	T0	T0	T0	T0	T0	T0	T0	T0	T0	T0	T0	T0	T0	T0	
		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	105	110	126	125	132	132	121	101	65	80	77	80	85	86	82	85	83	83	81	82	86	92	99	95	
2	D	107	109	112	108	107	105	90	87	84	71	48	41	63	83	94	93	92	90	92	86	86	89	93	89	
3		105	111	128	126	123	111	96	100	101	98	78	85	69	71	89	99	100	102	104	97	94	96	100	99	
4		100	102	104	102	102	104	101	91	85	76	76	88	92	83	82	87	90	91	88	85	86	94	102	103	
5		108	104	112	107	108	96	101	94	91	90	96	95	95	91	91	87	93	88	86	81	84	90	97	102	
6		108	122	117	108	104	102	105	102	100	100	95	92	95	96	94	93	89	85	85	86	88	92	94	95	
7		99	96	95	96	96	95	96	97	97	97	97	97	94	94	97	98	97	92	86	84	78	88	105	108	
8	D	118	114	113	108	108	114	107	94	91	92	85	55	47	79	92	101	104	99	92	90	91	97	98	101	
9	D	104	102	103	111	103	84	102	115	111	103	68	53	33	57	85	89	97	102	98	95	95	99	102	100	
10		105	102	103	100	101	94	97	95	88	88	87	94	96	95	98	97	97	95	90	89	90	95	96	96	
11		99	96	98	97	97	96	97	95	89	84	93	95	88	70	70	65	70	72	72	75	83	88	95	97	
12		100	97	99	99	101	97	95	95	96	95	96	95	95	91	92	94	94	86	83	81	84	88	91	92	
13		98	101	106	106	106	101	99	98	88	82	88	87	87	88	92	91	87	84	81	80	82	89	95	95	
14		99	98	98	98	97	97	95	94	96	97	96	94	90	74	73	83	86	83	82	82	84	86	90	90	
15		93	95	99	97	98	95	98	95	95	93	92	93	91	90	87	91	90	87	84	85	88	89	94	94	
16		94	93	94	93	94	93	92	92	92	89	89	90	89	90	92	97	92	89	88	87	85	86	87	89	
17	Q	92	89	92	93	93	93	93	91	91	91	92	90	90	89	88	95	95	93	88	84	87	89	88	88	
18	Q	92	91	92	91	91	91	91	90	91	90	91	88	89	88	90	92	95	90	84	83	84	86	88	87	
19	Q	90	89	90	89	90	90	90	90	91	90	90	87	88	87	89	90	92	90	83	78	77	82	83	86	
20		88	88	89	88	90	89	91	92	91	90	90	89	86	87	88	90	84	77	77	77	84	88	92	88	
21		92	93	93	94	93	93	94	93	94	93	92	90	89	88	89	90	93	83	75	78	84	91	91	91	
22		91	89	90	89	89	90	92	95	83	80	86	88	87	86	90	90	89	81	77	78	79	85	88	90	
23		91	87	87	88	88	87	88	89	89	90	88	89	89	85	88	89	87	84	81	80	83	89	89	88	
24		90	89	88	90	89	91	90	86	91	90	83	86	79	55	68	78	82	83	77	77	81	86	93	94	
25		95	94	94	93	94	94	90	90	88	91	89	87	81	82	89	93	92	92	86	85	90	88	94	96	
26	Q	96	93	93	90	89	89	87	88	88	88	89	89	88	88	89	91	91	87	82	80	84	87	89	90	
27	Q	96	93	94	93	92	90	89	91	89	89	90	89	89	89	90	88	83	79	79	79	82	84	91	90	
28		90	87	89	88	88	88	87	85	74	68	66	62	72	82	87	85	82	74	71	73	72	74	78	85	
29	D	95	110	123	127	119	109	107	103	101	89	80	85	89	90	89	90	95	97	90	86	94	96	101	101	
30		109	105	115	107	115	109	94	94	94	85	85	86	89	91	92	96	99	94	88	87	89	93	95	93	
31		92	92	93	95	97	96	95	91	90	86	87	90	91	90	95	96	98	90	87	90	92	87	89	86	
MEAN		98	98	101	100	100	97	96	94	91	98	86	85	84	84	88	90	91	88	84	83	85	89	93	94	91

MEAN VALUES FOR PERIODS OF SIXTY MINUTES, UNIVERSAL TIME

TABLE 31 VICTORIA

H = 18,500 GAMMA +

NOVEMBER 1971

-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	
JAY																									
1	480	474	473	476	478	474	476	479	477	482	483	486	485	485	482	474	468	464	463	465	468	472	478	479	476
2	485	487	486	486	487	484	487	483	486	489	489	488	489	489	483	476	471	468	468	466	470	471	477	479	481
3 Q	482	481	483	483	483	476	478	479	479	484	484	486	490	489	488	488	480	479	476	478	472	472	481	485	482
4	491	486	498	495	492	485	487	494	491	493	495	495	497	496	496	493	485	479	423	441	453	465	477	482	483
5	487	485	488	484	486	484	481	481	483	483	484	481	480	486	482	486	482	473	481	475	473	473	474	480	481
6	497	486	484	486	486	483	486	485	484	481	491	488	490	490	485	481	481	477	470	472	473	472	477	487	483
7	489	481	478	474	472	473	470	476	478	484	485	489	494	488	489	493	482	471	464	457	459	466	474	480	478
8	489	490	483	486	488	487	489	494	492	484	497	500	503	504	500	494	483	466	458	457	456	460	465	463	483
9	479	481	481	483	481	487	482	479	482	482	482	484	482	480	479	480	468	463	454	447	454	460	471	475	475
10	481	483	484	486	487	487	486	489	489	490	489	491	496	495	495	494	497	496	488	483	477	480	490	485	488
11	488	481	476	460	471	467	472	471	474	474	478	478	481	482	480	473	469	459	459	437	436	456	463	466	469
12	474	479	482	482	483	478	498	484	481	483	482	482	485	483	484	478	475	469	464	452	440	447	466	475	475
13	481	481	482	483	481	478	481	484	481	479	479	484	486	486	486	480	478	472	464	456	454	458	469	478	477
14 Q	484	488	488	488	486	486	487	485	490	485	490	488	489	489	489	486	487	486	478	467	462	462	470	474	483
15 Q	484	485	488	488	487	486	487	487	495	488	488	489	491	490	490	490	482	484	475	466	460	464	476	480	483
16 Q	483	489	489	489	488	489	492	486	486	486	486	488	488	485	485	492	486	477	472	461	462	466	475	488	483
17 Q	491	489	491	490	490	487	488	487	486	490	489	491	493	492	491	491	489	480	475	467	466	469	481	486	485
18	494	494	481	469	476	488	482	486	488	485	493	489	493	490	488	485	487	486	484	474	473	475	483	484	484
19	491	495	497	498	497	496	497	495	498	499	502	503	504	503	490	494	484	477	474	466	467	470	480	486	490
20	490	486	488	488	487	485	484	482	476	472	480	485	486	492	488	482	474	462	460	463	473	474	478	487	480
21	490	490	489	484	485	481	474	474	467	477	479	475	479	471	484	479	477	468	453	450	459	467	474	477	475
22 D	466	483	483	479	480	470	466	466	454	447	477	479	476	483	487	490	490	488	473	453	438	420	443	445	468
23 D	437	451	449	458	478	458	448	471	447	466	470	467	459	472	484	455	465	471	433	430	447	428	416	428	454
24 D	451	448	462	454	440	483	447	476	464	459	467	467	451	457	463	456	459	462	447	441	436	431	440	438	454
25 D	443	445	464	460	439	466	443	443	448	412	430	445	437	476	477	428	441	445	456	452	450	450	448	457	448
26 D	468	474	467	472	464	476	472	466	461	457	464	456	471	477	477	474	472	466	455	451	455	461	467	474	467
27	482	479	480	473	474	476	476	477	483	481	480	474	477	481	484	480	472	473	466	458	455	456	467	473	474
28	476	480	481	480	484	477	476	485	483	481	483	480	484	481	480	481	481	475	465	448	446	459	468	475	475
29	476	473	480	477	480	479	480	479	480	479	481	480	483	481	486	485	488	479	465	459	461	465	471	477	477
30	477	479	478	477	473	474	475	478	483	485	481	485	487	487	483	487	483	480	472	464	463	461	465	474	477
MEAN	479	480	481	480	479	480	478	480	479	478	482	482	484	485	485	481	478	473	465	459	459	461	469	474	476

DECLINATION

MEAN VALUES FOR PERIODS OF SIXTY MINUTES, UNIVERSAL TIME

TABLE 32 VICTORIA

D = 22 DEG 00.0 MIN EAST +

NOVEMBER

1971

HOURL =	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	TO	
DAY																										
1	19.4	19.4	19.8	20.2	20.5	22.0	21.0	20.6	20.3	19.3	20.4	20.7	20.6	20.2	21.2	22.7	22.9	21.6	20.4	19.5	19.2	19.5	19.7	20.0	20.5	
2	20.4	19.7	20.0	20.0	20.0	20.3	20.0	20.2	20.2	20.1	20.4	20.5	20.8	21.2	21.3	21.9	22.7	22.3	19.9	19.2	18.6	18.5	18.9	19.3	20.3	
3 Q	20.2	20.2	20.3	20.5	20.4	20.8	20.5	19.7	20.4	20.1	20.2	20.0	20.1	21.3	21.5	22.6	23.1	21.9	20.7	19.0	18.6	18.8	19.1	18.7	20.4	
4	19.1	19.8	20.4	20.3	20.6	20.2	20.1	20.1	20.3	20.6	20.8	20.7	21.3	21.4	21.8	22.8	24.8	23.5	23.0	19.8	19.0	18.2	18.8	19.7	20.7	
5	19.1	19.7	19.9	20.3	20.7	20.1	21.0	19.9	19.9	20.0	20.9	22.2	21.5	23.5	23.8	24.6	25.4	24.1	20.9	17.7	15.6	15.3	16.6	18.5	20.5	
6	19.5	19.6	20.3	20.4	20.5	21.0	20.9	21.0	20.8	20.6	20.3	20.3	20.9	21.3	21.8	22.7	23.4	23.1	21.2	20.0	19.0	19.0	19.2	19.4	20.7	
7	19.4	20.1	20.2	22.0	22.5	22.3	22.9	22.7	22.4	21.4	18.7	20.9	20.5	21.2	18.4	23.1	23.7	24.3	23.6	21.2	19.6	18.0	17.9	18.3	21.1	
8	19.8	19.0	20.0	19.8	20.6	20.8	20.8	20.7	20.4	20.5	20.3	20.4	20.5	21.0	21.7	22.8	22.9	22.8	21.9	19.7	19.2	18.3	18.6	18.5	20.5	
9	19.7	19.8	20.5	21.0	21.4	21.0	20.4	20.4	20.4	19.9	20.1	20.0	21.0	21.7	21.7	23.4	24.7	25.6	23.8	21.1	19.6	18.6	18.5	18.8	21.0	
10	19.5	19.7	20.4	20.6	20.4	20.6	20.6	20.5	20.1	20.1	20.1	20.2	20.2	20.5	20.8	22.7	24.2	24.3	23.3	21.0	19.4	18.1	17.6	17.3	20.5	
11	17.7	17.5	14.4	17.6	20.1	20.9	20.9	21.4	22.7	21.7	20.8	21.5	21.8	22.0	21.8	22.8	24.6	23.2	23.1	20.8	19.5	19.0	17.7	17.7	20.5	
12	18.6	20.5	20.2	21.1	21.1	21.8	21.5	20.3	20.6	20.0	20.0	20.6	20.7	21.1	21.1	21.4	22.7	23.1	22.8	22.5	19.7	16.1	17.2	18.0	20.5	
13	19.0	19.8	20.4	20.9	20.7	20.7	20.4	20.2	20.7	20.5	20.6	20.9	21.2	21.3	21.1	21.1	22.0	23.3	23.6	22.8	21.9	20.4	19.2	18.8	20.9	
14 C	19.5	19.4	20.0	20.4	20.3	20.3	20.4	20.4	20.2	20.3	20.6	20.7	21.0	21.4	21.2	21.7	22.2	22.9	23.4	22.2	21.0	19.5	18.6	18.5	20.7	
15 Q	19.0	19.6	20.1	20.1	20.5	20.3	20.3	20.5	20.6	20.5	20.8	20.7	20.9	20.9	20.9	21.8	23.2	23.9	23.3	21.6	20.1	18.8	18.5	18.4	20.6	
16 Q	19.3	19.6	20.0	20.5	20.6	20.6	20.3	20.5	20.3	21.3	20.4	20.4	20.7	20.7	21.3	21.8	22.6	23.4	23.1	21.9	20.5	19.3	18.5	18.5	20.7	
17 Q	19.3	19.7	20.2	20.1	20.1	20.1	20.1	20.0	20.1	20.0	20.1	20.0	20.1	20.0	20.3	20.6	20.8	21.6	22.5	23.5	22.9	21.7	20.0	18.5	18.4	20.4
18	19.3	19.8	20.0	19.3	20.5	19.6	19.7	19.9	20.5	21.5	22.8	21.4	20.9	21.1	20.8	20.8	22.7	22.6	22.0	20.9	19.8	19.1	19.6	19.5	20.6	
19	20.2	20.1	20.5	20.4	20.2	20.2	20.1	19.7	19.7	19.5	19.7	19.7	19.7	20.2	20.7	18.4	19.5	22.5	23.6	22.2	20.6	18.6	17.9	17.6	18.5	20.0
20	20.1	19.7	20.4	20.4	20.8	20.5	20.5	20.8	21.7	23.5	20.2	20.7	20.6	21.1	21.7	22.3	24.0	24.4	19.4	18.5	17.3	15.6	16.8	17.9	20.4	
21	18.9	20.0	20.4	20.7	20.6	20.5	20.3	20.8	22.0	21.2	16.6	22.6	23.8	22.1	21.7	23.3	24.9	24.4	22.2	19.9	17.8	17.4	16.9	16.5	20.6	
22 D	16.6	18.8	20.6	20.2	21.4	22.6	19.8	20.4	20.7	22.9	24.5	21.4	22.5	24.3	22.4	16.7	22.0	24.2	21.5	18.7	18.9	16.4	17.2	17.3	20.5	
23 D	18.0	19.8	20.9	25.6	21.8	22.7	28.6	28.2	25.4	21.1	19.4	19.9	13.7	17.1	21.9	20.4	19.8	23.8	23.2	19.2	16.4	16.6	16.5	17.2	20.7	
24 D	19.0	24.2	26.7	23.6	26.2	24.9	27.0	21.1	22.1	25.8	18.7	21.0	18.3	16.6	17.0	17.7	17.0	23.6	22.3	20.0	18.7	18.1	19.5	17.4	21.1	
25 D	18.1	20.7	25.0	26.3	35.4	33.3	22.6	14.7	28.8	27.6	16.2	21.4	9.5	14.0	14.1	11.0	13.8	17.4	23.5	22.8	20.3	18.9	18.8	19.1	20.6	
26 D	19.9	21.1	24.0	23.3	23.2	19.9	21.7	23.9	21.1	25.3	22.4	16.4	19.5	22.3	22.6	22.4	22.6	21.8	22.1	22.2	20.3	19.1	19.1	18.8	21.5	
27	20.1	20.2	20.7	21.3	22.5	20.9	21.0	20.7	20.7	20.9	21.7	20.5	19.6	22.0	22.0	21.7	21.0	23.0	23.1	21.8	21.0	19.3	18.5	18.7	21.0	
28	20.4	20.0	20.7	21.2	21.6	21.0	22.8	20.3	19.9	20.4	19.5	15.3	21.7	21.6	21.6	22.2	24.0	24.6	24.1	22.5	19.7	18.4	18.2	18.9	20.9	
29	20.3	20.4	20.9	20.6	21.7	20.8	20.3	20.1	20.6	19.9	19.5	20.7	20.7	19.7	21.2	21.3	21.9	21.2	19.8	19.3	18.3	18.9	19.5	19.6	20.3	
30	20.5	20.5	20.8	20.3	20.8	20.7	20.7	20.2	18.9	19.9	19.8	20.4	19.7	18.2	21.1	21.5	22.2	22.7	22.7	21.9	20.0	18.7	18.3	18.1	20.4	
MEAN	19.3	19.9	20.6	21.0	21.6	21.4	21.2	20.7	21.1	21.2	20.2	20.4	20.2	20.7	21.0	21.4	22.5	23.1	22.3	20.7	19.3	18.3	18.3	18.5	20.6	

MEAN VALUES FOR PERIODS OF SIXTY MINUTES, UNIVERSAL TIME

TABLE 33 VICTORIA

Z = 53,000 GAMMA +

NOVEMBER

1971

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	91	95	96	94	96	95	91	91	91	91	90	92	90	91	93	93	89	87	86	86	89	87	89	91
2	88	89	89	89	89	90	90	89	87	87	86	87	87	87	88	91	91	87	86	84	87	86	86	83	88
3 Q	89	87	88	89	90	90	90	92	90	90	87	88	84	85	87	89	89	90	85	86	87	86	87	86	88
4	87	82	86	85	87	87	87	87	88	86	87	85	86	86	84	88	91	87	89	81	82	86	87	86	86
5	97	86	87	87	89	88	89	91	90	90	85	86	86	81	82	86	87	79	73	71	76	83	82	89	85
6	92	91	91	89	89	89	89	90	90	90	91	90	90	89	89	91	92	88	81	80	87	89	91	91	89
7	95	93	94	94	96	99	98	98	93	93	92	90	90	88	88	94	96	96	92	92	93	93	96	97	94
8	96	94	94	94	93	92	91	91	91	91	91	90	91	89	89	92	91	85	81	83	86	87	91	93	90
9	100	99	99	96	95	94	94	91	92	90	91	90	89	91	94	97	98	96	93	90	91	92	95	96	94
10	98	97	97	96	95	93	92	91	90	90	91	90	90	91	90	93	92	87	82	76	77	78	85	84	89
11	99	90	100	110	106	102	100	98	98	99	96	96	95	96	94	96	96	93	89	86	92	99	100	101	97
12	102	101	101	101	98	98	89	81	89	91	93	92	92	92	92	94	96	93	89	84	85	89	94	95	93
13	98	99	97	97	97	95	94	93	90	90	91	94	92	93	94	93	94	94	92	89	89	89	93	93	93
14 Q	95	94	95	95	93	92	93	91	91	90	90	90	90	91	90	92	93	92	89	85	85	84	88	89	91
15 Q	94	93	94	94	93	92	91	91	90	90	89	88	90	89	89	91	93	93	91	87	86	88	90	91	91
16 Q	93	93	93	94	96	93	95	92	92	90	91	89	91	89	91	93	94	91	90	89	89	91	92	92	92
17 Q	96	93	93	91	90	92	92	91	91	89	90	90	89	90	89	90	93	92	89	86	82	85	87	90	90
18	90	88	89	94	100	98	95	94	94	92	91	90	89	86	89	87	89	89	88	86	87	89	90	89	91
19	91	92	90	89	89	89	88	89	88	88	87	87	86	84	78	72	72	78	79	81	81	87	89	89	85
20	94	92	92	92	91	92	92	94	93	93	93	94	94	94	91	91	90	89	88	86	86	87	89	91	91
21	93	91	91	91	90	94	94	93	91	84	69	66	73	72	78	85	89	89	90	92	93	93	94	92	87
22 D	96	101	101	100	98	100	98	85	78	40	63	64	73	74	71	67	65	71	70	74	76	88	100	105	82
23 D	112	114	117	131	117	107	115	68	88	93	93	85	75	61	74	74	86	91	84	95	99	98	119	115	96
24 D	123	126	128	117	118	100	94	76	75	79	88	93	85	76	76	81	91	97	95	97	101	105	112	117	98
25 D	122	121	124	116	118	116	100	39	57	51	30	32	28	31	33	45	66	86	103	102	98	98	100	106	80
26 D	110	108	111	110	110	101	90	94	69	80	91	78	78	93	98	100	102	102	101	99	98	98	100	100	97
27	103	102	102	101	102	100	99	98	97	94	94	94	94	94	95	97	100	99	94	91	91	93	97	100	97
28	105	105	103	103	102	101	100	93	93	95	93	77	79	89	94	100	102	102	97	90	91	94	97	98	96
29	100	100	103	102	102	100	99	98	97	95	94	96	95	94	94	96	98	95	90	86	90	91	95	94	96
30	93	94	95	95	96	96	98	95	93	90	91	91	92	88	88	92	94	94	94	90	89	88	90	93	92
MEAN	97	97	98	98	97	96	94	89	89	87	87	86	86	85	86	88	91	90	88	87	88	90	93	94	91

RECORD OF OBSERVATIONS AT VICTORIA MAGNETIC OBSERVATORY 1971

HORIZONTAL INTENSITY

MEAN VALUES FOR PERIODS OF SIXTY MINUTES, UNIVERSAL TIME

TABLE 34 VICTORIA

H = 18,500 GAMMA +

DECEMBER

1971

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	478	478	481	480	478	474	471	473	477	477	474	484	484	484	484	486	492	486	478	471	467	468	478	483	479
2	490	493	492	491	489	484	484	485	485	487	486	483	487	491	486	480	486	484	474	470	469	468	478	486	484
3	487	485	486	485	482	482	479	477	475	463	472	474	477	478	484	482	481	463	463	455	461	468	474	482	476
4	487	484	488	486	482	479	485	478	479	481	478	479	482	482	485	484	486	482	478	474	470	467	476	482	481
5	491	494	494	489	488	484	484	477	479	481	479	482	484	486	486	487	488	486	476	466	464	469	477	486	482
6 Q	487	489	488	485	488	488	489	487	489	487	491	491	493	493	493	492	487	483	476	469	467	473	482	487	486
7 Q	491	490	490	490	489	490	488	485	484	483	487	487	488	490	489	487	485	482	474	470	469	471	480	486	484
8 Q	493	488	492	493	491	489	493	490	492	492	496	495	493	497	497	498	497	491	484	475	476	482	494	504	491
9	511	504	499	506	502	501	495	493	491	498	499	494	492	495	494	496	492	486	477	472	464	466	475	475	491
10 Q	488	492	493	491	489	487	488	489	487	488	491	489	489	488	486	490	493	491	481	476	472	477	482	488	487
11	495	496	496	494	493	491	492	488	490	489	491	495	495	497	496	492	503	505	490	483	482	474	475	481	491
12	490	492	490	492	492	491	489	485	487	488	489	490	489	493	492	493	482	483	476	471	464	469	450	456	483
13	469	474	468	470	479	481	480	476	488	467	475	477	486	483	488	481	491	483	469	455	453	458	463	479	475
14 Q	482	486	487	488	484	480	480	479	480	483	485	487	488	484	482	482	482	478	473	471	469	474	479	488	481
15	488	485	488	486	489	489	488	489	483	482	483	487	489	486	485	488	484	477	472	468	468	475	482	489	483
16	491	491	492	489	487	487	486	487	485	484	488	491	490	488	487	485	483	483	480	484	475	479	470	472	485
17 D	486	446	451	463	450	464	450	445	431	465	451	470	477	479	492	485	394	306	322	319	388	410	427	444	434
18 D	448	453	458	461	455	459	461	461	452	456	454	448	461	462	452	459	466	462	454	450	452	454	453	455	456
19	459	461	460	456	455	450	447	432	425	437	456	474	463	470	467	470	474	461	457	456	448	449	456	460	456
20	462	468	468	466	466	465	466	465	466	468	468	472	473	474	474	474	470	465	455	449	445	442	454	468	464
21	473	478	476	474	474	473	471	473	473	475	474	476	477	481	481	480	480	480	473	452	429	444	459	469	471
22 D	477	476	463	459	473	471	469	467	469	467	470	475	462	470	473	487	476	474	453	454	446	456	461	468	467
23	475	469	470	471	468	478	474	469	463	474	475	475	468	475	480	488	477	464	459	443	444	453	463	474	469
24	479	483	473	470	476	474	479	479	475	477	480	479	481	481	493	492	490	487	476	465	453	455	470	476	477
25	474	480	477	474	469	476	474	475	476	476	477	480	483	485	482	484	488	493	483	470	461	464	471	471	477
26	459	467	462	468	459	474	470	474	481	477	475	480	479	482	483	485	488	490	474	459	446	446	454	459	470
27	470	465	464	468	472	469	472	467	474	472	471	475	476	478	479	486	484	484	477	469	464	465	468	476	473
28	483	493	483	484	480	481	478	478	480	482	483	482	485	486	489	490	490	492	481	472	460	458	464	478	480
29 D	488	485	482	474	467	455	452	457	455	457	461	465	462	469	485	483	487	489	486	480	478	479	479	474	473
30 D	460	463	472	472	476	465	468	461	454	486	472	470	476	471	475	480	473	481	476	464	456	462	464	469	469
31	476	482	481	471	477	471	468	472	475	477	475	480	481	481	481	483	483	481	469	461	468	471	470	476	475
MEAN	480	480	479	479	478	477	476	475	474	477	478	480	481	483	484	485	482	476	468	461	459	463	469	476	476

DECLINATION

MEAN VALUES FOR PERIODS OF SIXTY MINUTES, UNIVERSAL TIME

TABLE 35 VICTORIA

D = 22 DEG 00.0 MIN EAST +

DECEMBER 1971

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	
	T0 01	T0 02	T0 03	T0 04	T0 05	T0 06	T0 07	T0 08	T0 09	T0 10	T0 11	T0 12	T0 13	T0 14	T0 15	T0 16	T0 17	T0 18	T0 19	T0 20	T0 21	T0 22	T0 23	T0 24		
JAY																										
1	19.2	19.6	19.8	20.2	20.3	20.5	20.4	20.3	20.9	21.1	19.5	21.1	22.7	22.6	22.9	22.1	22.7	22.1	20.2	20.2	19.0	19.4	19.4	19.2	20.6	
2	19.8	20.2	20.8	20.9	21.0	20.7	20.4	20.4	20.2	20.2	20.7	20.9	21.1	22.4	21.7	19.6	21.7	22.1	22.0	21.2	20.2	18.9	17.7	17.8	20.5	
3	19.5	20.0	20.4	19.8	19.9	20.5	20.2	18.3	23.0	23.9	23.8	21.6	21.1	19.8	20.8	21.8	22.9	21.2	20.1	20.1	19.6	18.1	19.0	18.7	20.6	
4	18.7	20.0	20.4	20.5	20.3	20.4	20.7	20.6	20.1	20.5	21.0	20.6	21.9	21.4	20.7	21.9	22.3	21.9	21.4	20.3	19.6	19.2	19.1	18.6	20.5	
5	19.7	19.6	20.7	20.3	20.8	20.4	22.0	20.9	20.1	19.4	18.6	18.4	20.9	20.5	21.0	20.6	21.6	21.4	21.2	20.4	19.7	18.6	18.6	18.8	20.2	
6 Q	19.5	19.8	20.2	20.7	21.7	21.3	19.9	19.6	19.6	19.8	19.6	19.7	19.7	19.7	20.0	20.7	20.9	22.4	23.3	22.7	21.2	19.5	18.7	18.3	18.1	20.3
7 Q	19.4	19.9	20.5	21.2	21.4	21.3	20.6	20.4	20.2	20.0	20.2	19.9	20.2	20.5	20.7	20.9	22.3	22.7	22.2	20.8	19.5	19.1	18.5	17.9	20.4	
8 Q	18.8	19.2	20.0	20.7	20.9	21.1	20.3	20.4	20.2	20.2	19.9	20.6	20.6	19.3	20.7	21.7	23.1	23.4	22.9	22.1	20.8	18.7	17.7	17.5	20.4	
9	18.3	19.4	19.7	19.7	21.3	20.0	20.1	20.6	20.8	19.5	17.7	21.8	20.8	21.2	21.0	21.3	22.6	24.3	22.7	22.2	21.0	20.3	19.0	18.5	20.6	
10 Q	19.1	19.9	20.3	20.6	20.9	21.1	21.1	20.8	20.7	20.5	19.7	20.2	20.4	20.9	18.8	19.7	22.0	23.7	22.9	21.4	20.2	19.5	18.4	18.1	20.5	
11	19.0	19.0	19.6	20.3	20.4	20.7	20.8	20.5	20.5	20.5	20.8	20.8	20.5	20.3	20.8	20.9	20.5	22.6	22.5	20.0	19.5	17.7	18.2	18.2	20.2	
12	19.0	20.0	20.2	20.4	20.9	20.4	20.8	20.4	20.2	20.2	19.7	20.0	19.8	19.9	20.2	20.5	19.5	19.2	20.8	19.0	20.2	18.3	17.3	16.2	19.7	
13	17.7	18.6	19.8	20.1	21.3	21.0	21.1	21.0	25.9	25.2	23.1	21.0	21.0	21.3	20.1	19.1	21.0	22.1	20.6	19.8	19.2	17.3	17.6	17.8	20.5	
14 Q	19.5	20.1	20.2	20.6	20.5	20.3	20.2	21.1	19.9	19.8	19.7	20.6	19.6	21.5	21.7	22.0	22.3	21.7	21.0	20.3	19.9	19.2	19.0	18.4	20.4	
15	18.5	19.4	19.5	20.0	20.5	20.1	20.3	19.9	20.4	20.3	20.8	20.4	20.7	21.2	20.8	22.2	22.6	24.0	22.0	20.8	19.5	18.6	18.6	19.1	20.4	
16	19.0	20.2	20.1	20.4	20.3	20.3	19.7	20.1	20.4	20.1	19.6	19.9	19.8	20.6	20.3	21.1	22.0	21.7	22.0	21.2	19.7	18.2	16.6	14.4	19.9	
17 D	16.6	18.8	23.7	23.3	31.5	26.5	22.4	26.6	25.8	19.3	22.5	15.9	19.9	21.1	21.6	23.7	24.3	1.1	20.7	13.0	15.6	15.3	16.2	18.4	20.2	
18 D	19.7	20.7	21.3	22.0	22.7	21.8	20.9	20.0	19.8	18.6	16.6	15.1	21.6	19.8	20.5	21.4	22.5	22.6	22.1	22.0	21.5	20.7	20.8	20.6	20.6	
19	20.9	21.3	21.7	21.9	21.3	20.5	22.0	25.6	27.1	23.4	27.2	29.0	20.4	19.5	20.0	22.2	22.7	20.5	19.1	21.5	21.7	20.9	20.2	19.9	22.1	
20	20.7	20.7	21.0	21.1	20.8	20.7	20.4	20.3	19.9	19.8	19.9	19.9	19.6	20.3	20.5	21.5	21.8	23.2	21.5	21.7	20.4	18.4	18.0	18.2	20.4	
21	19.7	20.3	21.1	21.2	21.1	20.9	20.2	20.0	19.9	19.7	18.7	19.1	20.1	19.8	17.8	20.9	21.5	23.2	22.8	21.9	16.7	14.1	17.1	18.3	19.8	
22 D	19.9	20.6	20.7	23.5	22.6	22.2	24.8	22.6	14.7	18.6	19.9	20.5	19.4	15.8	19.5	18.7	19.5	21.8	20.9	20.3	19.9	18.3	17.6	18.4	20.0	
23	19.5	20.0	20.9	21.9	22.8	22.8	23.0	21.5	20.7	18.5	20.0	19.6	15.5	15.0	18.8	21.3	21.6	21.9	22.6	23.1	21.1	19.9	18.6	19.3	20.4	
24	19.3	19.7	20.9	21.5	21.2	21.8	23.0	20.9	21.1	20.3	18.0	21.4	19.5	16.6	18.2	20.9	22.6	23.7	23.9	23.0	21.7	19.5	18.8	17.9	20.6	
25	19.3	19.9	20.4	21.0	23.6	21.9	21.2	21.1	20.3	20.2	19.2	19.6	19.8	19.6	17.0	18.2	20.2	22.1	22.5	22.1	21.2	19.2	18.0	18.7	20.3	
26	18.9	19.7	20.4	20.9	22.8	24.3	21.8	21.1	19.8	20.4	19.9	18.4	18.8	20.2	20.3	20.3	19.6	19.1	19.7	19.4	20.0	18.8	18.5	19.1	20.1	
27	19.5	20.8	21.6	21.9	22.2	23.1	23.1	22.5	19.4	23.6	22.6	21.3	20.5	19.9	20.1	20.5	21.4	22.5	23.0	22.2	20.9	19.8	18.8	18.5	21.2	
28	19.4	20.0	20.4	21.1	20.8	20.2	21.2	20.6	20.1	20.3	20.1	20.4	20.0	20.3	20.6	20.9	21.8	22.9	23.0	22.3	20.7	19.4	17.8	17.8	20.5	
29 D	18.7	19.4	20.0	20.2	20.3	21.8	23.3	25.8	26.2	26.5	17.0	22.6	22.7	13.6	14.3	19.5	21.2	22.1	23.2	23.0	21.6	20.0	17.8	18.3	20.8	
30 D	16.9	16.9	18.0	19.6	19.0	19.1	20.6	21.9	20.6	20.9	22.3	19.2	20.7	21.3	20.8	20.2	20.3	22.1	22.0	21.7	20.6	18.6	18.0	18.0	20.0	
31	19.3	20.7	20.8	23.2	22.5	21.2	20.8	20.9	20.0	19.5	19.6	19.9	20.0	19.9	20.0	19.8	20.6	21.4	21.3	20.2	19.0	17.8	17.5	18.6	20.2	
MEAN	19.1	19.8	20.5	21.0	21.5	21.3	21.2	21.2	20.9	20.7	20.3	20.3	20.3	19.9	20.1	20.8	21.7	21.5	21.8	20.9	20.0	18.7	18.3	18.3	20.4	

VERTICAL INTENSITY

MEAN VALUES FOR PERIODS OF SIXTY MINUTES, UNIVERSAL TIME

TABLE 36 VICTORIA

Z = 53,000 GAMMA +

DECEMBER

1971

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	TO 25	TO 26	TO 27	TO 28	TO 29	TO 30	TO 31	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																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																															
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1	97	97	98	99	100	100	100	101	99	98	93	91	90	93	92	96	99	94	91	91	89	91	92	95	95	2	96	96	96	95	95	95	94	94	96	95	94	94	95	95	93	93	96	93	93	93	93	91	91	89	91	92	94	94	3	95	95	95	97	98	97	98	87	72	83	82	89	93	88	90	95	97	89	85	80	86	90	92	93	90	4	97	95	95	95	95	97	100	99	101	98	96	95	94	93	95	96	95	93	92	90	91	90	95	94	95	5	98	96	96	93	94	93	93	93	94	93	90	86	91	92	93	94	96	93	90	88	90	91	93	95	93	6 Q	96	96	95	94	95	94	94	93	94	94	55	94	92	91	92	93	93	95	92	91	91	92	94	95	94	7 Q	97	95	96	94	93	93	92	93	93	93	93	94	94	93	92	95	97	96	93	94	95	97	98	95	94	8 Q	98	95	96	96	94	94	93	93	94	92	93	91	91	89	87	89	91	89	88	87	87	88	88	88	91	9	91	89	88	90	90	87	88	87	89	87	70	77	85	87	89	89	90	90	86	86	86	90	91	90	87	10 Q	96	96	95	93	93	92	92	91	90	90	90	90	90	91	90	90	94	94	89	88	90	90	92	92	92	11	95	95	94	94	93	93	92	92	92	92	90	92	91	91	89	90	87	82	79	79	82	81	84	88	89	12	93	93	95	97	97	97	96	95	94	94	93	93	91	93	93	93	91	85	85	88	90	90	83	93	92	13	103	103	104	105	105	103	100	97	91	73	81	83	81	86	89	81	82	77	77	81	86	91	94	96	90	14 Q	97	97	95	97	95	93	93	93	93	91	91	92	88	86	91	93	92	87	87	89	90	90	90	92	92	15	91	93	94	96	97	95	96	95	93	94	93	93	93	92	92	92	93	93	89	87	87	91	94	91	93	16	93	93	91	94	92	93	93	93	91	93	92	92	92	92	91	93	95	94	92	91	85	86	83	89	91	17 D	98	99	116	114	119	115	108	97	53	54	68	72	81	93	98	87	52	-16	18	61	96	98	109	114	83	18 D	114	114	114	116	117	117	115	112	109	107	105	70	62	92	96	98	106	105	106	107	109	110	107	107	105	19	107	105	104	103	103	103	103	92	80	72	38	34	65	83	94	98	99	97	97	98	96	98	100	101	90	20	102	100	100	100	100	100	100	100	100	100	99	99	98	97	97	98	98	100	99	99	99	98	101	102	99	21	104	103	100	99	99	98	97	99	97	98	95	94	56	95	92	90	92	95	94	94	103	103	101	97	22 D	102	103	102	104	105	103	100	100	85	68	72	79	73	67	76	89	87	90	91	96	93	97	100	102	91	23	106	105	104	104	106	104	101	100	96	93	93	96	90	80	87	96	94	98	96	95	96	99	104	105	98	24	106	106	103	104	104	105	103	99	99	97	92	88	94	91	92	97	100	100	101	98	99	100	103	102	99	25	108	107	106	105	104	105	103	102	101	100	100	101	101	101	97	96	99	100	99	99	96	96	97	99	101	26	104	107	109	110	110	108	105	102	92	96	99	97	98	100	102	103	102	99	95	97	98	100	104	109	102	27	113	109	110	112	108	107	103	102	93	90	96	97	98	100	101	105	106	105	102	99	95	94	95	97	102	28	102	101	101	102	101	102	101	100	99	99	99	99	99	99	99	100	102	105	99	96	95	94	94	97	99	29 D	101	101	101	104	104	107	114	113	89	68	52	28	36	62	77	91	99	102	100	97	91	90	89	89	88	30 D	96	105	113	113	118	119	123	113	96	77	82	70	72	90	96	100	100	105	103	99	95	97	98	99	99	31	103	103	104	105	103	103	103	103	102	99	101	100	100	99	100	101	104	104	102	101	101	100	96	98	101
MEAN	100	100	100	101	101	100	100	98	92	90	88	86	88	90	92	94	94	91	91	92	93	94	95	97	94																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																														

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

TABLE 37 VICTORIA		H = 18,500 GAMMA +											1971			
U.T.	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	YEAR	SUMMER	EQUINOX	WINTER
0- 1	461	459	467	475	478	479	481	487	481	477	479	480	475	481	475	470
1- 2	464	462	469	474	473	480	479	480	475	474	480	480	474	478	473	472
2- 3	465	462	472	471	472	480	481	480	473	474	481	479	474	478	473	472
3- 4	465	463	471	469	471	479	478	478	472	476	480	479	473	477	472	472
4- 5	463	464	470	467	472	479	479	478	474	476	479	478	473	477	472	471
5- 6	463	467	471	466	472	479	480	478	477	477	480	477	474	477	473	472
6- 7	461	465	471	471	476	480	482	481	476	478	478	476	475	480	474	470
7- 8	460	465	472	469	476	479	483	482	477	477	480	475	474	480	474	470
8- 9	458	466	471	472	477	481	484	483	479	481	479	474	475	481	476	469
9-10	460	466	473	473	479	481	486	486	479	481	478	477	477	483	477	470
10-11	461	468	476	474	481	481	486	487	481	483	482	478	478	484	479	472
11-12	464	470	477	473	477	482	486	486	481	485	482	480	479	483	479	474
12-13	466	471	478	476	480	484	487	486	484	486	484	481	480	484	481	476
13-14	467	472	478	477	482	485	490	489	486	485	485	483	481	487	482	477
14-15	466	470	479	475	478	485	491	489	482	484	485	484	481	486	480	476
15-16	466	469	477	474	476	481	486	483	476	479	481	485	478	482	477	475
16-17	464	466	471	466	468	476	478	473	465	472	478	482	472	474	469	473
17-18	457	461	461	455	462	470	469	462	457	465	473	476	464	466	460	467
18-19	448	453	454	449	456	465	460	456	452	462	465	468	457	459	454	459
19-20	442	448	444	449	456	461	459	457	453	462	459	461	454	458	452	453
20-21	440	442	442	449	459	460	462	460	460	466	459	459	455	460	454	450
21-22	445	446	444	451	464	462	467	466	467	471	461	463	459	465	458	454
22-23	452	451	452	455	468	467	472	474	473	476	469	469	465	470	464	460
23-24	457	456	462	462	473	475	476	480	477	477	474	476	470	476	470	466
MEAN	459	462	467	466	472	476	479	477	473	476	476	476	472	476	471	468

RECORD OF OBSERVATIONS AT VICTORIA MAGNETIC OBSERVATORY 1971

MEAN VALUES OF MAGNETIC ELEMENTS

DECLINATION (MINUTES) (ALL DAYS)

TABLE 38	VICTORIA												1971			
	D = 22 DEG 00.0 MIN EAST +												YEAR	SUMMER	EQUINOX	WINTER
U.T.	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	YEAR	SUMMER	EQUINOX	WINTER
0- 1	21.8	21.1	19.8	18.8	18.0	17.4	17.6	18.0	19.5	20.0	19.3	19.1	19.2	17.7	19.5	20.3
1- 2	22.5	21.6	20.4	19.3	19.3	18.5	19.1	19.0	20.3	20.2	19.9	19.8	20.0	19.0	20.1	21.0
2- 3	23.2	22.2	21.0	20.5	20.3	19.7	20.2	19.7	20.7	21.4	20.6	20.5	20.8	20.0	20.9	21.6
3- 4	23.8	23.2	21.8	21.2	22.0	20.8	20.7	20.5	20.9	21.2	21.0	21.0	21.5	21.0	21.3	22.2
4- 5	23.9	23.2	22.7	22.3	21.9	21.5	21.4	21.1	21.1	21.4	21.6	21.5	22.0	21.5	21.9	22.5
5- 6	24.1	23.4	22.8	22.6	21.8	21.7	21.0	21.3	21.5	21.4	21.4	21.3	22.0	21.4	22.1	22.5
6- 7	24.3	23.2	23.1	23.4	22.9	21.7	21.4	21.8	21.4	21.4	21.2	21.2	22.2	21.9	22.3	22.5
7- 8	24.0	23.6	24.0	22.9	22.3	21.9	21.2	21.3	21.4	20.5	20.7	21.2	22.1	21.7	22.2	22.4
8- 9	23.2	23.5	24.5	23.3	22.4	21.7	21.1	21.1	20.6	20.8	21.1	20.9	22.0	21.6	22.3	22.2
9-10	22.9	23.4	24.0	23.0	22.3	21.8	21.0	21.4	21.5	20.7	21.2	20.7	22.0	21.6	22.3	22.0
10-11	23.6	23.1	24.2	23.1	22.1	22.4	20.9	21.7	22.6	20.6	20.2	20.3	22.1	21.8	22.6	21.8
11-12	24.3	23.4	23.1	23.5	22.8	23.2	21.6	22.5	22.7	21.4	20.4	20.3	22.4	22.5	22.7	22.1
12-13	24.1	23.5	23.6	23.5	23.7	23.2	23.1	22.7	22.7	21.5	20.2	20.3	22.7	23.2	22.8	22.0
13-14	23.9	23.6	23.1	24.3	24.8	24.3	24.2	23.6	23.5	20.9	20.7	19.9	23.1	24.2	22.9	22.0
14-15	23.3	22.6	23.8	25.4	25.7	25.9	26.0	25.8	24.3	21.9	21.0	20.1	23.8	25.8	23.9	21.7
15-16	24.0	23.8	25.2	26.1	27.0	27.0	27.5	27.4	25.5	22.9	21.4	20.8	24.9	27.2	24.9	22.5
16-17	25.5	24.7	26.8	26.4	27.3	27.1	28.3	28.0	26.3	23.7	22.5	21.7	25.7	27.6	25.8	23.6
17-18	26.1	25.3	26.7	26.4	25.9	26.4	27.2	26.5	24.7	22.9	23.1	21.5	25.2	26.5	25.2	24.0
18-19	25.7	24.5	25.5	24.7	23.7	23.8	24.0	22.5	21.8	21.1	22.3	21.8	23.5	23.5	23.3	23.6
19-20	24.4	23.3	23.9	22.7	21.0	21.4	20.0	19.0	19.0	18.8	20.7	20.9	21.3	20.4	21.1	22.3
20-21	22.9	21.8	21.7	20.9	19.1	19.1	17.3	17.0	17.5	17.9	19.3	20.0	19.5	18.1	19.5	21.0
21-22	21.8	20.7	20.1	19.8	18.1	17.5	16.1	16.0	17.0	17.8	18.3	18.7	18.5	16.9	18.7	19.9
22-23	21.5	20.2	19.3	18.6	17.2	16.7	15.9	16.0	17.6	18.3	18.3	18.3	18.2	16.4	18.5	19.6
23-24	21.5	20.4	18.7	18.3	17.3	16.5	16.5	16.6	18.4	18.9	18.5	18.3	18.3	16.7	18.6	19.7
MEAN	23.6	22.9	22.9	22.5	22.0	21.7	21.4	21.3	21.4	20.7	20.6	20.4	21.8	21.6	21.9	21.9

MEAN VALUES OF MAGNETIC ELEMENTS

VERTICAL INTENSITY (GAMMAS) (ALL DAYS)

TABLE 39 VICTORIA	Z = 53,000 GAMMA +												1971			
	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	YEAR	SUMMER	EQUINOX	WINTER
0- 1	115	115	110	119	119	113	110	107	104	98	97	100	109	112	108	107
1- 2	114	115	111	122	124	116	112	107	103	98	97	100	110	115	109	107
2- 3	115	115	113	125	126	118	114	108	105	101	98	100	111	117	111	107
3- 4	115	116	114	121	124	116	110	108	104	100	98	101	111	115	110	108
4- 5	114	116	115	120	118	114	107	107	103	100	97	101	109	112	110	107
5- 6	115	116	114	119	116	111	105	106	100	97	96	100	108	110	108	107
6- 7	113	113	113	116	110	109	104	102	98	96	94	100	106	106	106	105
7- 8	111	113	110	112	105	105	102	100	96	94	89	98	103	103	103	103
8- 9	108	111	107	110	104	103	101	96	91	91	89	92	100	101	100	100
9-10	102	108	102	104	102	100	99	95	87	88	87	90	97	99	95	97
10-11	102	107	101	100	96	96	98	93	87	86	87	88	95	96	94	96
11-12	103	106	98	97	95	95	96	92	84	85	86	86	94	95	91	95
12-13	104	104	96	97	101	96	97	93	88	84	86	88	94	97	91	96
13-14	103	104	97	97	103	96	99	94	91	84	85	90	95	98	92	96
14-15	101	99	99	99	100	96	99	97	92	88	86	92	96	98	95	95
15-16	101	100	102	101	99	96	98	97	91	90	88	94	97	98	96	96
16-17	105	104	103	101	98	95	94	94	90	91	91	94	97	95	96	99
17-18	106	102	100	97	95	92	87	86	85	88	90	91	93	90	93	97
18-19	106	99	96	95	91	87	81	79	82	84	88	91	90	85	89	96
19-20	106	97	92	95	90	86	78	77	82	83	87	92	89	83	88	96
20-21	106	99	93	97	94	87	80	80	86	85	88	93	91	85	90	97
21-22	108	103	96	100	100	90	84	86	90	89	90	94	94	90	94	99
22-23	111	106	101	105	104	96	91	92	95	93	93	95	99	96	99	101
23-24	112	110	105	112	111	104	99	99	98	94	94	97	103	103	102	103
MEAN	108	107	104	107	105	101	98	96	93	91	91	94	100	100	99	100

RECORD OF OBSERVATIONS AT VICTORIA MAGNETIC OBSERVATORY 1971

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

TABLE 40	VICTORIA												H = 18,500 GAMMA +				1971
	U.T.	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	YEAR	SUMMER	EQUINOX	WINTER
0- 1	469	465	472	494	470	478	485	492	482	485	485	488	480	481	483	477	
1- 2	470	472	476	475	470	479	482	481	477	486	486	489	479	478	479	479	
2- 3	470	474	478	477	475	481	482	480	474	486	488	490	480	480	479	481	
3- 4	470	473	478	475	475	480	483	481	476	487	488	489	479	480	479	480	
4- 5	469	471	477	475	475	481	482	482	478	487	487	488	479	480	479	479	
5- 6	470	471	477	476	475	481	483	483	478	486	485	487	479	481	479	478	
6- 7	470	473	478	477	477	480	484	485	476	487	486	488	480	482	480	479	
7- 8	470	472	479	478	478	480	485	485	478	487	485	486	480	482	481	478	
8- 9	469	471	479	480	479	482	487	486	480	489	487	486	481	484	482	478	
9-10	470	471	482	482	481	486	487	487	479	489	487	487	482	485	483	479	
10-11	471	474	482	486	480	487	488	488	482	492	487	490	484	486	486	481	
11-12	473	475	485	485	482	485	489	489	482	492	488	490	485	486	486	482	
12-13	473	475	484	485	481	489	492	489	482	493	490	490	485	488	486	482	
13-14	471	475	483	486	482	490	494	493	483	492	489	490	486	490	486	481	
14-15	475	475	484	485	484	490	495	491	479	489	489	489	485	490	484	482	
15-16	477	472	485	484	483	490	488	483	471	484	489	490	483	486	481	482	
16-17	476	471	479	478	478	486	476	470	461	476	485	489	477	478	474	480	
17-18	468	467	469	466	472	479	467	457	454	469	481	485	469	469	465	475	
18-19	459	462	461	459	467	471	461	451	448	466	475	478	463	463	459	469	
19-20	452	459	454	460	466	467	462	452	447	469	468	472	461	462	458	463	
20-21	451	455	452	461	466	465	467	458	455	473	464	471	461	464	460	460	
21-22	456	459	453	461	463	469	471	467	466	478	467	475	465	468	465	464	
22-23	462	464	460	460	467	474	474	474	476	482	477	483	471	472	470	472	
23-24	468	469	469	463	470	478	478	480	483	486	483	491	476	477	475	478	
MEAN	468	469	474	475	475	480	481	479	473	484	483	486	477	479	477	477	

MEAN VALUES OF MAGNETIC ELEMENTS

DECLINATION (MINUTES) (QUIET DAYS)

TABLE 41 VICTORIA		D = 22 DEG 00.0 MIN EAST +												1971		
U.T.	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	YEAR	SUMMER	EQUINOX	WINTER
0- 1	22.0	21.5	19.4	19.7	18.2	17.9	18.5	19.4	20.5	19.9	19.4	19.3	19.7	18.5	19.9	20.5
1- 2	22.6	22.0	20.1	20.1	19.4	19.1	19.9	20.9	20.9	19.7	19.7	19.8	20.3	19.8	20.2	21.0
2- 3	22.8	22.6	20.9	20.7	20.2	19.9	20.9	20.9	21.1	20.0	20.1	20.2	20.9	20.5	20.7	21.4
3- 4	23.1	22.9	21.4	21.3	21.0	20.7	21.1	20.8	20.9	20.2	20.3	20.8	21.2	20.9	21.0	21.8
4- 5	23.2	23.1	21.9	21.8	21.3	20.8	20.8	20.7	20.8	20.3	20.4	21.1	21.3	20.9	21.2	21.9
5- 6	23.2	23.4	21.9	22.3	21.7	21.2	20.7	20.9	20.6	20.2	20.4	21.0	21.4	21.0	21.2	22.0
6- 7	23.3	22.9	22.3	21.9	21.5	21.7	21.0	20.5	20.7	20.3	20.3	20.4	21.4	21.2	21.3	21.7
7- 8	23.3	23.4	22.6	22.3	21.6	22.1	21.0	20.4	20.8	20.2	20.2	20.5	21.5	21.3	21.5	21.8
8- 9	23.0	23.5	23.3	22.8	21.3	21.2	21.0	20.8	21.5	20.0	20.3	20.1	21.6	21.1	21.9	21.8
9-10	23.1	23.3	23.4	22.5	21.7	21.6	21.2	21.1	21.5	20.1	20.4	20.1	21.7	21.4	21.9	21.7
10-11	22.6	23.1	23.4	22.6	21.7	21.9	21.3	21.5	22.0	20.6	20.4	19.8	21.7	21.6	22.1	21.5
11-12	22.9	23.2	23.2	22.7	22.2	21.8	21.7	21.7	22.2	20.7	20.4	20.2	21.9	21.9	22.2	21.7
12-13	23.1	23.4	23.2	22.9	22.9	22.9	22.4	22.7	22.2	20.8	20.6	20.1	22.3	22.7	22.3	21.8
13-14	22.8	23.4	23.7	24.6	24.2	23.9	23.4	23.4	23.1	21.1	21.0	20.4	22.9	23.7	23.1	21.9
14-15	23.1	23.7	24.8	25.8	25.6	24.9	25.3	25.3	24.5	21.8	21.1	20.5	23.9	25.3	24.2	22.1
15-16	23.7	24.4	26.2	26.9	27.0	26.4	27.0	27.2	26.2	23.0	21.9	21.0	25.1	26.9	25.6	22.8
16-17	25.5	25.4	27.9	27.3	27.2	26.6	27.6	28.3	26.7	24.2	22.7	22.4	26.0	27.4	26.5	24.0
17-18	27.1	25.8	28.4	27.3	27.2	26.7	26.8	27.2	25.0	24.2	23.1	23.0	26.0	27.0	26.2	24.8
18-19	26.6	25.4	27.1	24.9	25.3	24.9	23.3	23.1	22.4	22.6	22.7	22.3	24.2	24.2	24.2	24.3
19-20	25.8	24.4	24.6	22.8	22.1	22.0	20.0	19.4	19.3	20.2	21.3	21.2	21.9	20.9	21.7	23.2
20-21	23.9	22.9	22.6	21.3	19.7	19.3	17.6	17.4	17.3	18.6	20.0	20.0	20.1	18.5	20.0	21.7
21-22	22.7	21.7	20.5	20.5	18.6	17.3	16.7	16.3	16.6	18.1	19.0	19.0	18.9	17.2	18.9	20.6
22-23	22.2	21.1	19.2	19.7	17.3	16.3	16.9	16.6	17.1	18.3	18.6	18.4	18.5	16.7	18.6	20.1
23-24	21.9	20.9	18.4	19.4	17.0	16.3	17.3	17.6	18.5	18.7	18.5	18.0	18.5	17.1	18.5	19.8
MEAN	23.5	23.2	22.9	22.6	21.9	21.6	21.4	21.4	21.4	20.6	20.5	20.4	21.8	21.6	21.9	21.9

RECORD OF OBSERVATIONS AT VICTORIA MAGNETIC OBSERVATORY 1971

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

TABLE 42 VICTORIA		Z = 53,000 GAMMA +												1971		
U.T.	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	YEAR	SUMMER	EQUINOX	WINTER
0- 1	110	111	108	108	112	109	101	105	100	93	93	97	104	107	102	103
1- 2	109	112	107	109	114	111	105	104	98	91	92	96	104	109	101	102
2- 3	110	111	108	111	115	111	104	103	98	92	93	95	104	108	102	102
3- 4	110	112	108	110	113	109	101	101	98	91	93	95	103	106	102	103
4- 5	110	110	107	110	110	108	99	98	98	91	92	94	102	104	102	102
5- 6	111	110	106	110	109	107	98	99	98	91	92	93	102	103	101	102
6- 7	110	110	106	109	109	107	98	98	99	90	92	93	102	103	101	101
7- 8	110	110	106	109	108	107	98	98	99	90	91	93	102	103	101	101
8- 9	110	108	107	108	107	106	98	97	93	90	91	93	101	102	101	101
9-10	109	109	105	108	108	104	98	97	97	90	90	92	101	102	100	100
10-11	108	108	104	107	107	102	97	97	96	90	89	92	100	101	99	99
11-12	107	107	104	105	107	103	98	97	95	89	89	92	99	101	98	99
12-13	108	107	104	102	108	104	98	97	94	89	89	91	99	102	97	99
13-14	107	108	103	99	107	107	101	99	95	88	89	90	99	104	96	99
14-15	108	107	105	101	107	106	102	100	97	89	89	90	100	104	98	99
15-16	111	109	107	104	106	104	100	100	98	92	91	92	101	103	100	101
16-17	113	109	105	105	100	101	96	95	98	92	92	93	100	98	100	102
17-18	113	108	102	101	95	96	87	85	93	89	92	92	96	91	96	101
18-19	110	105	95	95	88	91	78	77	88	83	89	90	91	84	90	99
19-20	109	101	91	93	85	90	77	75	84	81	87	90	88	82	87	97
20-21	103	99	89	93	86	87	83	79	87	83	86	91	89	84	88	95
21-22	104	100	90	93	90	89	86	87	90	86	87	91	91	88	90	96
22-23	105	104	92	97	95	92	89	92	94	88	89	92	94	92	93	98
23-24	105	106	95	99	103	98	95	98	95	88	90	92	97	99	94	98
MEAN	109	107	102	104	104	102	95	95	95	89	90	92	99	99	98	100

MEAN VALUES OF MAGNETIC ELEMENTS

HORIZONTAL INTENSITY (GAMMAS) (DISTURBED DAYS)

TABLE 43 VICTORIA

H = 18,500 GAMMA +

1971

U.T.	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	YEAR	SUMMER	EQUINOX	WINTER
0- 1	452	448	455	464	484	480	483	489	469	466	453	472	468	484	464	456
1- 2	456	447	462	461	473	480	481	475	466	461	460	465	466	477	463	457
2- 3	454	447	460	464	465	474	484	478	465	451	465	465	464	475	460	458
3- 4	456	451	455	458	469	476	480	466	454	455	465	466	463	473	456	460
4- 5	449	454	463	455	475	470	480	472	455	456	460	464	463	474	457	457
5- 6	447	463	461	457	466	472	482	474	462	454	471	463	464	474	459	461
6- 7	446	458	462	472	483	475	485	478	456	460	455	460	466	480	463	455
7- 8	445	454	459	459	468	475	483	480	463	467	464	458	465	477	462	455
8- 9	441	463	455	465	461	475	482	477	456	466	455	452	462	474	461	453
9-10	439	460	458	468	461	463	485	485	461	469	448	466	464	474	464	453
10-11	441	459	461	459	477	464	483	485	464	467	462	462	465	477	463	456
11-12	450	467	466	455	458	467	484	479	461	474	463	466	466	472	464	462
12-13	454	467	470	463	473	467	481	480	478	477	459	468	470	475	472	462
13-14	460	467	472	467	473	468	489	484	482	480	473	470	474	479	475	468
14-15	448	458	466	465	455	469	488	485	470	478	478	475	470	474	470	465
15-16	442	461	469	456	464	456	478	480	471	469	461	479	466	470	466	461
16-17	439	453	458	453	460	452	470	469	460	464	465	459	459	463	459	454
17-18	435	446	444	431	451	454	465	457	443	463	466	442	450	457	445	447
18-19	426	435	437	430	444	452	452	454	439	457	453	438	443	451	441	438
19-20	417	428	431	432	454	452	447	455	447	452	445	433	441	452	441	431
20-21	412	426	435	428	456	448	453	455	455	462	445	444	443	453	445	432
21-22	425	428	438	433	462	448	463	459	457	466	438	452	447	458	449	436
22-23	423	437	441	440	464	461	469	471	464	467	443	457	453	466	453	440
23-24	427	446	453	451	470	475	468	477	470	467	448	462	460	473	460	446
MEAN	441	451	456	454	465	466	476	474	461	465	458	460	460	470	459	453

RECORD OF OBSERVATIONS AT VICTORIA MAGNETIC OBSERVATORY 1971

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

TABLE 44 VICTORIA

D = 22 DEG 00.0 MIN EAST +

1971

U.T.	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	YEAR	SUMMER	EQUINOX	WINTER
0- 1	21.5	20.1	19.1	16.0	16.5	16.4	17.6	15.7	16.9	19.9	18.3	18.4	18.0	16.5	18.0	19.6
1- 2	22.4	21.0	19.6	18.5	19.1	17.9	19.0	16.4	20.3	19.6	20.9	19.3	19.5	18.1	19.5	20.9
2- 3	23.7	22.6	20.2	19.9	20.6	19.8	20.8	18.0	21.5	24.5	23.4	20.7	21.3	19.8	21.5	22.6
3- 4	25.2	25.5	22.4	19.6	25.5	20.7	21.1	21.2	19.4	23.9	23.8	21.7	22.5	22.2	21.3	24.0
4- 5	24.3	22.9	23.8	21.9	24.1	22.0	22.1	21.2	20.6	22.9	25.6	23.2	22.9	22.4	22.3	24.0
5- 6	24.6	24.6	22.8	21.9	23.5	21.7	21.6	19.9	24.9	23.5	24.7	22.3	23.0	21.7	23.3	24.0
6- 7	26.0	23.9	23.3	27.0	26.3	22.4	22.2	23.4	22.7	24.5	23.9	22.4	24.0	23.6	24.4	24.1
7- 8	25.7	24.7	24.1	24.7	23.8	21.1	22.1	22.3	22.3	21.0	21.7	23.4	23.1	22.3	23.0	23.9
8- 9	24.0	23.7	26.6	24.5	27.3	23.0	21.6	21.1	19.3	20.7	23.6	21.4	23.1	23.2	22.8	23.2
9-10	22.6	22.5	27.0	23.5	26.0	23.3	21.0	22.5	23.7	20.7	24.5	20.8	23.2	23.2	23.7	22.6
10-11	24.9	22.9	27.3	23.6	23.1	24.7	20.6	22.4	25.2	17.4	20.2	19.7	22.7	22.7	23.4	21.9
11-12	28.3	23.4	22.7	27.0	25.7	25.2	21.9	23.5	22.9	19.9	20.0	18.7	23.3	24.1	23.1	22.6
12-13	26.5	25.2	23.5	25.4	26.9	23.8	22.9	22.7	22.5	23.4	16.8	20.9	23.4	24.1	23.7	22.3
13-14	24.3	24.3	23.8	24.1	26.0	26.5	23.5	23.3	23.6	21.2	18.9	18.3	23.1	24.8	23.2	21.4
14-15	23.0	18.3	23.9	26.2	25.2	29.0	25.8	26.7	22.9	22.2	19.6	19.3	23.5	26.7	23.8	20.1
15-16	20.5	22.4	24.1	25.9	27.1	28.2	26.8	28.6	24.0	21.5	17.6	20.7	24.0	27.7	23.9	20.3
16-17	22.9	20.8	26.5	24.8	28.3	27.4	27.6	28.9	24.6	22.4	19.0	21.6	24.6	28.1	24.6	21.1
17-18	23.1	22.1	26.5	25.1	25.1	27.9	26.6	26.9	22.4	22.3	22.2	17.9	24.0	26.6	24.1	21.3
18-19	24.0	22.5	24.8	22.8	22.7	23.7	24.2	22.7	20.3	21.4	22.5	21.8	22.8	23.3	22.3	22.7
19-20	21.6	21.5	23.4	22.0	20.3	21.3	19.2	19.6	17.6	19.4	20.6	20.0	20.5	20.1	20.6	20.9
20-21	21.7	21.1	21.6	20.2	19.0	19.5	15.8	17.3	17.0	18.2	18.9	19.8	19.1	17.9	19.3	20.3
21-22	20.6	21.1	21.1	19.2	18.4	17.0	14.8	16.6	16.5	18.5	17.8	18.6	18.4	16.7	18.8	19.5
22-23	20.8	20.9	20.7	17.3	17.5	16.1	14.9	16.6	17.5	18.6	18.2	18.1	18.1	16.3	18.5	19.5
23-24	21.1	20.2	19.4	17.8	18.4	16.3	15.8	17.2	18.4	19.4	18.0	18.7	18.4	16.9	18.7	19.5
MEAN	23.5	22.4	23.3	22.5	23.2	22.3	21.2	21.4	21.1	21.1	20.9	20.3	21.9	22.0	22.0	21.8

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

TABLE 45 VICTORIA		Z = 53,000 GAMMA +												1971		
U.T.	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	YEAR	SUMMER	EQUINOX	WINTER
0- 1	121	132	112	137	131	121	110	109	110	106	113	102	117	118	116	117
1- 2	121	126	117	153	147	131	115	110	124	109	114	104	123	126	126	116
2- 3	123	130	121	158	153	136	120	119	137	115	116	109	128	132	133	120
3- 4	127	131	129	143	143	136	116	124	132	116	115	110	127	130	130	121
4- 5	125	130	130	136	124	132	110	123	126	114	112	113	123	122	127	120
5- 6	129	127	125	137	126	125	107	119	117	109	105	112	120	119	122	118
6- 7	121	119	124	124	103	117	104	114	108	105	99	112	112	110	115	113
7- 8	117	120	116	113	86	102	100	105	105	100	72	107	104	98	109	104
8- 9	106	115	106	114	92	101	100	93	80	90	73	86	96	97	98	95
9-10	83	100	89	101	83	91	101	93	82	87	69	75	88	92	90	82
10-11	81	96	83	93	54	78	99	91	80	72	73	76	81	81	82	82
11-12	90	99	82	80	49	70	97	91	59	62	70	64	76	77	71	81
12-13	91	96	78	84	79	72	95	93	68	62	68	65	79	85	73	80
13-14	86	98	86	87	82	64	96	95	81	79	67	81	83	84	83	83
14-15	78	78	94	90	66	73	94	100	81	89	70	89	83	83	89	79
15-16	68	74	100	94	61	75	92	102	83	91	73	93	84	83	92	77
16-17	84	80	98	93	78	77	91	97	83	95	82	89	87	86	92	84
17-18	93	83	96	86	80	80	84	89	80	94	89	77	86	83	89	86
18-19	98	84	96	91	86	83	80	82	81	91	91	84	87	83	90	89
19-20	103	89	95	98	92	88	75	79	87	88	93	92	90	84	92	94
20-21	108	96	100	101	102	93	80	81	91	90	94	97	94	89	96	99
21-22	116	106	104	108	112	101	88	88	94	93	97	98	101	97	100	104
22-23	124	111	109	119	120	111	98	94	100	97	106	101	108	106	106	111
23-24	130	117	114	141	131	121	105	99	104	100	109	102	114	114	115	115
MEAN	105	106	104	112	99	99	98	100	96	94	91	93	100	99	102	99

RECORD OF OBSERVATIONS AT VICTORIA MAGNETIC OBSERVATORY 1971

THREE-HOUR RANGE INDICES

VICTORIA 1971

TABLE 46

JANUARY

FEBRUARY

DAY	D		H		Z		K		DAY	D		H		Z		K	
1	1112	1210	3102	0010	1001	0000	3112	1210	1	1143	3322	2232	2432	0043	1311	2243	3432
2	3555	4422	3332	3322	1233	2211	3555	4422	2	3101	3122	3101	2223	1000	0001	3101	3223
3	3455	5333	2344	4444	2244	3232	3455	5444	3	0102	0010	2001	0010	0000	0000	2102	0010
4	3443	3321	3333	2321	1321	2120	3443	3321	4	0003	1211	0002	0102	0000	0000	0003	1212
5	1343	3222	2332	2212	0122	1001	2343	3222	5	1001	1000	0102	1000	0001	0000	1102	1000
6	0020	2200	0020	1000	0010	0000	0020	2200	6	1032	2210	1031	0001	0010	0000	1032	2211
7	0010	1000	0000	0000	0000	0000	0010	1000	7	0121	2222	0132	0112	0010	0000	0132	2222
8	0000	0000	0000	0000	0000	0000	0000	0000	8	1313	2222	2211	1122	0101	0011	2313	2222
9	0000	0000	0000	0000	0000	0000	0000	0000	9	2243	3212	2231	2201	1021	2100	2243	3212
10	0011	1231	0002	1021	0001	0001	0012	1231	10	0021	3432	1011	2322	0000	1101	1021	3432
11	1131	2211	0131	1301	0010	0101	1131	2311	11	0011	0321	0001	0112	0000	0101	0011	0322
12	0002	1000	0000	0100	0000	0010	0002	1100	12	1030	3321	0021	1111	0020	2100	1031	3321
13	0123	3101	0122	2102	0001	1000	0123	3102	13	0000	0000	0000	0000	0000	0000	0000	0000
14	0223	3302	2223	1211	0011	1001	2223	3312	14	0034	5422	0123	3332	0013	4211	0134	5432
15	0134	2111	1122	2101	0021	0000	1134	2111	15	2234	3543	2233	3434	1023	2332	2234	3544
16	1054	1111	2032	2001	0022	0000	2054	2111	16	5454	2422	5332	2322	5231	1212	5454	2422
17	0114	3311	0111	1100	0002	0000	0114	3311	17	3134	3112	3232	2213	1022	0000	3234	3213
18	0023	4433	0013	2222	0001	3311	0023	4433	18	1233	3221	1231	1113	0021	2001	1233	3223
19	2011	2342	2110	2233	0000	0121	2111	2343	19	1342	0211	2232	0001	0110	0000	2342	0211
20	3444	4423	3334	3313	2335	2211	3444	4423	20	2202	1111	3201	0011	0000	0000	3202	1111
21	2353	2231	2243	1222	0121	1110	2353	2232	21	1243	3200	2232	1100	0022	0000	2243	3200
22	2331	0122	2342	0001	0120	0000	2342	0122	22	0130	0000	0132	0000	0020	0000	0132	0000
23	1111	0121	1120	0111	0000	0000	1121	0121	23	0031	2433	0231	1333	0010	0222	0231	2433
24	0004	4122	1112	2012	0000	2111	1114	4122	24	0001	3223	1011	2223	0001	1212	1011	3223
25	2323	2220	3221	1220	1011	0010	3323	2220	25	5233	7543	3243	5443	4122	5432	5243	7543
26	0000	0000	0000	0000	0000	0000	0000	0000	26	4744	4322	5534	3211	2434	3300	5744	4322
27	0355	5532	0354	5443	0145	5521	0355	5543	27	2320	3222	2210	2213	1000	3200	2320	3223
28	3555	5443	4535	3423	1335	4423	4555	5443	28	1411	2100	2321	0000	0000	0000	2421	2100
29	3414	3221	5323	1101	3113	2000	5424	3221									
30	3415	4323	3424	3224	2224	3112	3425	4324									
31	1263	3332	2252	3222	0052	2111	2263	3332									

THREE-HOUR RANGE INDICES

VICTORIA 1971

TABLE 47

MARCH

APRIL

DAY	D	H	Z	K	DAY	D	H	Z	K
1	1223 0100	1122 0000	0000 0000	1223 0100	1	2253 2211	3252 1111	1141 0000	3253 2211
2	0120 1111	0210 1001	0000 0000	0220 1111	2	0023 2111	0021 3202	0012 3200	0023 3212
3	2141 2122	1131 0023	0020 0001	2141 2123	3	3335 1223	2223 1214	2124 0002	3335 1224
4	3244 4220	3322 3211	2213 2000	3344 4221	4	4413 3443	4332 1424	4321 3322	4433 3444
5	1332 2101	2331 1000	0120 0000	2332 2101	5	0013 2222	1112 1222	0001 0001	1113 2222
6	0201 1000	0101 0000	0000 0000	0201 1000	6	3444 1321	3334 1222	2333 2000	3444 1322
7	0011 1200	0111 1101	0000 0000	0111 1201	7	1421 0001	1321 0012	0110 0000	1421 0012
8	1114 4321	3313 2212	1103 3100	3314 4322	8	0032 1110	0121 2112	0001 2000	0132 2112
9	0333 1111	1122 1011	0020 0000	1333 1111	9	0566 5454	1354 4444	0246 5332	1566 5454
10	1053 4330	2142 3311	0021 2210	2153 4331	10	4633 3423	3532 3323	3542 2222	4633 3423
11	0313 3100	0322 1101	0002 1000	0323 3101	11	2446 3422	3544 3423	1425 3212	3546 3423
12	0003 4343	0112 3233	0003 3012	0113 4343	12	3233 2221	3222 2112	2222 1000	3233 2222
13	2355 4433	2334 4433	2344 4322	2355 4433	13	0334 4200	2223 2111	0023 2000	2334 4211
14	3555 4333	3344 3334	2235 4112	3555 4334	14	2031 4444	2021 3334	0020 4126	2031 4444
15	3553 2322	3343 2322	3241 1210	3553 2322	15	6525 4222	5434 3223	5435 5112	6535 4223
16	3324 3221	3323 2212	2113 2100	3324 3222	16	3434 3111	3223 2211	2233 2001	3434 3211
17	1134 2111	2232 1211	1021 1000	2234 2211	17	1243 0001	2233 1002	1132 0000	2243 1002
18	1112 0111	2211 0011	1000 0000	2212 0111	18	1332 1221	2212 1322	0002 0000	2332 1322
19	1323 4322	1212 2233	0100 3102	1323 4333	19	2332 0110	3321 0111	1211 0000	3332 0111
20	2553 1101	2442 0001	1231 0000	2553 1101	20	1232 1120	0221 1010	0010 0000	1232 1120
21	0022 0000	1011 0001	0001 0000	1022 0001	21	0014 3344	0124 3334	0003 2223	0124 3344
22	0000 0000	0000 0000	0000 0000	0000 0000	22	4442 2121	4322 2121	3320 0001	4442 2121
23	0001 1221	0011 1221	0000 0000	0011 1221	23	0343 2221	1223 1132	0011 0011	1343 2232
24	0233 2233	2233 1223	0010 0011	2233 2233	24	0000 0000	1100 0000	0000 0000	1100 0000
25	2154 1321	2143 1111	1032 0000	2154 1321	25	0000 0000	0000 0000	0000 0000	0000 0000
26	2163 3220	3243 2221	1032 1000	3263 3221	26	0010 2211	1010 2112	0000 1000	1010 2212
27	2233 4100	2232 2002	0022 1000	2233 4102	27	1345 1221	2222 0011	1123 0000	2345 1221
28	0000 0000	0000 0000	0000 0000	0000 0000	28	1443 4410	2333 4422	1123 3210	2443 4422
29	0021 1000	0020 0000	0000 0000	0021 1000	29	2111 2213	4222 2223	2110 0102	4222 2223
30	1102 1232	0002 1222	0002 0011	1102 1232	30	3233 3100	4332 2111	2112 1000	4333 3111
31	3464 3432	3443 2332	3442 2211	3464 3432					

RECORD OF OBSERVATIONS AT VICTORIA MAGNETIC OBSERVATORY 1971

THREE-HOUR RANGE INDICES

VICTORIA 1971

TABLE 48

MAY

JUNE

DAY	D		H		Z		K		DAY	D		H		Z		K	
1	1220	2122	1321	1121	0100	0010	1321	2122	1	0044	3433	1143	2434	0044	2221	1144	3434
2	3562	2110	3441	1211	2442	0000	3562	2211	2	3555	4433	4444	3333	3445	2233	4555	4433
3	0320	1222	0210	0011	0000	0002	0320	1222	3	6552	4322	5543	3223	4552	3111	6553	4323
4	3312	1110	4311	1011	2200	0010	4312	1111	4	1341	1211	2242	1222	1132	0010	2342	1222
5	1101	1211	2012	1212	0001	0100	2112	1212	5	3221	1010	3310	1012	2100	0000	3321	1012
6	3456	4433	3346	4334	2277	3323	3456	4434	6	1322	1200	2322	1111	1120	0100	2322	1211
7	4674	4333	4553	3233	3455	2212	4674	4333	7	0100	0110	1101	1012	0000	0000	1101	1112
8	0353	3222	2333	2222	1143	2111	2353	3222	8	2322	1100	2321	1101	1210	0000	2322	1101
9	3423	2210	3422	2112	2323	0001	3423	2212	9	0031	1211	0111	0211	0000	0000	0131	1211
10	4342	2110	2231	1011	1221	0110	4342	2111	10	0003	2100	0002	1111	0000	0000	0003	2111
11	2320	1000	2320	1011	0100	0000	2320	1011	11	1322	0000	2222	0001	0212	0000	2322	0001
12	0000	0001	2110	0012	1000	0000	2110	0012	12	0021	0100	1122	0012	0002	0000	1122	0012
13	0100	0110	3110	1201	0000	0000	3110	1211	13	0021	3321	1111	3322	0000	3101	1121	3322
14	3313	3322	3223	2332	1202	1111	3323	3332	14	1223	2100	2322	1102	1001	2000	2323	2102
15	3242	2211	3221	1211	3120	0001	3242	2211	15	1022	0100	2231	0123	0021	0001	2232	0123
16	0000	0111	2210	0122	0000	0001	2210	0122	16	0222	2111	2122	1213	1000	1002	2222	2213
17	3466	6543	3356	5544	3356	5533	3466	6544	17	1234	2200	2232	3111	0003	2000	2234	3211
18	4674	5320	4555	4332	4555	4421	4675	5332	18	0141	1110	3231	1022	1020	0000	3241	1122
19	2243	3220	4232	2112	2113	0001	4243	3222	19	0100	0000	2210	0001	0000	0000	2210	0001
20	0023	1000	2112	0102	0003	2000	2123	1102	20	0022	0000	1112	0010	0000	0000	1122	0010
21	1002	2100	3002	2311	0001	2001	3002	2311	21	0032	2010	1122	0112	0000	0000	1132	2112
22	1232	1101	3220	0002	1000	0000	3232	1102	22	0301	2121	2301	0002	0100	0010	2301	2122
23	2442	1120	4132	2122	2111	0010	4442	2122	23	1333	3200	2233	3101	1113	3000	2333	3201
24	1211	2321	2221	1222	1100	0100	2221	2322	24	0000	0020	1110	0011	0000	0000	1110	0021
25	2322	1221	3121	1123	0002	0001	3322	1223	25	2344	4523	2334	4535	1035	3523	2344	4535
26	3332	1100	2331	1122	1230	0000	3332	1122	26	2445	2110	4333	1012	3334	1000	4445	2112
27	0011	0000	0011	0000	0000	0000	0011	0000	27	0322	2001	2221	2111	0000	1000	2322	2111
28	0000	1120	0000	1011	0000	0000	0000	1121	28	0021	3221	1111	2113	0002	1011	1121	3223
29	0100	1121	2200	1123	0000	0002	2200	1123	29	0322	4343	3333	3343	2222	3222	3333	4343
30	2334	4222	3234	3222	1123	4111	3334	4222	30	2222	3221	4322	2223	2211	2112	4322	3223
31	0221	0100	2111	1021	0000	0000	2221	1121									

VICTORIA 1971

TABLE 49

JULY

AUGUST

DAY	D	H	Z	K	DAY	D	H	Z	K
1	2432 2112	4422 1122	2300 1000	4432 2122	1	1211 2111	3211 1112	2100 0001	3211 2112
2	4343 3112	3332 3114	3331 1011	4343 3114	2	3564 3111	4452 2012	2252 1001	4564 3112
3	0022 1110	3221 1112	1110 1001	3222 1112	3	2100 1100	1110 2001	0000 0000	2110 2101
4	2220 1221	2211 0113	2200 0001	2221 1223	4	1313 2221	3222 2112	1002 2000	3323 2222
5	0233 2121	3212 1113	1100 0001	3233 2123	5	2451 1000	4441 0003	3240 0001	4451 1003
6	2120 0121	4221 0223	2100 0011	4221 0223	6	0000 0100	1000 0011	0000 0000	1000 0111
7	0001 0000	1211 1011	0000 0000	1211 1011	7	0011 0111	1021 0013	0000 0000	1021 0113
8	0413 1211	2322 0113	0201 0011	2423 1213	8	3533 3211	3323 2113	1323 2001	3533 3213
9	2150 0010	4320 0011	2010 0000	4350 0011	9	1133 2212	2123 2114	1002 2002	2133 2214
10	2000 0100	3100 0001	1000 0000	3100 0101	10	1441 2231	2331 1222	2230 0000	2441 2232
11	0111 1310	2211 1211	0000 0100	2211 1311	11	3533 2210	3334 2122	1224 3010	3534 2222
12	2121 2121	3112 2123	1000 0012	3122 2123	12	1343 4100	2343 3111	1131 3000	2343 4111
13	2233 2231	3242 1122	2012 1110	3243 2232	13	1333 1201	2232 0012	1030 0100	2333 1212
14	1243 3211	3223 2212	1103 2010	3243 3212	14	0202 0110	1100 0101	0000 0000	1202 0111
15	1413 3100	3322 2122	1211 1000	3423 3122	15	0112 2110	1112 0012	0000 0000	1112 2112
16	0033 2210	2221 2122	1011 1000	2233 2222	16	1314 1200	2312 1111	1203 1000	2314 1211
17	2110 2000	3110 0001	1000 0000	3110 2001	17	0002 2103	1122 1015	0001 0003	1122 2115
18	0222 3211	1222 2202	0001 1101	1222 3212	18	4312 2311	4422 2112	3200 1000	4422 2312
19	3110 1110	3321 1212	2200 0000	3321 1212	19	3131 0000	2220 0001	1000 0000	3231 0001
20	0000 2000	1001 2101	1000 0000	1001 2101	20	0000 0110	1100 0111	0000 0000	1100 0111
21	0123 4532	1222 3433	0102 3223	1223 4533	21	0324 3210	2223 1102	1112 1000	2324 3212
22	4310 1010	4310 0011	3210 0000	4310 1011	22	1243 3311	2232 1103	2032 2102	2243 3313
23	1011 2121	2232 3223	1001 2111	2232 3223	23	3332 3210	3322 1112	1220 2000	3332 3212
24	1100 1000	3110 0012	2100 0001	3110 1012	24	0232 3212	2211 1123	0000 0011	2232 3223
25	1001 2100	2001 1010	0000 0000	2001 2110	25	2212 2211	2211 1223	0001 1000	2212 2223
26	0001 2343	0000 1335	0000 0122	0001 2345	26	3245 2210	3133 2111	3033 0000	3245 2211
27	2212 2311	4122 1222	2101 1101	4222 2322	27	0000 1100	1010 0001	0000 0000	1010 1101
28	3431 0100	3321 0000	1220 0000	3431 0100	28	0000 1321	0011 2212	0000 0100	0011 2322
29	0011 1221	0011 1223	0000 0101	0011 1223	29	2002 3200	2121 2111	0000 1000	2122 3211
30	1234 2110	2223 2111	1123 3001	2234 2111	30	2021 0203	3121 0213	0000 0002	3121 0213
31	1122 2120	3222 1122	1002 2010	3222 2122	31	3455 2332	5343 1333	3343 0021	5455 2333

THREE-HOUR RANGE INDICES

VICTORIA 1971

TABLE 50

SEPTEMBER

OCTOBER

DAY	D	H	Z	K	DAY	D	H	Z	K
1	3332 1111	4421 1012	2321 0000	4432 1112	1	5544 3212	4342 2213	3241 1002	5544 3213
2	0000 0000	0000 0000	0000 0000	0000 0000	2	5545 3311	3344 2123	2234 3001	5545 3323
3	1112 3000	2112 2000	0001 1000	2112 3000	3	4433 3321	4432 3211	3323 3101	4433 3321
4	0010 0233	0010 0124	0000 0002	0010 0234	4	2344 3212	2232 2012	0032 2002	2344 3212
5	2444 3311	2333 3222	1124 2100	2444 3322	5	4442 3213	4331 2113	2331 1012	4442 3213
6	1044 3212	2222 2213	0023 3002	2244 3213	6	5203 2512	4213 2303	3202 1201	5213 2513
7	3353 1312	3332 2323	2243 0211	3353 2323	7	1000 1233	2201 0134	1000 0023	2201 1234
8	2455 1110	2433 1101	1324 0000	2455 1111	8	5644 4420	3533 3211	2334 4200	5644 4421
9	2002 3201	2122 1302	0001 0000	2122 3302	9	2445 4332	4443 2333	2435 4212	4445 4333
10	1132 1000	2331 1000	0020 0000	2332 1000	10	1433 1211	2322 0111	0221 0000	2433 1211
11	1224 2110	1123 1010	0003 0000	1224 2110	11	1032 3331	1121 3222	0021 3210	1132 3332
12	1324 1212	1224 0122	0013 0000	1324 1222	12	0200 2322	1200 1323	0000 0101	1200 2323
13	3452 2221	3342 2122	2221 0000	3452 2222	13	2142 2222	3232 2322	1131 1101	3242 2322
14	1143 0122	2231 0112	1022 0000	2243 0122	14	1121 4222	1121 2113	0010 2101	1121 4223
15	2124 2221	3223 1113	1013 1001	3224 2223	15	2200 2211	2211 1212	0000 1001	2211 2212
16	3334 1222	3132 1124	1032 1012	3334 1224	16	0111 2100	1110 1000	0000 0000	1111 2100
17	2332 2124	2122 2025	1011 0003	2332 2125	17	0031 2011	0010 1011	0000 0000	0031 2011
18	6674 3321	5554 3322	6565 4000	6674 3322	18	0120 0200	1010 0000	0000 0000	1120 0200
19	0342 1212	2241 1222	0132 0101	2342 1222	19	0000 0100	1010 0000	0000 0000	1010 0100
20	2444 3332	3433 3222	1333 3111	3444 3332	20	0012 3120	0012 1011	0000 0000	0012 3121
21	1101 1220	2120 1011	0000 0000	2121 1221	21	0021 2100	0111 0002	0000 0000	0121 2102
22	1201 0000	1201 0001	0000 0001	1201 0001	22	0132 1120	0243 0220	0032 0110	0243 1220
23	0111 0100	0120 0100	0000 0000	0121 0100	23	0000 2222	0012 3112	0000 1011	0012 3222
24	0000 1221	0000 0122	0000 0001	0000 1222	24	2232 5322	2232 3122	0022 3101	2232 5322
25	3644 4422	2444 4222	2555 5323	3644 4422	25	1122 2111	2221 2010	0011 1000	2222 2111
26	2012 1223	2012 1225	0000 0113	2012 1225	26	0000 0111	0000 1011	0000 0000	0000 1111
27	6665 3321	4444 3222	5454 4110	6665 3322	27	0010 0110	0110 0000	0000 0000	0110 0110
28	1353 2211	3342 1112	0132 0000	3353 2212	28	1234 3343	1133 2234	0022 2121	1234 3344
29	1031 1111	2121 1022	0020 0000	2131 1122	29	4444 3332	4333 2343	3322 1121	4444 3343
30	0334 5442	1233 3324	0013 3322	1334 5444	30	5333 2300	4422 1110	2222 0000	5433 2310
31					31	0012 0211	3220 0101	0010 0000	3222 0211

VICTORIA 1971

TABLE 51

NOVEMBER

DECEMBER

DAY	D	H	Z	K	DAY	D	H	Z	K
1	1331	1101	2211	0002	0000	0000	2331	1102	
2	0011	0000	0011	0000	0000	0000	0011	0000	
3	0022	2000	0010	0000	0000	0000	0022	2000	
4	1001	1220	2111	0110	0000	0000	2111	1220	
5	0223	3000	1111	2100	0000	0000	1223	3100	
6	1021	0110	0010	0000	0000	0000	1021	0110	
7	1223	4100	2211	2100	0001	0000	2223	4100	
8	0001	1322	1012	2121	0000	0100	1012	2322	
9	0101	1000	0000	0000	0000	0000	0101	1000	
10	1000	0121	0011	1022	0000	0010	1011	1122	
11	4423	2231	2322	1131	1100	0010	4423	2231	
12	2240	1101	1130	0101	0030	0000	2240	1101	
13	0011	0100	1011	1100	0000	0000	1011	1100	
14	0000	0000	0000	0010	0000	0000	0000	0010	
15	0000	0100	0000	0000	0000	0000	0000	0100	
16	0011	0000	0010	0000	0000	0000	0011	0000	
17	0000	0010	0100	0001	0000	0000	0100	0011	
18	1212	2101	3321	1101	0100	0000	3322	2101	
19	0000	3321	0000	2211	0000	0100	0000	3321	
20	0023	1211	0022	1002	0000	0000	0023	1212	
21	2134	4112	0123	3002	0013	2100	2134	4112	
22	3255	4332	3344	2233	1144	1122	3355	4333	
23	3463	5433	3463	4444	2352	3323	3463	5444	
24	5664	4324	4542	4323	3432	3202	5664	4324	
25	4666	4323	4554	5332	2353	2420	4666	5333	
26	4545	3220	3433	3221	1333	3110	4545	3221	
27	1212	3322	1112	2211	0000	0100	1212	3322	
28	2134	3111	1121	1111	0013	2000	2134	3111	
29	2202	2110	2101	2000	0000	0000	2202	2110	
30	0121	3000	0010	2000	0000	0000	0121	3000	
1	0012	1111	0012	1112	0000	0000	0012	1112	
2	0000	2302	0000	2201	0000	0000	0000	2302	
3	1143	2322	0133	2221	0032	1000	1143	2322	
4	2122	2221	1222	0111	0000	0000	2222	2221	
5	0133	1001	1121	1001	0000	0000	1133	1001	
6	0300	0000	0200	0000	0000	0000	0300	0000	
7	0100	0000	0100	0000	0000	0000	0100	0000	
8	0010	2100	1000	1001	0000	0000	1010	2101	
9	0203	1221	2212	0111	0003	0000	2213	1221	
10	0000	2200	0000	1000	0000	0000	0000	2200	
11	0000	1222	0000	0222	0000	0000	0000	1222	
12	0010	0322	1000	0223	0000	0002	1010	0323	
13	1044	3311	2132	2222	0032	1000	2144	3322	
14	0010	2000	0000	1000	0000	0000	0010	2000	
15	0011	0100	0010	0000	0000	0000	0011	0100	
16	0001	0132	0001	0033	0000	0011	0001	0133	
17	4654	5753	4544	4764	2343	4652	4654	5764	
18	2225	6421	0004	3000	0015	4100	2225	6421	
19	0134	4321	0134	2121	0034	3000	0134	4321	
20	0000	0102	0000	0012	0000	0000	0000	0112	
21	1003	3232	0011	1222	0000	0101	1013	3232	
22	1254	4333	2333	3223	0032	3111	2354	4333	
23	1433	3331	2332	2221	0121	2110	2433	3331	
24	0023	3010	2222	2000	0001	0000	2223	3010	
25	0222	2211	1100	1111	0000	0000	1222	2211	
26	2433	2211	2321	1111	1220	0000	2433	2211	
27	0143	0000	1121	0000	0020	0000	1143	0000	
28	0000	0010	0000	0010	0000	0000	0000	0010	
29	0245	5322	0233	3313	0034	4201	0245	5323	
30	3334	2201	2233	1201	0043	3100	3334	2201	
31	2420	1211	1321	0122	0100	0000	2421	1222	