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record of observations at victoria magnetic observatory 1969

D. R. AULD and I. W. FETTERLEY

DEPARTMENT OF ENERGY, MINES AND RESOURCES

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record of observations at victoria magnetic observatory 1969

D. R. AULD and I. W. FETTERLEY

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

The basic 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 Nov. 26,	0.93 min/mm or 5.10 ± 0.02 γ /mm
Nov. 26 to Dec. 31,	0.94 min/mm or 5.15 ± 0.02 γ /mm (γ /mm)
H: Jan. 1 to May 28,	2.36 ± 0.02
May 28 to Nov. 26,	2.27 ± 0.02
Nov. 26 to Dec. 31,	2.36 ± 0.02
Z: Jan. 1 to May 28,	4.03 ± 0.02
May 28 to Nov. 26,	3.93 ± 0.04
Nov. 26 to Dec. 31,	4.09 ± 0.02

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 ± 0.2 minute for declination, ± 2 gammas for the horizontal component, and ± 3 gammas for the vertical component.

Magnetic reductions

The methods used were essentially those described by Auld and Holmes (1969).

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 1968.5 - 1969.5, the decrease in declination was 2.0 minutes (the mean rate of decrease over the whole 14-year period being 2.5 minutes per year); the increase in horizontal intensity was 21 gammas (the mean rate of increase over the 14-year period being 18 gammas

1969 Ruska Baseline Values

Declination D	Jan. 1 (0000) - July 27 (0005)	22° 11.0' East
	July 27 (0005) - Dec. 31 (2400)	22° 10.5' East
Horizontal intensity H	Jan. 1 (0000) - May 28 (1545)	18831 (γ)
	May 28 (1545) - Nov. 26 (1640)	18897
	Nov. 26 (1640) - Dec. 8 (1948)	18825
	Dec. 8 (1948) - Dec. 31 (2400)	18864
Temperature correction (γ /mm T)	+9 when temperature is greater than reference level -5 when temperature is less than reference level	
Vertical intensity Z	Jan. 1 (0000) - May 28 (1545)	53073 (γ)
	May 28 (1545) - Nov. 26 (1640)	53057
	Nov. 26 (1640) - Dec. 31 (2400)	53074
Temperature correction	-2 γ /mm T	
Temperature reference levels	Jan. 1 (0000) - May 28 (1545)	4.2 (mm)
	May 28 (1545) - Nov. 26 (1640)	12.7
	Nov. 26 (1640) - Dec. 31 (2400)	4.3

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

per year); the decrease in the vertical component was 11 gammas (the mean rate of decrease over the 14-year period being 23 gammas per year).

Acknowledgments

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

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HORIZONTAL INTENSITY

MEAN VALUES FOR PERIODS OF SIXTY MINUTES, UNIVERSAL TIME

TABLE 1 VICTORIA

H = 18,500 GAMMA +

JANUARY

1969

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	393	396	393	399	401	399	398	397	398	399	409	406	407	404	405	411	411	406	395	393	392	392	395	401	400
2	405	406	404	402	400	409	409	409	409	411	411	415	411	410	408	407	409	401	391	388	394	399	402	405	405
3 O	411	415	419	421	422	421	421	422	423	425	427	429	428	425	424	421	416	410	403	399	401	405	407	405	417
4	410	413	414	408	417	416	417	417	421	418	415	411	417	419	421	418	417	411	400	391	392	397	407	409	412
5	417	420	421	415	417	418	419	421	421	422	423	425	426	426	427	425	417	409	401	396	399	405	411	414	416
6 O	419	420	420	421	419	419	417	417	418	421	423	423	426	424	423	419	413	401	392	391	395	395	412	417	414
7	422	427	427	429	429	431	431	429	421	415	415	411	425	419	418	421	415	400	381	387	401	409	408	410	416
8	413	417	416	419	409	414	417	422	415	415	414	415	417	416	415	415	413	408	397	383	383	391	396	398	409
9	414	421	421	421	425	421	419	420	419	420	417	417	419	420	417	417	412	403	393	385	385	391	398	408	412
10 O	417	423	424	423	425	423	425	423	419	419	421	419	420	423	423	423	418	405	397	394	395	405	409	417	416
11	423	428	428	428	428	426	423	421	417	422	427	425	427	427	425	427	429	417	402	395	396	402	412	419	420
12	425	427	433	426	432	423	426	420	422	418	420	420	421	422	416	430	424	420	405	390	391	398	402	410	418
13 O	419	421	422	421	423	420	422	418	420	420	419	418	421	423	425	423	423	416	408	400	399	405	414	418	417
14	421	409	415	413	415	415	419	417	412	414	414	419	419	421	424	424	422	417	403	395	393	391	395	406	412
15 D	406	406	413	417	411	418	418	415	415	419	417	418	419	421	424	425	427	416	379	370	395	401	401	407	411
16	414	414	418	419	419	425	415	422	419	421	418	419	416	425	425	424	430	417	405	402	405	413	412	407	417
17 D	395	409	402	409	407	396	409	414	415	429	410	416	417	418	422	418	415	402	383	392	400	392	393	394	407
18 D	391	410	421	413	405	401	411	412	409	409	414	409	423	427	420	416	416	402	396	392	396	389	395	407	408
19	403	408	420	415	418	416	416	411	415	415	411	422	414	416	420	420	421	416	392	384	388	388	399	412	410
20	420	420	418	407	412	413	409	416	415	414	418	417	419	415	423	417	422	409	404	398	398	403	403	407	412
21	418	424	414	419	424	419	425	419	420	418	419	421	423	424	425	420	418	412	405	406	410	412	416	419	418
22	422	422	425	428	427	429	425	425	420	422	424	422	425	425	425	425	423	415	408	402	409	399	411	420	420
23	423	425	427	427	425	424	421	421	421	426	425	426	428	432	429	430	429	431	423	411	406	412	421	425	424
24	432	431	430	431	430	430	427	427	428	429	429	432	432	434	436	431	430	429	408	391	372	370	391	405	420
25 D	401	378	399	408	404	404	392	387	380	395	388	398	383	414	434	418	395	384	392	364	359	382	394	401	394
26 D	371	373	408	405	410	411	413	412	414	416	413	412	412	419	424	414	413	407	399	392	385	395	395	404	405
27	412	418	415	416	408	406	407	403	399	396	404	408	413	407	422	427	412	415	398	390	387	395	398	400	407
28	405	408	408	415	420	417	419	419	416	417	419	419	420	422	418	419	420	415	402	394	393	392	396	404	412
29 O	417	419	422	418	420	418	421	422	420	419	419	422	424	424	425	430	427	418	404	393	388	396	409	417	416
30	414	420	423	421	416	416	417	420	419	419	427	420	425	428	428	425	421	423	418	405	400	407	411	419	418
31	423	425	425	425	426	425	420	420	416	411	415	418	418	419	429	430	431	428	413	401	393	399	402	399	417
MEAN	412	415	418	417	418	417	417	417	415	417	417	418	419	421	423	422	419	412	400	393	393	398	404	409	413

RECORD OF OBSERVATIONS AT VICTORIA MAGNETIC OBSERVATORY 1969

DECLINATION

MEAN VALUES FOR PERIODS OF SIXTY MINUTES, UNIVERSAL TIME

TABLE 2 VICTORIA		D = 22 DEG 00.0 MIN EAST +																				JANUARY		1969		
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	29.5	30.2	31.1	30.8	30.4	30.0	30.6	32.0	29.9	30.0	27.7	31.3	30.0	29.3	28.4	32.2	31.9	30.4	30.2	31.1	30.8	31.1	30.6	30.4	30.4	
2	30.5	30.1	30.5	30.9	33.1	30.3	29.8	29.6	29.6	29.8	29.6	30.1	30.6	30.5	30.7	30.1	32.3	33.2	33.4	32.5	31.1	30.5	30.5	30.1	30.8	
3 Q	29.9	30.1	30.4	30.6	30.6	30.4	30.2	30.1	30.4	30.4	30.4	30.8	30.8	31.0	31.5	32.6	33.5	33.5	32.6	31.7	31.2	30.8	30.8	30.4	31.0	
4	30.0	30.0	29.8	29.6	29.8	29.6	29.6	29.6	29.4	29.4	29.8	30.7	31.1	31.8	31.8	31.4	31.4	32.0	31.8	31.6	31.7	30.3	29.0	29.4	29.2	30.4
5	29.8	29.6	29.8	30.2	30.9	28.4	27.3	28.0	28.0	27.6	28.0	28.7	28.7	28.0	29.1	30.4	30.9	31.3	31.1	30.2	29.5	28.4	27.3	27.3	29.1	
6 Q	28.0	28.4	28.9	29.7	29.7	29.3	29.3	29.3	29.1	28.2	28.0	28.9	30.0	29.8	29.3	30.6	32.2	33.7	33.3	31.8	29.7	28.2	27.5	28.2	29.6	
7	28.2	27.6	28.0	28.8	29.5	29.1	29.1	29.1	30.6	30.8	32.8	32.2	37.7	37.3	35.3	33.1	33.1	33.5	31.7	25.1	24.2	24.4	26.2	26.9	30.2	
8	27.7	28.2	28.8	28.0	27.7	28.6	28.2	27.1	28.8	28.2	28.0	28.9	28.9	29.7	29.7	29.7	31.3	31.9	31.1	29.9	27.1	25.7	25.3	24.9	28.5	
9	25.7	26.8	28.2	28.6	29.2	29.0	28.8	29.2	29.0	28.8	29.2	29.4	29.7	30.8	31.0	29.5	32.1	33.5	33.9	33.5	31.7	29.5	28.2	27.5	27.3	29.6
10 Q	28.6	29.2	29.7	30.3	30.1	30.5	30.1	30.1	30.1	29.5	30.1	31.0	29.9	31.9	32.8	33.2	33.6	33.0	32.5	30.3	28.1	27.0	27.0	27.5	30.3	
11	28.1	28.5	29.2	29.7	29.9	29.6	29.7	29.4	29.6	29.6	30.3	30.6	31.4	32.1	30.1	33.0	33.9	33.4	32.7	30.5	28.8	27.5	26.8	27.0	30.1	
12	28.1	28.4	28.1	28.2	28.6	28.3	28.2	28.0	27.9	29.2	29.2	30.7	31.7	32.9	29.3	31.6	33.6	30.5	30.2	29.8	29.2	27.7	27.4	27.2	29.3	
13 Q	27.5	27.3	28.1	28.2	28.8	28.6	28.4	28.3	28.6	28.8	29.3	29.6	28.6	28.6	29.1	29.2	31.0	32.1	32.3	30.8	29.1	27.2	26.6	26.1	28.8	
14	26.5	27.3	29.1	28.7	29.0	30.6	30.2	29.2	30.5	29.2	28.2	29.8	29.3	29.2	29.3	30.0	30.7	31.9	31.8	29.5	27.1	26.1	24.2	25.3	28.9	
15 D	27.8	26.2	27.0	26.3	27.5	28.2	28.3	28.8	29.6	31.5	30.8	30.5	31.2	29.8	29.6	30.2	31.1	32.4	31.3	26.4	26.1	26.7	26.1	26.6	28.7	
16	28.0	27.5	28.0	27.4	28.5	26.5	28.0	28.1	28.7	27.8	28.4	30.6	32.2	23.1	31.6	31.9	32.0	30.9	30.2	29.0	27.7	26.7	26.6	26.4	28.6	
17 D	28.2	27.6	26.6	26.2	25.8	29.2	28.5	28.3	29.2	28.0	31.2	30.9	27.9	27.7	30.0	30.7	31.6	30.5	27.8	25.8	28.5	27.8	28.3	26.7	28.5	
18 D	27.4	27.8	28.9	28.9	29.9	29.1	28.2	25.0	29.8	26.5	29.6	23.4	30.7	31.9	31.6	29.5	30.6	30.6	29.5	29.4	29.0	26.9	26.9	25.8	28.6	
19	27.6	29.8	28.3	28.1	28.3	29.1	28.7	28.3	27.8	24.2	28.5	30.5	29.7	27.8	28.8	30.0	30.8	30.5	29.9	28.3	26.6	25.6	25.4	26.3	28.3	
20	27.3	27.5	27.8	31.3	30.7	28.6	29.3	28.4	28.1	28.0	28.0	29.4	29.7	29.5	29.0	29.6	29.4	29.1	28.3	27.9	27.4	26.8	25.9	26.1	28.5	
21	27.6	26.9	27.7	28.5	28.5	28.6	27.7	27.6	27.3	26.2	28.9	29.7	29.3	29.3	29.6	29.6	30.6	31.1	29.0	27.9	27.3	26.0	26.1	26.8	28.2	
22	27.9	27.7	28.3	28.4	28.8	27.8	28.0	27.9	27.4	26.9	28.4	28.2	29.0	29.0	29.2	30.0	31.2	31.0	31.4	30.3	28.0	26.7	26.0	26.2	28.5	
23	26.9	27.6	27.5	28.0	28.2	28.6	28.5	27.7	28.3	28.0	28.4	28.4	28.3	30.1	30.4	30.5	29.5	29.8	30.5	29.8	28.2	27.1	26.3	26.3	28.5	
24	27.6	27.7	28.0	28.2	28.3	28.3	28.0	28.2	28.2	27.8	27.7	28.1	28.5	25.1	27.7	24.9	28.1	29.2	28.2	27.8	26.2	22.5	23.0	23.7	27.1	
25 D	26.5	27.9	29.4	29.5	30.1	31.7	30.8	31.7	32.8	28.8	29.6	26.3	25.0	23.4	28.1	29.3	25.9	22.9	26.4	27.7	26.0	27.0	27.1	27.3	28.0	
26 D	29.2	32.9	29.0	31.7	31.1	29.9	28.9	28.4	28.4	28.3	28.6	25.8	20.3	28.5	30.8	31.1	33.1	33.4	31.3	29.5	27.2	26.5	26.2	25.8	29.0	
27	28.4	28.7	28.7	29.3	31.2	33.1	30.4	32.9	32.9	30.0	29.6	26.3	25.8	20.9	29.4	29.7	28.5	29.5	30.4	27.7	28.0	27.7	22.3	28.1	28.7	
28	27.3	28.1	30.6	29.0	29.5	29.3	29.3	28.9	28.0	28.3	28.5	28.1	28.3	28.7	29.5	29.6	31.3	32.1	31.9	30.4	29.3	27.1	26.9	26.4	29.0	
29 Q	27.4	28.3	28.8	28.7	28.9	28.7	28.7	28.1	28.2	28.1	28.0	28.0	28.0	29.1	29.5	29.7	31.5	33.1	33.1	32.0	31.2	28.2	27.1	27.0	29.1	
30	27.6	27.9	28.3	28.4	29.5	29.5	28.7	28.1	28.7	32.2	29.2	30.3	29.6	28.9	28.7	29.2	31.0	31.6	31.2	30.1	28.1	26.9	26.9	27.4	29.1	
31	28.0	27.4	27.9	28.2	27.9	28.1	28.1	28.3	29.7	29.7	28.6	29.3	30.1	30.9	30.5	27.3	24.8	28.4	31.5	30.9	29.7	28.8	27.6	25.9	28.6	
MEAN	28.0	28.4	28.7	29.0	29.4	29.2	29.0	28.8	29.2	28.8	29.1	29.2	29.5	29.3	30.0	30.4	31.1	31.3	31.0	29.6	28.4	27.3	26.8	27.0	29.1	

VERTICAL INTENSITY

MEAN VALUES FOR PERIODS OF SIXTY MINUTES, UNIVERSAL TIME

TABLE 3 VICTORIA

Z = 53,000 GAMMA +

JANUARY 1969

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	105	105	106	109	112	111	111	112	114	112	109	104	108	113	115	112	116	116	115	117	121	123	122	120	113
2	120	120	122	122	124	126	124	124	124	125	123	122	120	122	124	125	130	128	126	130	132	132	130	131	125
3 Q	133	131	130	131	131	131	130	130	130	130	130	130	129	129	129	129	129	128	129	133	136	134	134	133	131
4	137	136	135	138	138	138	139	140	141	141	141	142	140	143	144	146	148	147	147	148	146	144	144	144	142
5	148	148	147	148	149	147	146	148	148	146	146	148	146	144	144	147	146	145	145	144	145	146	144	143	146
6 Q	143	142	142	142	142	142	142	145	146	143	144	143	144	142	140	141	143	144	141	140	139	140	141	142	142
7	141	138	137	136	136	137	137	139	141	141	143	142	116	130	138	141	141	140	141	140	141	143	141	139	138
8	141	140	138	140	140	143	143	139	135	138	142	142	143	141	137	140	142	142	140	138	139	142	143	141	140
9	145	145	144	144	142	143	142	144	144	146	146	145	146	146	145	146	146	142	141	141	142	147	148	149	145
10 Q	148	146	144	144	142	141	142	142	143	134	136	146	145	142	144	143	144	142	140	136	138	141	144	145	142
11	144	142	140	140	138	138	138	140	141	144	145	144	144	143	143	145	138	134	130	131	136	133	133	133	140
12	135	133	132	130	130	127	128	128	129	130	127	122	125	126	124	121	122	121	121	121	122	125	132	133	127
13 Q	133	133	134	131	131	130	128	128	127	128	126	124	126	129	128	130	134	133	130	126	122	125	127	126	129
14	127	129	132	132	133	132	131	127	120	129	125	123	128	129	130	130	129	124	123	125	124	121	121	128	127
15 D	131	131	137	140	142	140	138	138	137	135	130	131	131	129	132	134	134	128	122	120	125	125	124	127	132
16	129	131	134	133	136	138	140	137	134	130	127	125	125	107	109	121	128	127	124	123	122	125	124	122	127
17 D	125	132	136	144	149	153	150	145	138	125	114	123	123	117	126	125	128	123	125	128	128	123	127	133	131
18 D	133	138	139	137	138	139	137	124	133	130	130	103	104	118	118	125	123	120	125	126	128	125	129	129	127
19	131	137	136	136	136	135	137	137	135	122	115	122	123	121	125	127	128	126	122	129	131	129	127	130	129
20	132	132	132	132	137	135	139	139	136	133	133	132	126	124	125	124	128	123	123	121	119	122	125	129	129
21	133	133	131	133	133	133	129	129	130	130	125	127	131	129	129	130	131	129	127	126	128	131	132	132	130
22	128	130	131	132	130	129	129	129	129	125	129	131	130	129	130	130	131	131	131	130	126	126	131	129	129
23	130	134	132	132	131	130	129	131	130	131	131	130	128	127	127	130	130	128	124	125	125	127	127	124	129
24	127	129	128	128	127	125	127	127	126	128	127	128	126	118	100	95	96	100	106	114	116	128	134	137	121
25 D	146	149	155	149	145	146	139	138	120	104	91	92	81	83	98	112	119	118	126	123	130	141	144	145	125
26 D	146	162	158	153	153	145	140	137	135	134	137	125	86	102	111	128	133	132	134	134	129	134	135	134	134
27	137	140	139	139	138	138	137	134	124	119	119	115	113	104	111	124	128	134	130	131	133	135	139	139	129
28	141	143	145	145	144	140	140	138	137	135	135	135	135	135	136	138	140	135	125	124	128	130	133	137	136
29 Q	138	138	139	138	137	138	135	135	134	134	133	134	133	132	134	136	140	136	133	131	129	128	131	135	135
30	136	136	137	137	135	138	136	135	134	129	113	124	131	133	134	134	136	135	131	126	125	127	133	135	132
31	133	133	134	134	133	134	133	132	130	130	129	123	124	118	121	122	125	125	129	131	131	131	132	129	129
MEAN	135	136	136	136	137	136	135	135	133	131	129	128	126	126	127	130	132	130	129	129	130	132	133	134	132

HORIZONTAL INTENSITY

MEAN VALUES FOR PERIODS OF SIXTY MINUTES, UNIVERSAL TIME

TABLE 4 VICTORIA		H = 18,500 GAMMA +																				FEBRUARY				1969
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	415	420	420	417	419	419	419	419	417	421	419	421	422	422	423	422	423	419	409	405	399	398	407	412	416	
2 D	419	420	424	422	424	424	422	421	424	416	416	418	415	420	423	436	447	415	153	154	299	288	292	332	380	
3 D	348	322	359	342	340	344	362	363	373	375	367	366	374	362	378	401	393	368	322	310	337	324	365	358		
4	390	395	396	398	402	401	397	396	400	399	399	403	403	407	411	412	407	403	398	394	400	399	392	405	400	
5	407	396	397	404	400	398	399	408	401	402	401	412	412	415	414	413	409	398	391	394	392	399	400	404	403	
6	408	412	406	391	399	394	400	414	408	408	416	412	416	414	414	413	407	399	393	395	396	403	399	394	405	
7	413	415	416	416	417	416	415	416	412	412	414	412	417	416	415	418	409	397	382	379	391	398	399	399	408	
8	396	406	419	417	413	404	411	413	415	416	418	420	424	424	423	419	409	394	398	396	391	393	400	402	409	
9 Q	420	422	418	419	423	421	421	422	417	419	418	418	420	423	421	419	419	404	396	392	394	399	407	410	414	
10	419	423	423	423	422	423	420	418	424	426	421	418	419	423	423	421	407	403	397	390	385	369	376	366	410	
11 D	403	394	374	395	395	384	401	412	376	374	356	352	258	324	370	307	281	274	287	308	329	324	371	392	352	
12	384	390	395	399	395	397	397	398	398	396	395	396	396	398	400	399	403	397	384	383	381	379	381	365	392	
13	379	389	395	404	405	404	408	400	404	404	407	410	410	410	406	417	420	411	401	397	392	383	395	404	402	
14	412	411	414	400	408	411	411	411	411	412	410	415	413	412	412	410	409	401	395	396	394	398	386	381	406	
15 D	399	413	409	390	413	406	406	409	413	414	416	425	423	424	421	425	417	404	380	367	385	390	390	390	405	
16	394	405	411	412	411	403	407	404	417	414	417	420	421	417	418	410	400	401	396	390	389	393	402	410	407	
17 Q	414	419	416	417	417	415	415	417	417	414	415	416	421	424	419	417	412	406	402	394	388	394	403	408	412	
18 Q	415	418	418	421	423	422	422	421	421	424	424	424	425	428	427	423	414	410	404	398	398	402	406	416	417	
19	423	422	427	425	423	425	425	428	430	430	430	433	439	439	431	426	417	405	398	394	392	389	399	409	419	
20	419	425	425	419	404	409	417	424	423	426	429	427	426	430	431	430	423	413	409	396	384	384	390	393	415	
21	402	413	422	422	420	413	405	412	423	423	426	426	425	427	424	424	419	409	397	387	380	386	396	408	412	
22 Q	418	422	424	426	425	424	425	424	428	430	432	431	432	435	436	439	428	417	401	393	384	384	390	406	419	
23	418	424	429	428	424	413	417	416	422	423	429	427	421	436	428	436	430	418	408	396	389	393	401	414	418	
24	423	423	425	427	422	419	424	427	428	428	427	429	432	430	431	430	423	415	405	393	383	383	390	398	417	
25	415	417	419	423	426	427	425	425	424	431	429	429	433	433	431	430	425	416	409	397	386	384	384	386	417	
26	411	417	425	419	413	419	429	436	435	431	431	427	431	434	433	431	428	419	405	391	383	383	391	405	418	
27 D	416	420	412	433	419	428	425	418	425	430	430	433	441	434	415	418	393	387	377	367	360	350	362	376	407	
28	392	399	403	402	409	409	413	420	418	416	413	415	409	408	408	413	410	414	403	382	371	371	358	365	401	
MEAN	406	409	411	411	411	410	412	414	414	415	414	416	414	417	417	416	410	401	382	376	380	380	387	394	405	

DECLINATION

MEAN VALUES FOR PERIODS OF SIXTY MINUTES, UNIVERSAL TIME

TABLE 5 VICTORIA

D = 22 DEG 00.0 MIN EAST +

FEBRUARY

1969

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 Q	27.5	27.7	27.9	28.4	28.3	28.2	28.1	27.6	27.9	27.9	27.8	28.2	28.2	27.8	28.2	29.2	30.8	31.3	30.0	28.6	27.8	26.3	26.9	26.6	28.2
2 D	27.4	27.3	27.7	27.7	27.9	28.0	27.9	27.8	28.6	28.9	28.8	28.9	28.4	28.6	30.5	28.0	33.7	39.5	39.3	12.0	20.9	21.6	20.4	22.4	27.6
3 D	25.4	24.3	21.8	23.2	27.5	31.4	30.4	24.0	25.7	36.5	34.4	38.5	35.4	28.7	35.1	36.6	36.5	34.6	29.8	22.1	22.8	22.3	22.3	24.8	28.9
4	27.0	28.5	29.0	29.2	29.2	29.0	28.9	29.5	29.0	28.0	29.6	29.1	30.1	29.6	30.3	30.8	32.6	32.1	30.4	29.6	27.8	25.0	24.4	24.2	28.9
5	26.1	24.2	28.4	29.1	29.1	29.3	29.4	29.1	29.1	29.1	26.4	28.3	29.9	30.6	30.6	31.9	32.7	31.9	29.1	27.1	27.1	26.6	27.6	27.9	28.8
6	28.5	28.0	28.0	33.5	32.3	29.8	30.4	27.4	28.1	26.6	26.5	29.4	28.8	29.2	29.6	30.7	31.5	31.4	30.2	28.4	27.5	24.9	25.2	25.3	28.8
7	27.2	26.7	27.8	28.3	28.0	28.2	27.8	28.9	27.3	28.2	29.2	28.8	32.3	32.2	30.3	33.2	34.6	33.5	32.0	28.4	26.2	25.5	24.3	24.1	28.9
8	24.5	25.8	27.8	28.6	29.1	29.7	29.7	28.7	28.6	28.8	28.4	29.2	28.7	29.6	30.8	31.3	33.8	31.4	28.8	28.3	26.6	25.6	25.7	26.0	28.6
9 Q	26.1	26.3	26.8	27.4	27.8	28.4	28.4	28.4	28.4	28.7	28.6	28.5	28.9	28.9	29.0	30.5	31.8	33.2	32.4	30.9	28.5	26.6	25.6	24.8	28.5
10	25.1	25.9	26.8	27.4	28.5	28.7	28.6	29.2	28.6	28.9	29.7	30.3	28.8	26.7	29.5	31.5	32.8	33.0	32.6	30.7	29.2	24.8	20.2	21.0	28.3
11 D	18.2	25.5	25.0	29.2	30.4	31.5	31.9	35.4	38.4	42.0	44.2	37.6	30.9	28.2	20.1	17.7	5.9	20.2	22.8	22.8	25.5	21.5	22.3	25.0	27.2
12	26.6	27.6	28.3	28.7	28.4	29.0	29.3	29.0	28.8	28.9	29.6	29.5	29.4	29.3	29.3	30.9	31.9	32.5	32.8	30.8	28.6	27.5	26.2	26.3	29.1
13	26.8	25.8	26.5	27.6	27.8	28.4	28.0	27.8	27.8	27.0	29.3	29.4	29.5	29.6	27.2	29.9	30.9	31.2	30.9	30.3	29.2	28.4	26.7	25.8	28.4
14	27.0	26.6	26.7	27.5	27.5	28.1	28.5	29.1	28.5	28.8	29.5	28.5	30.3	30.5	29.2	30.0	31.9	32.5	30.9	29.3	28.1	27.4	26.7	25.1	28.7
15 D	24.5	25.4	26.7	32.1	28.8	28.1	29.2	28.9	28.6	25.2	24.3	27.6	29.5	30.5	28.5	30.3	31.9	31.2	30.0	25.4	22.9	25.3	26.3	26.9	27.8
16	25.6	26.2	26.3	26.9	27.7	30.6	31.0	27.9	22.6	29.0	29.6	30.0	31.3	32.2	30.7	30.9	29.7	29.1	29.1	28.5	28.5	28.0	26.5	26.9	28.5
17 Q	27.0	27.7	27.1	27.5	27.7	27.4	27.4	27.3	27.3	28.3	29.3	29.5	29.8	29.9	29.4	30.1	30.8	31.4	31.1	30.2	29.1	27.5	24.8	25.5	28.5
18 Q	27.2	27.2	27.2	27.3	27.9	27.6	27.7	27.6	27.5	27.7	27.9	28.1	28.6	28.9	29.6	30.7	31.5	30.9	29.4	27.9	26.0	25.8	25.5	25.7	28.0
19	26.2	25.9	26.6	26.5	27.3	25.7	26.1	26.9	26.8	27.3	28.0	28.9	25.5	31.5	31.1	33.4	33.5	34.7	33.5	30.9	28.0	27.0	25.6	25.3	28.4
20	25.7	26.7	27.3	27.4	27.8	28.3	27.7	27.7	27.6	28.1	28.8	29.1	29.2	27.9	29.5	31.2	31.7	30.3	30.5	30.7	29.0	27.6	26.8	23.8	28.3
21	25.7	26.6	27.4	27.8	28.3	28.7	33.0	28.0	27.4	27.2	27.4	28.4	28.4	29.3	29.2	30.9	33.0	34.2	32.5	31.6	28.6	26.7	25.3	23.5	28.7
22 Q	25.6	26.3	26.8	27.4	27.4	27.8	27.7	27.9	27.9	27.9	27.7	28.2	27.0	27.7	29.4	31.3	32.4	33.0	32.9	32.1	29.2	26.7	24.9	24.2	28.3
23	24.9	26.3	26.6	27.6	27.7	29.1	33.6	29.9	28.1	27.8	25.7	27.5	26.5	27.4	30.7	32.1	34.4	35.3	34.3	31.8	29.7	27.1	25.8	25.0	29.0
24	25.9	27.0	27.5	27.4	27.6	28.2	28.3	28.2	27.5	28.2	28.4	28.7	28.4	28.9	29.2	31.5	34.2	34.0	33.8	32.7	30.4	27.7	25.5	23.9	28.9
25	<u>23.5</u>	<u>25.0</u>	<u>26.8</u>	<u>27.1</u>	<u>27.7</u>	<u>27.7</u>	<u>28.1</u>	<u>28.2</u>	<u>28.4</u>	<u>28.2</u>	<u>28.1</u>	<u>26.6</u>	<u>27.9</u>	<u>29.1</u>	<u>29.3</u>	<u>30.6</u>	<u>32.2</u>	<u>33.0</u>	<u>31.5</u>	<u>31.7</u>	<u>29.3</u>	<u>27.0</u>	<u>26.0</u>	<u>24.6</u>	<u>28.2</u>
26	<u>25.0</u>	<u>25.9</u>	<u>26.4</u>	<u>28.6</u>	<u>27.0</u>	<u>28.4</u>	<u>28.2</u>	<u>29.0</u>	<u>33.9</u>	<u>31.9</u>	<u>30.4</u>	<u>31.9</u>	<u>29.0</u>	<u>28.6</u>	<u>30.2</u>	<u>30.6</u>	<u>32.2</u>	<u>34.8</u>	<u>30.9</u>	<u>28.4</u>	<u>27.0</u>	<u>25.3</u>	<u>25.3</u>	<u>25.3</u>	<u>28.9</u>
27 D	26.4	26.6	28.5	26.8	26.5	27.8	27.2	31.8	29.1	27.8	28.3	28.6	27.6	28.2	26.0	16.8	23.1	25.4	29.1	30.5	28.4	27.4	27.6	27.5	27.2
28	27.9	27.7	27.7	27.6	27.6	27.4	30.6	28.5	30.0	29.7	29.8	29.8	29.7	30.2	31.2	30.0	30.6	30.3	31.8	31.1	30.6	28.2	28.1	25.8	29.2
MEAN	25.9	26.5	27.0	28.0	28.2	28.6	29.0	28.6	28.5	29.0	29.1	29.5	29.2	29.3	29.4	30.1	31.2	32.0	31.2	28.7	27.6	26.1	25.3	25.1	28.5

VERTICAL INTENSITY

MEAN VALUES FOR PERIODS OF SIXTY MINUTES, UNIVERSAL TIME

TABLE 6 VICTORIA		Z = 53,000 GAMMA +																				FEBRUARY		1969		
HOUR =	00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23	MEAN	
	TO 01	TO 02	TO 03	TO 04	TO 05	TO 06	TO 07	TO 08	TO 09	TO 10	TO 11	TO 12	TO 13	TO 14	TO 15	TO 16	TO 17	TO 18	TO 19	TO 20	TO 21	TO 22	TO 23	TO 24		
DAY																										
1 Q	132	131	132	131	132	131	132	132	131	130	130	130	131	129	131	134	136	135	126	128	126	125	130	130	131	
2 D	131	130	129	130	131	129	131	131	129	125	127	124	123	126	128	131	129	117	84	79	98	113	131	169	124	
3 D	179	174	201	210	225	215	197	171	128	138	141	114	96	58	88	133	142	135	125	128	135	146	157	151	149	
4	147	145	146	143	145	145	145	149	150	146	147	146	145	142	140	142	138	141	139	139	133	129	133	137	142	
5	141	140	146	146	144	144	146	145	141	143	136	133	134	135	137	139	140	137	138	141	142	139	138	138	140	
6	141	143	141	144	147	150	155	151	145	140	126	136	141	139	139	140	140	142	139	142	142	142	138	139	142	
7	145	143	142	139	138	139	138	139	138	141	141	134	130	134	137	138	139	141	136	136	139	140	140	141	139	
8	140	142	144	144	141	143	144	143	143	141	142	142	139	138	137	139	139	136	136	135	134	135	136	138	140	
9 Q	142	142	140	139	138	137	137	136	138	138	138	138	137	137	135	136	138	138	133	131	129	128	130	133	136	
10	136	138	137	137	137	136	135	135	134	127	128	129	131	131	134	138	137	137	137	133	130	125	132	137	134	
11 D	156	188	176	164	154	152	141	109	92	47	-42	-52	-139	-85	-9	-35	-38	34	82	113	136	153	158	163	76	
12	156	155	154	153	149	149	147	147	146	145	145	145	144	144	144	145	147	146	143	144	141	137	135	139	146	
13	148	150	150	151	151	148	146	148	146	138	135	140	140	140	129	128	134	134	133	135	135	133	132	137	140	
14	141	141	143	142	143	143	143	143	141	140	137	130	126	129	134	138	141	138	136	136	132	127	122	127	136	
15 D	135	140	142	146	149	146	149	149	145	137	123	129	134	134	134	135	133	129	128	129	131	129	125	130	136	
16	135	137	139	141	141	145	145	145	126	133	136	134	122	121	128	131	133	132	133	133	135	132	129	130	134	
17 Q	131	134	133	135	135	136	137	137	136	136	135	137	135	135	134	137	141	143	141	140	137	132	130	130	136	
18 Q	132	132	133	133	134	134	134	136	135	135	134	135	133	133	134	134	135	132	134	133	130	126	127	132	133	
19	134	135	135	134	135	138	138	139	136	136	134	134	121	110	117	125	129	132	130	125	122	125	128	129	130	
20	133	132	132	131	133	136	137	137	135	134	133	131	127	126	127	133	130	124	117	111	108	111	116	125	127	
21	130	134	136	134	131	132	134	134	136	135	134	133	132	131	133	134	132	127	120	121	122	122	123	126	130	
22 Q	131	131	131	131	131	131	131	131	132	131	131	130	129	127	126	132	130	129	124	120	119	119	120	123	128	
23	128	131	131	131	130	131	134	131	132	131	127	120	119	116	121	131	130	123	112	109	110	115	118	126	124	
24	135	133	132	131	130	130	132	131	127	124	128	130	129	130	130	133	134	132	131	128	124	121	120	122	129	
25	<u>131</u>	<u>133</u>	<u>135</u>	<u>134</u>	<u>133</u>	<u>129</u>	<u>128</u>	<u>129</u>	<u>128</u>	<u>128</u>	<u>129</u>	<u>128</u>	<u>126</u>	<u>127</u>	<u>129</u>	<u>131</u>	<u>129</u>	<u>123</u>	<u>121</u>	<u>118</u>	<u>119</u>	<u>120</u>	<u>124</u>	<u>128</u>	<u>128</u>	
26	<u>132</u>	<u>135</u>	<u>136</u>	<u>135</u>	<u>138</u>	<u>139</u>	<u>138</u>	<u>135</u>	<u>127</u>	<u>123</u>	<u>129</u>	<u>132</u>	<u>129</u>	<u>129</u>	<u>129</u>	<u>132</u>	<u>129</u>	<u>121</u>	<u>113</u>	<u>109</u>	<u>114</u>	<u>119</u>	<u>124</u>	<u>130</u>	<u>128</u>	
27 D	131	132	133	136	135	136	133	137	130	131	130	129	127	125	116	98	88	98	103	116	126	130	134	137	125	
28	141	144	143	144	145	146	150	133	133	136	136	138	133	132	131	131	126	121	118	110	108	115	124	135	132	
MEAN	139	141	142	142	142	142	141	139	134	132	128	126	121	120	125	127	127	128	125	126	127	128	131	135	132	

HORIZONTAL INTENSITY

MEAN VALUES FOR PERIODS OF SIXTY MINUTES, UNIVERSAL TIME

TABLE 7 VICTORIA

H = 18,500 GAMMA +

MARCH

1969

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	382	405	407	407	409	412	411	415	416	416	418	416	416	419	419	419	406	384	398	399	387	385	385	380	405	
2	376	391	406	406	400	410	413	413	414	415	417	416	415	420	416	415	413	405	397	389	381	380	387	396	404	
3 Q	409	415	417	419	416	419	418	420	421	424	421	424	424	426	425	421	415	408	395	384	379	384	392	404	412	
4 Q	413	417	419	421	422	420	420	422	422	423	425	427	426	427	428	425	419	409	402	391	391	393	393	405	415	
5	414	423	425	423	424	427	430	430	432	433	430	435	430	428	428	431	427	413	394	383	386	394	405	420	419	
6	412	422	427	420	423	426	423	430	423	421	427	425	428	427	427	424	417	399	396	392	380	379	390	405	414	
7	409	413	401	404	420	404	409	416	418	423	426	427	425	439	431	435	425	403	380	387	382	389	387	396	410	
8	400	409	406	415	412	409	412	412	415	416	416	415	421	426	425	424	417	405	394	389	387	386	386	378	407	
9	402	413	414	416	416	415	423	424	427	415	418	427	423	426	422	419	419	417	398	392	392	393	394	407	413	
10 Q	421	420	425	424	417	422	419	419	423	424	422	425	426	428	430	435	436	433	423	406	404	398	399	404	420	
11	416	425	420	426	428	421	419	413	409	406	406	416	410	423	417	416	417	412	402	352	349	365	382	380	405	
12 D	385	402	389	382	370	379	386	373	374	388	382	408	409	405	401	397	385	378	381	385	389	392	400	402	389	
13	406	409	409	408	413	411	414	413	415	416	417	420	417	416	416	417	408	402	397	391	389	384	389	400	407	
14	410	410	406	406	413	415	415	421	420	422	425	421	422	423	419	414	410	405	387	383	379	374	396	407	408	
15	418	409	401	409	406	406	402	395	408	395	405	415	413	417	416	418	423	405	393	391	392	386	389	403	405	
16	409	412	415	419	410	403	404	396	390	398	417	422	422	419	421	423	412	401	389	386	384	391	405	415	407	
17 D	434	410	381	396	398	376	390	409	410	414	415	411	389	416	413	405	378	380	386	381	364	369	386	396	396	
18	406	414	414	409	401	400	410	386	398	417	420	423	420	422	423	423	413	399	402	393	385	374	390	391	406	
19	414	421	419	419	419	420	420	417	412	417	427	430	430	430	430	428	416	407	395	391	397	397	386	399	414	
20	398	413	364	389	403	402	403	406	404	413	420	417	414	413	413	412	398	382	394	396	382	374	366	378	398	
21	388	390	401	407	405	400	407	427	410	418	422	422	425	426	425	422	412	397	389	367	367	367	379	395	403	
22	410	413	410	403	408	418	424	420	416	408	408	413	431	422	418	418	416	404	385	379	374	380	387	385	406	
23 D	402	410	414	421	418	422	425	426	425	424	431	431	432	432	432	421	423	414	348	332	321	290	347	402	402	
24 D	405	423	600	395	354	390	376	260	165	155	60	125	373	387	369	364	365	361	355	360	365	370	419	422	342	
25 D	<u>375</u>	<u>376</u>	<u>384</u>	<u>382</u>	<u>384</u>	<u>385</u>	<u>393</u>	<u>380</u>	<u>383</u>	<u>390</u>	<u>395</u>	<u>393</u>	<u>389</u>	<u>381</u>	<u>374</u>	<u>395</u>	<u>391</u>	<u>380</u>	<u>367</u>	<u>369</u>	<u>377</u>	<u>376</u>	<u>373</u>	<u>377</u>	<u>382</u>	
26	<u>390</u>	<u>393</u>	<u>399</u>	<u>399</u>	<u>401</u>	<u>401</u>	<u>405</u>	<u>403</u>	<u>410</u>	<u>409</u>	<u>413</u>	<u>416</u>	<u>412</u>	<u>409</u>	<u>403</u>	<u>405</u>	<u>403</u>	<u>389</u>	<u>378</u>	<u>374</u>	<u>374</u>	<u>381</u>	<u>380</u>	<u>381</u>	<u>397</u>	
27 Q	<u>392</u>	<u>399</u>	<u>405</u>	<u>406</u>	<u>402</u>	<u>405</u>	<u>407</u>	<u>413</u>	<u>418</u>	<u>418</u>	<u>419</u>	<u>421</u>	<u>423</u>	<u>420</u>	<u>420</u>	<u>418</u>	<u>416</u>	<u>406</u>	<u>396</u>	<u>390</u>	<u>389</u>	<u>387</u>	<u>393</u>	<u>399</u>	<u>407</u>	
28 Q	<u>407</u>	<u>411</u>	<u>418</u>	<u>414</u>	<u>415</u>	<u>416</u>	<u>419</u>	<u>420</u>	<u>426</u>	<u>429</u>	<u>430</u>	<u>429</u>	<u>429</u>	<u>431</u>	<u>423</u>	<u>425</u>	<u>416</u>	<u>411</u>	<u>412</u>	<u>405</u>	<u>404</u>	<u>403</u>	<u>408</u>	<u>412</u>	<u>417</u>	
29	422	425	425	422	420	422	414	418	410	413	420	425	421	424	416	413	416	412	407	392	382	387	387	391	412	
30	399	400	415	416	408	413	414	419	423	429	423	425	424	422	422	409	378	364	375	388	394	399	414	408		
31	411	421	402	417	426	427	427	430	432	433	434	440	435	430	426	430	424	398	366	380	379	377	385	402	414	
MEAN	404	410	414	410	408	410	411	408	405	407	407	412	419	421	418	417	411	400	389	383	381	381	389	398	405	

RECORD OF OBSERVATIONS AT VICTORIA MAGNETIC OBSERVATORY 1969

DECLINATION

MEAN VALUES FOR PERIODS OF SIXTY MINUTES, UNIVERSAL TIME

TABLE 8 VICTORIA

D = 22 DEG 00.0 MIN EAST +

MARCH 1969

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	25.4	25.9	26.9	27.7	27.7	28.1	28.0	28.3	28.0	28.2	28.6	29.1	29.1	28.7	30.1	31.1	30.3	26.1	24.9	27.0	25.3	25.5	25.0	26.0	27.5	
2	25.7	25.6	29.1	26.8	27.9	27.4	27.4	28.3	28.2	28.7	29.0	26.0	24.3	26.8	29.9	31.7	32.5	32.7	31.3	30.2	29.2	28.3	27.2	26.6	28.4	
3 Q	27.1	27.3	27.2	27.7	27.4	27.6	27.5	27.7	27.5	28.1	28.0	28.4	28.1	28.8	28.9	30.4	31.5	33.1	32.4	31.1	28.2	25.9	24.6	24.6	28.3	
4 Q	25.8	26.6	27.0	27.4	27.2	27.6	27.7	27.6	28.0	27.9	27.8	28.0	28.3	28.0	29.4	30.8	32.2	32.3	31.2	27.7	25.8	22.9	21.6	22.1	27.5	
5	25.5	26.7	27.2	27.5	27.9	27.4	27.2	27.4	27.3	27.4	28.0	28.8	30.5	31.5	32.2	32.1	32.5	34.0	33.0	31.5	28.2	25.6	24.1	23.4	28.6	
6	25.4	25.7	25.4	26.8	27.0	27.4	27.5	28.4	28.7	28.4	28.7	31.3	30.0	29.8	30.4	29.7	30.4	29.6	29.9	29.7	27.6	25.4	24.0	24.1	28.0	
7	24.5	25.3	26.7	27.1	26.5	28.3	28.9	28.7	29.9	27.9	27.3	28.7	29.1	25.7	26.1	30.5	33.1	32.4	28.7	26.8	24.3	23.7	25.2	23.6	27.5	
8	24.6	24.8	25.7	27.1	28.9	27.9	27.9	28.7	28.8	28.4	29.9	29.2	26.5	29.2	29.8	31.7	32.5	33.1	31.3	30.2	27.6	27.1	25.7	24.1	28.4	
9	24.3	24.7	25.2	25.4	25.9	27.6	28.5	28.4	30.1	31.8	30.3	29.7	30.5	29.5	32.1	31.6	31.0	33.6	31.4	30.7	29.6	27.9	26.8	25.5	28.8	
10 Q	24.9	25.4	26.1	25.5	26.6	26.6	27.4	27.9	28.8	30.5	28.8	28.4	28.4	28.3	29.2	30.5	31.5	33.1	33.5	31.7	29.3	27.7	26.8	25.1	28.4	
11	25.0	24.9	25.9	26.6	26.6	26.2	29.4	28.8	33.6	33.4	31.9	33.8	37.2	32.7	31.4	30.3	31.9	33.3	32.2	29.6	23.7	22.8	21.9	21.7	28.9	
12 D	24.2	25.9	25.1	28.9	24.8	28.8	27.1	33.8	39.0	31.8	29.3	29.9	28.7	29.1	27.3	28.5	25.6	30.1	31.7	30.4	28.7	26.8	24.5	24.4	28.5	
13	25.5	29.6	27.5	27.0	27.2	27.5	29.0	28.5	28.0	28.7	28.8	29.1	28.4	29.4	30.4	32.0	32.7	32.4	31.1	28.9	26.2	24.4	23.0	23.3	28.3	
14	24.5	23.7	23.4	24.8	26.6	26.9	27.4	27.7	28.1	28.5	28.8	29.9	29.5	29.6	31.1	32.0	32.9	33.6	31.0	28.7	26.5	23.8	21.1	21.2	27.6	
15	22.0	22.4	26.2	24.0	25.3	29.2	28.0	29.7	29.5	34.5	31.2	32.0	32.9	32.8	32.7	29.3	31.1	34.5	29.5	27.8	26.6	25.7	25.2	24.8	28.6	
16	26.6	27.1	27.0	26.6	28.2	33.6	24.9	32.6	32.5	34.9	34.9	31.2	31.8	32.6	30.6	31.5	33.2	34.5	33.1	31.7	28.3	25.9	24.6	24.2	30.1	
17 D	22.2	20.5	20.9	26.3	25.6	31.3	27.6	27.6	27.8	27.6	31.3	30.7	24.1	32.1	32.4	35.5	35.1	24.5	24.5	26.5	26.2	23.8	24.8	25.6	27.3	
18	26.5	27.1	27.6	29.9	29.6	29.2	32.6	32.3	32.2	28.3	28.3	28.8	29.0	29.6	30.7	32.0	33.5	31.8	32.1	32.4	29.5	27.2	25.7	26.6	29.7	
19	26.4	26.9	27.1	27.3	27.5	27.3	27.3	32.5	30.8	29.0	27.7	28.0	28.6	29.4	31.2	33.7	35.7	35.9	33.6	29.9	27.4	24.2	20.1	16.3	28.5	
20	20.8	18.2	23.6	26.7	27.9	27.7	28.1	33.8	27.5	28.7	28.4	29.0	28.9	30.2	30.0	33.1	33.0	30.3	26.9	26.5	24.3	22.8	19.8	20.6	26.9	
21	23.8	24.6	24.3	26.2	27.1	27.9	31.1	31.9	30.3	29.0	27.7	26.1	27.5	28.6	30.4	32.7	35.1	35.8	34.8	32.5	26.2	23.1	22.0	22.0	28.4	
22	22.2	23.1	23.9	27.8	26.6	27.5	27.7	28.4	34.6	32.8	32.8	29.8	29.0	29.2	29.8	31.3	33.7	36.2	36.2	30.7	26.0	23.2	21.9	20.2	28.5	
23 D	23.3	25.0	26.4	27.4	27.4	27.6	27.9	28.3	28.2	28.4	28.2	28.8	28.9	29.8	30.7	32.2	32.7	36.2	40.7	35.8	37.0	31.5	20.8	17.0	29.2	
24 D	<u>15.5</u>	<u>17.9</u>	<u>17.9</u>	<u>19.1</u>	<u>22.8</u>	<u>24.2</u>	<u>29.9</u>	<u>31.7</u>	<u>37.7</u>	<u>48.8</u>	<u>53.9</u>	<u>34.2</u>	<u>28.4</u>	<u>30.4</u>	<u>30.4</u>	<u>32.1</u>	<u>33.2</u>	<u>33.2</u>	<u>31.5</u>	<u>30.1</u>	<u>28.8</u>	<u>27.9</u>	<u>28.0</u>	<u>27.7</u>	<u>29.8</u>	
25 D	<u>27.9</u>	<u>27.9</u>	<u>28.2</u>	<u>28.6</u>	<u>29.0</u>	<u>29.4</u>	<u>29.0</u>	<u>34.8</u>	<u>36.6</u>	<u>34.1</u>	<u>32.7</u>	<u>30.9</u>	<u>31.5</u>	<u>30.1</u>	<u>28.8</u>	<u>32.3</u>	<u>33.2</u>	<u>33.2</u>	<u>30.4</u>	<u>27.5</u>	<u>27.1</u>	<u>27.3</u>	<u>27.5</u>	<u>27.7</u>	<u>30.2</u>	
26	<u>27.5</u>	<u>28.2</u>	<u>27.1</u>	<u>27.1</u>	<u>27.9</u>	<u>27.7</u>	<u>27.5</u>	<u>27.9</u>	<u>31.5</u>	<u>28.4</u>	<u>27.5</u>	<u>27.5</u>	<u>29.4</u>	<u>29.7</u>	<u>27.9</u>	<u>29.0</u>	<u>32.8</u>	<u>31.5</u>	<u>32.8</u>	<u>30.1</u>	<u>28.8</u>	<u>26.3</u>	<u>24.2</u>	<u>23.9</u>	<u>28.4</u>	
27 Q	<u>23.5</u>	<u>24.6</u>	<u>25.0</u>	<u>26.1</u>	<u>26.3</u>	<u>26.5</u>	<u>26.1</u>	<u>26.5</u>	<u>27.9</u>	<u>27.7</u>	<u>27.9</u>	<u>27.5</u>	<u>27.7</u>	<u>27.7</u>	<u>27.9</u>	<u>30.1</u>	<u>32.6</u>	<u>34.1</u>	<u>32.8</u>	<u>31.2</u>	<u>29.4</u>	<u>27.1</u>	<u>26.1</u>	<u>24.6</u>	<u>27.8</u>	
28 Q	<u>24.4</u>	<u>24.4</u>	<u>25.7</u>	<u>26.1</u>	<u>26.8</u>	<u>27.7</u>	<u>27.1</u>	<u>27.5</u>	<u>27.5</u>	<u>27.9</u>	<u>27.7</u>	<u>27.5</u>	<u>28.4</u>	<u>28.6</u>	<u>29.0</u>	<u>30.4</u>	<u>32.6</u>	<u>32.7</u>	<u>32.8</u>	<u>31.9</u>	<u>29.2</u>	<u>27.3</u>	<u>25.7</u>	<u>23.9</u>	<u>28.0</u>	
29	23.9	24.5	25.0	26.5	26.6	27.0	27.5	31.0	30.9	30.5	31.2	29.1	26.3	27.2	26.5	27.7	30.7	31.2	32.3	32.8	31.7	28.4	25.2	24.5	28.3	
30	22.4	24.7	26.0	27.6	29.2	28.1	27.8	28.1	26.5	28.3	28.5	28.7	28.6	28.8	30.4	32.7	35.1	36.2	30.2	26.8	26.0	25.2	23.6	23.6	28.0	
31	25.5	26.1	27.8	28.5	26.7	27.3	26.9	28.0	27.3	27.0	26.9	27.9	27.9	27.1	30.9	34.4	36.3	36.8	33.9	28.6	26.9	26.6	25.6	25.0	28.6	
MEAN	24.4	25.0	25.7	26.7	27.1	27.9	28.0	29.4	30.1	30.2	30.1	29.3	29.0	29.4	30.0	31.4	32.6	32.8	31.7	29.9	27.7	25.8	24.3	23.7	28.4	

VERTICAL INTENSITY

MEAN VALUES FOR PERIODS OF SIXTY MINUTES, UNIVERSAL TIME

TABLE 9 VICTORIA

Z = 53,000 GAMMA +

MARCH 1969

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	136	137	137	137	137	139	137	136	136	133	132	134	132	132	131	134	132	130	127	120	116	118	122	130	131
2	137	144	151	153	152	148	142	141	138	136	136	128	116	119	128	137	139	139	137	136	135	135	137	137	138
3 Q	140	138	137	136	135	137	136	136	134	134	133	133	133	131	133	135	138	141	136	131	128	125	124	130	134
4 Q	132	134	134	135	140	138	138	139	137	136	135	135	133	132	133	136	136	133	125	117	117	121	121	124	132
5	128	129	130	129	128	128	129	129	128	127	125	118	108	114	120	124	124	124	123	122	119	118	121	123	124
6	124	127	129	130	131	133	132	131	128	130	120	110	119	123	125	128	127	124	122	118	113	113	119	126	124
7	128	132	136	139	144	148	144	146	145	138	130	131	129	122	96	99	107	106	107	110	116	121	123	127	126
8	133	135	140	144	144	143	141	139	138	131	131	130	123	129	131	134	133	131	131	125	124	126	130	129	133
9	133	140	140	139	140	144	140	138	135	130	135	134	130	119	109	118	123	125	121	119	121	120	124	127	129
10 Q	133	133	133	132	131	133	135	135	136	130	131	132	132	132	132	133	130	131	126	123	123	122	122	127	130
11	130	133	134	135	135	134	139	140	135	132	127	110	101	114	118	125	130	128	117	105	114	128	137	157	127
12 D	176	177	185	189	180	181	111	126	132	106	60	111	135	134	132	129	122	121	127	127	126	129	134	136	137
13	139	146	145	143	140	140	138	139	137	138	136	135	131	134	137	138	138	135	132	131	124	128	136	140	137
14	143	142	143	144	145	144	141	141	139	137	134	133	134	134	133	135	135	132	126	122	119	118	124	129	134
15	139	143	151	157	158	159	154	154	123	116	116	99	111	117	115	110	109	115	112	119	119	125	134	140	129
16	139	136	133	136	140	146	138	133	116	100	85	123	129	133	138	136	133	130	126	121	116	116	121	130	127
17 D	146	154	163	156	163	184	171	152	146	132	126	128	78	86	130	139	130	115	108	114	116	131	136	138	135
18	141	139	140	142	147	149	141	130	137	131	118	123	128	132	136	138	136	133	131	127	121	124	131	133	134
19	135	138	137	135	133	133	132	134	124	130	132	133	131	130	131	132	131	126	118	116	110	112	111	116	128
20	141	169	196	169	151	147	147	153	149	146	127	137	136	135	133	131	125	122	118	118	117	127	135	148	141
21	156	152	155	154	152	153	152	135	128	132	125	122	123	131	133	137	139	136	129	121	119	116	124	129	136
22	137	142	142	147	148	144	140	141	138	128	128	127	121	117	122	121	125	123	113	105	104	114	120	128	128
23 D	136	136	137	138	136	135	135	136	135	135	133	133	133	132	132	131	125	119	104	103	103	111	206	269	137
24 D	308	334	381	310	273	250	248	159	85	-47	-152	-125	55	150	167	174	176	173	171	173	173	173	173	170	165
25 D	165	162	161	156	154	153	157	151	124	112	146	152	147	144	128	143	142	135	138	133	142	150	161	172	147
26	175	170	160	150	148	142	144	146	148	144	140	129	134	139	135	138	144	140	132	136	140	141	153	158	145
27 Q	157	155	151	151	145	145	144	143	142	140	141	138	139	141	142	143	145	141	135	135	137	137	142	143	143
28 Q	148	148	148	146	144	140	140	139	139	138	136	136	137	138	136	137	138	134	129	124	124	127	127	132	137
29	131	134	138	137	136	137	138	137	135	132	129	135	131	128	132	128	134	133	136	129	126	130	135	145	134
30	157	151	154	151	150	148	145	147	141	136	135	138	138	139	140	145	142	130	126	127	127	126	125	130	140
31	133	142	145	149	143	141	140	140	133	129	126	127	127	129	129	138	137	125	118	121	121	123	125	133	132
MEAN	147	150	154	151	148	148	144	140	134	125	118	120	124	129	130	133	133	130	126	123	123	126	133	141	135

HORIZONTAL INTENSITY

MEAN VALUES FOR PERIODS OF SIXTY MINUTES, UNIVERSAL TIME

TABLE 10 VICTORIA

H = 18,500 GAMMA +

APRIL

1969

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	419	427	430	425	415	423	426	425	427	426	431	430	418	426	429	417	387	351	345	329	345	369	381	400	404	
2	413	410	411	417	419	420	418	423	424	425	429	427	424	427	424	415	386	364	381	373	344	356	366	385	403	
3	395	396	403	401	397	405	406	414	414	415	415	418	418	418	417	411	393	375	356	346	351	357	370	393	395	
4	401	406	408	428	412	407	420	417	418	420	418	415	418	424	423	418	408	387	369	360	363	368	380	405	404	
5	409	409	416	421	418	419	430	407	405	406	412	421	420	422	425	422	408	395	390	386	379	377	391	405	408	
6	418	420	425	421	417	419	425	420	431	428	429	432	431	431	430	429	427	409	390	376	378	393	383	394	415	
7	411	410	408	407	411	391	386	413	406	411	417	420	422	414	413	415	403	389	369	375	392	397	398	410	404	
8	410	417	416	415	415	419	423	421	425	425	428	426	424	428	428	431	428	416	406	393	390	390	396	402	416	
9	418	418	426	429	424	413	413	417	423	422	423	419	412	416	422	412	404	398	383	377	387	398	401	410	411	
10 Q	408	418	422	426	427	431	419	419	421	424	423	423	426	426	424	421	408	400	399	403	394	396	400	410	415	
11	417	416	428	425	428	426	431	419	406	412	418	424	434	435	428	416	405	393	392	394	397	404	407	411	415	
12	419	421	424	423	423	427	423	426	430	430	433	433	438	435	435	432	421	405	410	412	417	422	416	441	425	
13 D	434	416	407	423	429	439	431	437	429	434	432	432	417	404	407	408	390	355	352	361	364	378	396	416	408	
14	427	449	399	405	409	416	414	417	422	421	422	416	418	424	425	411	402	381	368	365	368	383	392	401	406	
15	406	396	412	414	422	421	422	429	434	424	414	427	423	422	418	415	405	389	382	385	394	401	405	407	411	
16	417	424	425	421	418	419	429	412	423	426	426	422	424	427	421	412	402	382	389	389	386	393	401	418	413	
17 D	405	425	397	405	418	422	413	418	405	414	422	415	420	414	405	383	386	378	361	365	375	379	395	418	402	
18	420	414	418	413	406	416	420	414	418	420	426	419	414	422	420	415	405	393	387	383	389	404	396	393	409	
19 Q	414	412	425	421	424	423	425	426	429	429	432	433	434	430	431	426	412	397	392	400	401	407	409	410	418	
20	423	415	419	422	425	427	426	426	429	430	430	436	436	434	434	436	427	417	411	403	405	401	404	404	422	
21 Q	406	413	415	422	425	426	428	424	428	430	435	434	438	441	446	445	436	421	411	408	402	409	411	412	424	
22	432	445	453	455	456	466	457	431	436	437	441	444	440	437	444	449	440	425	418	417	408	404	409	415	436	
23 Q	425	429	427	431	430	429	431	436	436	443	439	440	443	436	438	445	434	427	419	413	408	408	412	420	429	
24	429	432	419	426	430	435	429	437	439	440	441	440	442	447	453	454	442	432	424	414	418	421	421	425	433	
25	441	412	428	434	429	427	434	437	436	436	441	440	442	438	435	435	435	419	404	405	410	411	426	425	428	
26 Q	431	431	432	435	433	431	431	436	435	438	441	440	440	438	441	433	429	420	409	405	416	412	409	418	429	
27	430	424	412	421	427	420	424	423	431	434	439	438	438	441	435	440	432	415	408	412	410	424	433	439	427	
28 D	447	445	446	456	454	467	419	401	379	403	379	415	407	373	398	412	396	405	404	404	410	417	415	420	416	
29	413	419	413	412	413	409	414	425	422	415	418	418	421	423	423	410	410	415	413	390	396	401	409	393	412	
30 D	401	410	429	411	389	411	399	408	416	427	418	420	413	402	402	386	394	385	379	381	398	405	409	425	405	
MEAN	418	419	420	422	421	423	422	422	423	425	426	427	427	425	426	422	412	398	391	387	390	396	401	411	415	

DECLINATION

MEAN VALUES FOR PERIODS OF SIXTY MINUTES, UNIVERSAL TIME

TABLE 11 VICTORIA

D = 22 DEG 00.0 MIN EAST +

APRIL 1969

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	25.3	25.4	26.2	26.4	27.1	25.5	26.7	28.0	28.0	27.2	27.5	32.5	33.3	31.6	32.0	34.3	37.7	31.4	31.6	25.7	20.5	22.1	25.0	22.7	28.1
2	24.1	26.1	27.0	26.4	27.0	27.3	27.1	27.5	28.0	28.3	29.1	31.1	28.8	29.0	32.6	35.0	34.5	30.2	28.5	31.1	28.4	23.3	22.0	20.0	28.0
3	20.5	24.4	24.2	25.3	26.8	27.2	28.5	28.8	27.4	28.3	28.2	28.6	28.2	30.0	32.0	35.7	37.6	36.9	34.5	32.8	27.6	25.5	23.4	22.9	28.6
4	23.0	24.5	26.6	30.4	28.3	27.2	28.2	27.9	26.7	27.6	29.8	26.0	25.9	28.3	31.6	33.0	35.1	36.7	35.5	32.2	28.8	25.7	23.6	22.9	28.6
5	23.3	24.8	26.1	27.2	27.5	28.9	27.7	31.6	31.0	31.1	30.7	29.6	29.7	29.6	30.4	31.6	34.5	33.6	31.8	30.9	28.1	25.8	24.3	22.5	28.8
6	22.7	23.9	24.8	24.9	24.9	27.0	26.8	27.9	30.6	28.6	27.8	28.1	28.5	28.9	30.9	32.8	34.2	35.8	34.0	30.2	25.2	23.4	21.9	19.8	27.6
7	20.5	22.7	22.3	26.0	26.4	28.0	32.7	29.5	31.8	29.4	28.0	27.9	27.2	29.4	30.4	32.6	32.2	31.3	29.0	26.2	24.5	24.1	23.4	21.8	27.4
8	23.0	23.4	24.8	27.2	27.4	27.5	27.4	28.0	28.4	29.2	28.6	28.1	28.5	28.0	28.9	29.9	30.8	31.7	31.6	29.9	28.7	26.1	24.3	24.8	27.8
9	24.0	24.7	25.2	26.2	26.6	25.3	28.0	28.4	29.6	32.2	32.8	34.6	32.9	32.9	33.5	32.1	31.5	31.8	29.1	26.0	24.8	24.1	24.8	23.1	28.5
10 Q	25.2	25.1	25.6	26.8	26.7	26.8	27.0	26.3	29.9	30.3	28.8	31.6	30.6	30.3	31.7	32.6	34.3	30.0	28.6	27.4	26.2	24.5	23.1	22.0	28.0
11	22.7	24.7	25.0	25.9	25.1	26.0	25.2	27.6	31.4	32.2	32.4	30.9	31.9	33.1	33.3	33.2	33.7	32.5	29.1	26.8	26.2	25.7	25.7	25.0	28.5
12	24.7	24.5	25.6	26.4	27.0	26.8	26.8	27.2	26.9	28.6	27.9	27.5	28.7	29.8	31.2	32.4	33.5	34.0	30.3	28.9	27.6	27.4	23.9	24.4	28.0
13 D	20.2	21.2	22.5	24.2	24.8	25.0	28.7	25.9	25.0	26.0	27.8	28.7	29.4	30.4	35.1	37.5	38.0	36.6	26.7	25.0	25.6	24.4	23.7	23.9	27.3
14	22.5	22.2	27.3	26.3	26.8	26.9	27.1	27.4	27.6	27.8	28.7	28.0	27.9	31.2	32.8	34.5	35.1	34.9	32.7	28.6	26.5	24.1	21.5	20.2	27.9
15	21.2	22.6	25.1	27.5	30.6	29.4	26.6	28.4	29.0	28.9	28.8	28.4	33.1	33.3	34.6	35.6	36.3	34.8	31.0	27.9	25.6	24.3	23.3	23.1	28.7
16	22.7	23.2	24.8	25.0	25.1	26.0	25.0	26.7	29.6	28.1	28.9	27.8	25.3	31.9	34.2	35.4	36.1	36.4	30.6	27.9	26.2	21.6	21.0	18.7	27.4
17 D	20.3	20.6	21.3	25.9	26.6	27.2	21.1	29.6	31.8	27.2	24.0	27.9	32.3	31.7	32.5	31.3	31.6	32.4	28.9	23.6	22.9	21.9	21.1	21.2	26.5
18	21.5	21.4	26.1	28.1	26.6	31.5	28.2	30.6	28.3	27.6	27.3	26.1	25.4	27.2	30.3	31.8	33.2	34.0	31.5	28.8	25.5	23.0	21.3	20.8	27.3
19 Q	22.1	25.0	25.9	26.6	26.9	27.1	27.2	27.2	27.3	27.4	27.2	28.0	27.8	28.4	31.1	34.4	36.0	35.2	32.3	28.7	25.8	23.3	21.6	20.8	27.6
20	21.0	23.8	24.9	26.3	26.8	27.0	28.7	28.1	27.9	27.9	28.2	28.0	28.6	30.1	31.7	34.2	36.9	37.1	34.4	31.9	28.2	25.1	23.4	23.4	28.5
21 Q	23.6	24.4	26.0	26.7	27.7	27.5	27.7	27.6	27.7	27.4	27.6	27.5	28.3	29.1	30.4	32.6	34.9	35.3	33.4	29.5	26.4	23.3	21.9	20.9	27.8
22	20.3	21.6	23.0	24.1	23.9	24.0	24.9	28.5	28.8	29.1	27.0	25.2	29.9	30.0	31.6	33.5	35.4	36.3	35.3	31.8	28.1	24.7	23.1	22.3	27.6
23 Q	23.0	24.9	26.2	26.4	27.5	27.5	28.4	27.6	27.3	27.1	27.6	27.0	26.1	27.4	30.1	32.5	34.6	35.0	31.8	30.0	27.0	24.0	22.2	21.0	27.6
24	21.9	23.3	25.3	27.0	26.9	26.9	29.6	27.3	27.0	27.2	27.5	28.0	28.6	29.8	30.8	32.4	33.8	34.7	32.6	30.1	27.1	25.5	24.7	23.9	28.0
25	22.9	26.3	25.6	26.8	26.4	27.7	30.4	28.9	27.0	26.8	26.9	27.0	27.5	28.4	29.8	31.8	33.0	33.5	30.4	26.4	24.2	23.8	23.3	23.6	27.4
26 Q	24.2	26.2	28.5	27.0	26.3	27.0	27.2	27.3	27.1	27.1	27.3	28.0	27.9	30.9	32.0	33.7	34.2	33.8	32.4	27.9	25.2	24.0	23.0	22.2	27.9
27	23.7	25.0	28.2	29.2	29.5	28.2	28.9	28.8	28.0	27.4	28.3	30.7	28.8	29.7	30.2	33.2	33.5	33.3	31.0	27.0	24.7	22.6	21.8	22.1	28.1
28 D	23.2	24.0	24.7	24.9	24.0	28.5	26.0	40.3	25.1	34.2	37.3	36.5	39.0	36.9	33.9	33.4	36.0	33.1	28.6	26.6	25.6	25.4	26.0	24.7	29.9
29	26.4	25.5	26.2	26.3	26.0	26.6	27.6	27.1	27.7	28.4	28.6	29.5	30.1	32.2	33.7	35.0	33.7	32.5	30.6	27.6	24.5	23.3	22.2	21.5	28.0
30 D	22.6	22.6	26.2	26.3	28.5	27.6	31.0	29.2	27.5	25.6	28.0	28.7	29.2	23.4	26.0	27.6	30.2	29.3	27.7	23.4	21.2	21.1	21.7	22.0	26.1
MEAN	22.7	23.9	25.4	26.5	26.7	27.2	27.5	28.5	28.3	28.5	28.6	28.9	29.3	30.1	31.6	33.2	34.4	33.8	31.2	28.4	25.9	24.1	23.1	22.3	27.9

VERTICAL INTENSITY

MEAN VALUES FOR PERIODS OF SIXTY MINUTES, UNIVERSAL TIME

TABLE 12 VICTORIA

Z = 53,000 GAMMA +

APRIL

1969

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	141	139	137	142	143	145	151	152	149	136	114	123	123	134	140	143	135	117	109	119	131	137	151	139	135
2	145	143	143	143	142	142	142	141	141	139	136	133	132	128	131	138	134	129	128	127	125	136	144	156	137
3	171	193	174	166	158	153	150	148	143	144	144	143	136	137	140	141	137	133	130	133	134	137	138	143	147
4	149	154	156	156	150	152	150	146	139	123	120	117	109	115	134	138	138	134	130	129	131	131	131	134	136
5	139	140	144	144	142	144	135	124	139	138	137	139	137	137	137	138	140	135	131	127	124	124	128	130	136
6	139	142	146	146	145	146	143	143	138	138	138	137	135	135	132	131	131	122	118	119	120	123	123	132	134
7	152	158	159	168	164	160	163	149	147	147	143	140	127	115	118	129	129	120	116	126	137	140	140	143	141
8	148	152	152	151	147	144	143	143	143	143	134	137	137	134	130	130	126	125	121	122	124	127	131	130	136
9	135	135	141	144	142	147	152	150	147	137	123	120	120	119	114	104	97	97	100	107	122	131	129	134	127
10 Q	134	137	138	140	138	137	140	133	136	138	133	126	131	134	133	136	137	128	124	122	118	120	124	128	132
11	136	137	142	142	142	140	142	145	139	135	137	133	123	130	137	134	131	122	119	120	127	134	133	132	134
12	135	137	140	139	137	137	137	137	138	136	137	135	135	136	139	138	141	136	130	128	129	129	127	133	135
13 D	144	158	162	154	148	153	155	153	149	147	140	133	124	116	106	104	101	102	103	109	120	139	159	172	135
14	178	199	182	157	148	150	145	143	143	141	139	134	127	134	140	141	136	129	123	124	128	138	143	140	144
15	151	150	150	155	158	152	148	148	125	119	121	112	102	127	134	141	140	128	119	119	126	129	127	129	134
16	132	139	142	145	148	155	141	125	138	140	136	126	113	122	128	129	127	119	113	110	111	126	137	140	131
17 D	148	166	164	156	150	153	131	131	132	134	119	111	107	99	96	99	99	101	105	110	123	132	139	147	127
18	163	166	180	166	155	151	129	130	138	140	137	135	125	126	131	132	133	130	128	121	120	123	126	129	138
19 Q	140	144	150	143	141	139	139	138	137	138	137	137	136	131	131	136	132	125	119	119	120	126	127	123	134
20	137	138	143	139	138	139	139	139	139	138	137	136	134	131	132	133	132	124	115	103	105	110	114	120	130
21 Q	127	135	134	136	137	135	135	134	135	133	133	132	132	132	131	132	128	122	116	115	107	104	109	115	127
22	126	130	131	128	127	126	128	132	134	131	131	123	120	129	130	130	125	119	117	110	102	102	110	118	123
23 Q	124	130	131	131	131	131	131	131	129	132	130	131	130	123	124	124	122	111	108	111	116	116	115	119	124
24	125	134	138	138	137	135	132	134	133	131	131	130	133	132	132	130	125	115	108	107	111	112	117	127	129
25	137	137	139	137	132	132	131	127	129	131	132	131	126	126	129	132	131	127	116	114	118	123	130	136	129
26 Q	138	140	139	136	131	129	129	130	130	129	130	127	130	132	131	133	134	128	125	121	123	120	119	123	129
27	134	143	145	139	137	137	138	136	135	132	122	113	126	130	126	121	123	114	113	111	108	110	113	120	126
28 D	129	129	131	133	132	139	125	115	-5	88	50	91	97	56	86	136	145	139	135	138	138	139	142	140	115
29	141	140	140	138	136	135	137	138	136	134	134	135	137	136	138	131	124	115	110	112	119	124	133	143	132
30 D	148	153	164	165	170	151	136	144	137	105	110	120	117	101	95	102	114	121	122	123	129	132	140	140	131
MEAN	142	147	148	146	144	143	140	138	133	133	129	128	125	125	127	130	128	123	119	119	121	126	130	134	132

HORIZONTAL INTENSITY

MEAN VALUES FOR PERIODS OF SIXTY MINUTES, UNIVERSAL TIME

TABLE 13 VICTORIA

H = 18,500 GAMMA +

MAY 1969

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	431	424	425	420	431	414	419	431	427	420	417	418	423	420	419	413	402	387	391	393	406	410	410	420	415	
2 D	421	429	420	409	422	414	420	430	426	434	426	429	426	426	427	403	422	370	398	396	396	400	406	420	417	
3	422	426	426	424	422	434	410	416	422	416	422	422	418	427	414	404	400	390	389	390	390	390	406	406	412	
4	428	434	428	433	420	428	424	428	428	425	429	426	424	427	425	422	411	406	396	402	401	403	399	415	419	
5	423	426	429	432	424	430	431	435	432	428	430	436	428	431	440	431	418	405	398	394	389	403	403	406	421	
6	413	424	431	435	429	445	431	424	426	430	428	428	428	431	432	427	417	405	398	402	407	411	407	414	422	
7 Q	431	427	428	422	418	421	429	428	431	434	429	432	433	437	435	436	433	432	427	427	423	421	417	416	428	
8	452	428	431	431	427	430	428	425	434	434	436	441	444	451	449	450	445	430	433	433	435	432	431	416	435	
9	428	437	438	434	422	419	423	433	429	423	431	435	434	441	438	432	432	422	410	406	408	428	415	426	427	
10	429	421	427	415	410	416	426	440	439	440	445	437	431	436	437	433	423	409	409	407	408	406	404	417	424	
11 Q	440	435	433	430	440	440	442	443	441	451	447	449	449	458	454	449	437	432	432	425	416	419	420	430	438	
12	424	431	426	429	431	435	437	438	437	445	444	445	449	453	452	446	441	438	439	424	429	428	429	430	437	
13 D	440	450	410	426	419	418	409	377	400	417	402	394	405	406	400	395	371	359	397	392	397	405	426	441	407	
14 D	439	443	410	387	411	424	404	408	417	426	423	421	422	416	397	389	394	409	405	372	337	406	458	441	411	
15 D	427	405	502	444	379	367	358	368	369	330	398	351	322	350	322	295	276	268	302	308	308	354	414	439	361	
16 D	457	440	434	421	394	370	377	379	404	408	401	403	404	425	418	410	404	399	394	387	395	398	400	408	405	
17	410	401	403	403	393	395	391	410	415	414	422	424	422	422	415	408	392	383	373	376	390	401	395	402	403	
18	454	426	420	412	410	420	438	412	420	420	415	423	428	429	421	426	414	403	399	392	393	404	411	411	417	
19	427	424	430	427	420	427	432	432	432	436	437	438	439	437	438	442	433	425	417	403	393	403	415	426	426	
20	432	435	436	425	426	431	430	431	427	428	433	441	441	438	447	452	449	437	422	428	422	411	412	422	432	
21	424	432	430	413	408	410	406	418	419	435	419	404	415	429	427	443	443	423	411	401	396	394	408	424	418	
22	439	433	434	429	430	428	432	429	436	441	439	424	426	432	423	429	441	439	421	412	411	409	415	427	428	
23	438	437	428	423	427	430	430	430	429	434	431	430	425	434	435	427	419	408	414	419	417	417	424	432	427	
24	449	445	445	443	451	438	422	431	431	438	438	440	443	433	430	440	431	420	418	421	420	427	444	451	435	
25	455	442	427	418	423	427	429	432	435	440	438	441	443	445	439	431	418	401	403	411	417	417	420	425	428	
26 Q	433	431	427	431	430	433	435	437	440	444	444	445	444	444	447	444	438	427	418	413	418	420	423	433	435	433
27 Q	441	440	441	442	438	439	439	440	440	439	439	434	441	442	444	447	439	432	424	420	430	438	446	442	438	
28	443	442	442	444	439	446	439	436	425	427	420	432	435	436	432	427	419	408	402	403	406	406	415	409	426	
29 Q	423	429	433	432	429	429	432	431	435	431	429	431	430	430	432	423	418	418	414	421	420	413	429	428	427	
30	426	433	432	433	433	426	425	434	436	427	430	436	431	430	427	410	392	410	399	398	396	403	413	413	421	
31	436	428	420	430	427	423	416	426	417	416	423	429	430	420	419	420	407	410	411	405	403	404	417	429	419	
MEAN	433	431	431	426	422	423	421	424	426	427	428	427	427	430	427	423	414	408	404	403	403	409	417	423	421	

RECORD OF OBSERVATIONS AT VICTORIA MAGNETIC OBSERVATORY 1969

DECLINATION

MEAN VALUES FOR PERIODS OF SIXTY MINUTES, UNIVERSAL TIME

TABLE 14 VICTORIA		D = 22 DEG 00.0 MIN EAST +																				MAY		1969		
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		23.0	26.3	27.1	27.2	31.3	28.4	27.7	27.2	28.1	29.6	28.9	29.1	29.3	30.0	32.1	32.8	33.7	34.6	30.0	25.6	24.7	22.9	23.2	23.5	28.2
2	D	23.4	23.3	24.0	26.9	27.6	27.4	27.6	26.7	26.0	26.4	30.7	29.1	29.5	28.4	30.2	25.3	27.6	30.9	33.5	22.2	21.6	21.1	21.8	22.9	26.4
3		24.7	26.9	27.3	27.8	30.9	39.7	33.5	26.7	28.9	30.9	29.1	30.7	30.9	29.3	30.4	32.2	33.8	32.2	29.3	25.8	24.0	23.3	21.4	21.4	28.8
4		23.7	24.7	26.3	27.3	30.6	26.8	26.3	26.7	28.1	27.5	27.6	28.6	28.9	30.6	30.9	31.5	33.9	32.8	29.4	27.3	26.2	25.3	23.5	21.1	27.7
5		21.9	23.8	25.2	26.6	26.6	26.7	26.8	27.3	27.5	26.9	26.5	25.8	25.4	26.3	31.4	35.5	36.3	34.4	29.2	25.5	22.4	21.6	21.0	21.4	26.7
6		22.6	23.4	25.4	26.8	28.3	28.2	32.1	29.7	27.1	27.0	27.1	27.4	28.3	29.9	31.4	34.2	33.9	33.7	31.2	28.0	25.8	23.1	22.1	21.6	27.8
7	Q	21.7	22.4	23.9	24.9	26.3	26.8	27.1	27.7	24.5	28.5	28.4	28.0	28.8	30.1	31.0	32.6	32.5	32.9	30.9	29.3	27.2	25.6	24.4	23.4	27.5
8		23.5	23.4	24.7	25.5	25.8	26.3	26.7	27.2	26.9	27.4	28.0	27.9	29.2	29.7	29.9	33.6	33.1	32.7	29.2	26.8	25.5	25.2	24.1	24.8	27.4
9		24.4	24.3	25.5	27.3	29.1	27.6	28.1	28.6	34.6	31.0	29.4	28.1	29.1	30.6	31.4	33.0	34.0	34.4	31.9	29.0	26.0	24.4	23.5	22.4	28.7
10		22.0	22.5	24.1	26.9	28.5	28.0	28.3	27.8	28.0	28.7	27.6	25.8	28.3	29.8	31.6	33.1	34.0	32.9	28.5	26.1	24.0	23.8	24.0	23.1	27.4
11	Q	23.5	25.3	26.1	26.2	27.4	27.4	27.4	28.0	29.0	30.0	28.6	28.0	28.9	30.2	31.1	33.2	34.0	35.0	31.7	29.0	26.3	24.1	21.8	21.4	28.1
12		22.8	24.7	26.2	26.7	26.2	26.3	27.2	27.6	28.1	28.1	27.7	27.3	28.2	30.4	32.4	34.1	35.2	35.3	32.9	30.4	26.4	26.5	23.9	21.1	28.2
13	D	20.7	19.2	23.8	24.6	29.2	28.0	29.1	29.2	34.3	32.1	34.7	33.6	26.1	36.7	37.5	36.5	35.3	32.8	27.9	24.5	23.4	21.9	20.2	22.9	28.5
14	D	20.7	28.1	26.1	26.1	30.7	31.9	28.1	26.8	28.7	27.1	25.5	27.7	29.0	30.8	31.7	30.4	30.0	30.7	28.1	30.9	22.2	19.0	12.6	12.2	26.5
15	D	12.9	13.6	13.9	32.6	25.8	25.9	25.1	27.7	29.9	43.7	29.3	32.1	24.3	24.8	32.4	33.0	22.4	27.2	23.9	25.5	22.7	23.4	23.3	23.5	25.8
16	D	31.4	25.6	30.7	35.5	34.9	31.8	31.9	21.1	28.9	28.4	25.3	27.8	26.6	29.8	32.2	34.5	34.1	34.8	31.9	27.8	25.9	24.4	22.9	22.8	29.2
17		24.0	25.5	27.8	27.1	28.2	30.0	25.2	28.6	30.6	31.0	27.8	28.1	27.8	30.6	33.5	34.4	33.8	33.2	30.0	25.8	22.8	20.7	19.5	19.7	27.7
18		19.0	23.4	25.2	24.8	25.0	26.1	25.0	28.6	27.2	31.0	31.2	29.5	29.4	31.8	35.0	37.8	36.5	37.4	30.6	26.3	26.1	24.2	21.9	22.0	28.1
19		23.0	24.8	25.8	27.0	27.2	27.1	27.3	27.2	27.5	27.3	26.6	27.0	26.3	29.2	30.1	33.4	34.3	33.9	30.7	28.9	26.2	23.1	21.7	20.8	27.3
20		23.0	25.2	27.8	26.6	26.8	28.9	30.1	28.4	27.8	27.3	26.4	26.6	28.2	30.6	31.6	34.3	34.2	33.7	29.9	25.7	24.8	23.9	23.5	23.3	27.9
21		24.1	25.0	28.3	30.1	29.7	31.7	34.1	30.6	29.7	27.2	30.6	29.6	30.4	31.2	27.9	34.0	35.5	35.7	32.6	30.0	27.4	24.4	21.9	22.3	29.3
22		22.3	23.3	25.0	28.7	27.2	26.2	26.7	27.5	28.0	27.4	28.9	32.4	32.8	33.9	32.9	31.3	33.3	33.3	32.2	28.5	26.4	24.3	22.2	21.9	28.2
23		23.2	24.5	25.8	26.9	26.9	26.4	27.7	31.2	31.6	28.0	30.5	28.0	29.9	33.3	32.0	34.9	35.1	34.3	31.7	29.7	26.4	25.1	23.4	22.6	28.7
24		23.4	24.9	25.5	26.0	26.3	28.9	28.2	27.3	26.9	28.3	27.9	28.0	28.4	28.4	29.1	31.1	33.8	32.1	28.1	25.2	22.1	22.0	20.3	21.4	26.8
25		23.3	26.7	27.8	28.3	25.9	25.7	26.3	26.3	26.4	26.2	26.3	27.1	28.6	31.0	33.1	34.1	33.8	33.0	27.9	24.9	22.9	22.5	22.0	22.4	27.2
26	Q	24.9	26.2	27.3	27.5	26.2	25.7	26.0	26.1	26.5	26.4	26.7	27.8	29.0	31.0	32.7	33.6	33.2	32.0	29.1	26.2	24.8	23.8	22.4	23.0	27.4
27	Q	23.7	24.3	24.8	24.8	25.5	25.7	26.2	26.4	27.1	27.4	28.1	28.8	29.3	30.5	30.7	32.5	33.0	32.1	31.3	29.3	25.8	23.9	22.9	22.4	27.4
28		23.1	23.5	24.5	25.3	26.0	26.7	25.0	26.7	29.0	28.3	30.4	31.5	31.2	32.1	34.9	35.8	31.0	28.4	25.8	25.3	24.4	23.2	22.1	22.2	27.3
29	Q	23.0	24.5	24.9	25.8	26.2	26.5	26.8	26.7	27.6	27.2	28.0	27.0	29.0	31.4	34.0	34.4	34.6	32.9	30.2	26.2	24.6	22.6	21.6	21.3	27.4
30		22.7	23.7	24.8	25.0	25.6	25.7	25.8	25.9	28.6	29.5	27.0	25.6	28.0	32.3	34.1	35.6	31.4	28.9	26.8	24.8	23.6	22.1	22.1	22.7	26.7
31		22.2	23.1	25.0	25.0	29.2	34.0	27.7	27.1	30.7	28.9	27.2	27.3	27.2	31.3	33.2	31.2	31.2	29.5	29.3	29.3	26.7	23.8	22.2	21.9	27.7
MEAN		22.8	24.1	25.5	27.0	27.8	28.1	27.8	27.4	28.5	28.9	28.3	28.4	28.6	30.5	32.0	33.4	33.2	32.8	29.9	27.1	24.8	23.4	22.0	21.9	27.7

VERTICAL INTENSITY

MEAN VALUES FOR PERIODS OF SIXTY MINUTES, UNIVERSAL TIME

TABLE 15 VICTORIA

Z = 53,000 GAMMA +

MAY 1969

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	145	149	149	149	144	139	139	128	120	121	127	130	131	131	133	131	131	124	114	114	121	123	126	131	131
2 D	134	135	134	137	136	135	137	132	132	119	123	130	128	120	108	110	112	114	106	120	126	132	137	140	127
3	139	142	140	137	138	134	124	121	108	123	122	116	118	123	110	112	115	117	120	122	124	120	130	130	124
4	137	140	136	138	140	136	134	135	134	134	130	128	129	130	131	130	125	123	116	119	124	123	122	126	130
5	138	144	140	138	136	135	135	135	135	134	133	130	118	109	113	118	119	115	106	101	106	113	118	127	125
6	132	137	145	149	144	130	126	130	136	135	135	134	130	129	128	129	125	120	117	119	125	125	120	125	130
7 Q	135	141	149	151	149	148	146	146	135	123	133	136	137	136	135	135	129	122	116	114	115	111	113	120	132
8	128	134	136	140	140	141	143	143	142	142	139	141	140	141	136	134	128	125	124	118	119	123	129	135	134
9	141	144	144	145	145	147	149	147	137	134	137	140	140	143	142	142	138	131	120	113	120	124	123	131	137
10	131	130	126	138	140	136	136	115	109	114	114	112	113	113	110	112	110	108	110	115	118	120	124	127	120
11 Q	142	143	144	141	138	136	136	135	134	127	123	128	133	136	137	138	134	129	119	118	115	113	115	120	131
12	129	140	143	142	138	135	133	132	132	131	130	129	134	137	141	143	138	127	121	117	117	112	118	129	131
13 D	140	167	171	160	174	160	161	127	122	110	87	92	53	77	91	90	96	104	112	120	134	145	163	204	128
14 D	211	245	206	184	171	148	145	139	141	121	106	119	131	137	132	127	118	116	108	103	106	131	148	207	146
15 D	250	226	290	338	306	220	190	187	190	121	31	23	-99	-53	-86	-53	-22	36	84	134	160	197	219	221	130
16 D	264	238	243	211	180	204	132	90	134	110	66	103	86	132	138	146	147	147	142	139	134	128	126	137	149
17	148	160	171	189	195	194	156	135	149	148	142	138	132	133	136	144	143	142	136	134	137	138	142	149	150
18	192	197	182	170	165	160	135	137	145	127	122	136	148	155	153	150	139	132	123	130	136	139	146	147	149
19	163	159	156	151	149	151	152	153	152	152	150	145	131	129	128	134	132	129	122	119	120	127	137	146	141
20	159	159	161	152	148	148	138	143	142	144	145	147	146	146	149	150	146	139	126	129	131	129	131	144	144
21	160	165	170	165	164	160	158	149	147	142	126	111	126	130	110	113	120	117	118	120	124	128	141	151	138
22	156	155	154	150	146	146	144	148	145	134	117	101	105	108	118	122	131	136	132	124	122	121	130	142	133
23	146	153	151	149	147	144	145	142	143	141	134	138	132	137	137	142	140	133	127	126	130	136	137	142	140
24	146	146	145	141	145	148	145	148	142	138	138	140	139	131	124	119	121	118	110	104	111	118	132	148	133
25	164	171	159	151	144	141	141	141	139	137	136	139	141	141	138	137	131	126	125	121	118	123	132	143	139
26 Q	147	149	145	141	137	137	136	135	136	135	134	127	133	136	136	133	128	113	99	95	100	109	116	125	128
27 Q	132	136	135	130	130	128	128	130	128	129	130	130	132	131	128	125	120	112	110	109	107	107	120	121	125
28	133	134	133	133	131	130	131	132	131	132	129	130	132	133	130	127	115	118	108	101	105	113	121	125	125
29 Q	137	140	142	140	135	134	133	134	134	132	131	129	132	131	132	129	124	111	101	97	101	78	109	132	125
30	137	143	141	139	138	137	137	136	129	117	126	129	112	119	126	124	113	109	104	105	107	117	123	130	125
31	142	147	147	148	147	131	133	138	134	130	133	133	121	115	121	126	123	125	123	116	118	127	129	135	131
MEAN	153	157	158	156	153	148	141	137	137	130	124	125	119	123	121	123	122	120	116	117	120	124	132	142	133

HORIZONTAL INTENSITY

MEAN VALUES FOR PERIODS OF SIXTY MINUTES, UNIVERSAL TIME

TABLE 16 VICTORIA

H = 18,500 GAMMA +

JUNE 1969

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	425	430	430	430	420	415	415	423	423	426	426	424	420	423	427	424	414	403	393	401	400	405	408	417	418	
2	426	434	437	437	422	415	421	434	425	425	430	434	431	428	425	413	407	399	395	405	410	417	419	418	421	
3	423	414	418	420	425	429	430	431	430	433	434	435	434	432	429	422	416	402	407	410	419	432	432	416	424	
4	417	419	428	433	417	423	430	439	429	427	432	431	426	424	426	426	415	409	411	410	397	401	408	415	421	
5	427	431	434	424	428	431	429	429	438	435	437	433	435	432	433	429	421	415	413	417	415	416	420	427	427	
6 Q	433	434	430	429	431	433	436	437	438	440	437	438	440	440	441	432	429	427	416	416	420	420	426	432	431	
7	437	430	421	427	434	434	436	439	444	443	440	428	437	438	429	418	413	417	423	420	415	413	419	428	428	
8	425	430	430	426	426	450	450	451	457	462	457	462	465	459	452	436	420	444	434	418	416	408	413	440		
9	423	430	429	440	431	432	435	434	438	439	436	429	421	426	429	413	402	399	415	410	403	397	416	430	423	
10	410	425	417	412	416	426	416	417	427	421	415	416	420	423	427	417	394	389	400	403	401	407	416	422	414	
11	421	427	419	419	421	427	429	435	440	428	430	433	431	433	438	437	425	413	403	405	410	415	432	410	424	
12 D	432	446	458	446	407	422	409	416	421	402	410	412	420	421	417	418	404	398	386	400	409	418	415	418	417	
13 D	431	435	435	434	426	423	414	423	425	423	424	422	413	418	421	423	405	380	386	402	415	403	401	432	417	
14 D	428	438	425	422	447	444	439	441	424	433	435	438	427	450	427	414	423	426	421	414	411	402	409	404	427	
15	419	428	434	430	423	423	425	431	429	434	440	427	424	431	438	438	435	418	419	417	416	420	413	415	426	
16 D	419	434	419	422	420	418	422	432	439	430	438	442	445	444	432	439	434	433	428	421	424	425	417	411	429	
17 D	426	444	444	433	416	422	430	427	425	434	449	441	440	442	442	437	424	399	385	412	422	415	411	414	426	
18 Q	421	422	428	428	426	427	428	428	431	429	432	433	437	442	440	437	421	413	426	423	417	416	423	426	427	
19	426	433	429	432	430	430	432	437	438	437	425	434	438	442	449	447	448	438	422	406	402	412	414	416	430	
20	439	440	425	428	426	436	413	425	438	423	425	427	430	440	447	448	440	429	422	413	407	414	428	433	429	
21	439	440	437	432	432	431	430	425	429	431	431	428	432	432	436	436	434	431	426	424	412	412	420	428	430	
22 Q	431	433	434	432	431	430	431	432	432	432	437	434	439	447	447	442	432	418	412	413	413	417	423	436	430	
23	445	444	438	439	439	439	434	435	437	438	435	439	442	441	442	436	439	444	438	433	433	428	425	426	437	
24	425	431	441	439	426	434	429	427	422	420	423	425	426	422	415	420	411	416	424	433	425	424	422	427	425	
25	437	437	432	424	426	437	435	430	433	435	433	429	427	426	425	423	407	404	424	416	415	413	422	427	426	
26	438	422	422	434	431	434	436	433	436	435	435	435	432	425	423	428	423	419	410	402	408	410	413	418	422	425
27	420	426	431	425	422	430	433	431	430	433	432	426	426	431	430	425	425	418	416	417	419	414	415	418	425	
28 Q	430	431	428	432	434	432	437	435	438	440	441	439	438	439	437	436	432	429	427	428	424	415	410	424	432	
29 Q	433	438	433	443	433	435	438	439	440	437	433	433	435	441	442	436	420	401	403	406	411	424	432	437	430	
30	435	432	433	435	433	436	440	438	437	439	439	442	448	454	447	444	436	422	425	434	434	433	438	447	438	
MEAN	428	432	431	430	427	430	429	432	433	432	433	432	432	435	434	430	422	414	414	415	414	415	419	423	427	

DECLINATION

MEAN VALUES FOR PERIODS OF SIXTY MINUTES, UNIVERSAL TIME

TABLE 17 VICTORIA

D = 22 DEG 00.0 MIN EAST +

JUNE 1969

HOUR	00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23	MEAN
TO	TO	TO	TO	TO	TO	TO	TO	TO	TO	TO	TO	TO	TO	TO	TO	TO	TO	TO	TO	TO	TO	TO	TO	TO	
01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24		
DAY																									
1	22.9	23.7	26.6	27.0	25.9	27.0	27.1	26.5	26.5	27.1	27.2	27.4	27.6	28.1	30.9	32.8	33.0	32.5	29.0	27.5	25.6	24.6	23.9	22.6	27.2
2	24.8	25.6	25.7	26.6	28.9	26.7	26.1	27.1	27.5	27.5	27.0	27.2	28.7	31.9	33.1	35.1	34.4	34.2	30.3	25.4	22.1	20.5	21.5	22.3	27.5
3	21.5	23.0	24.1	25.7	24.5	26.5	25.3	25.4	25.5	26.4	26.1	26.6	28.4	28.8	30.4	31.4	31.8	31.5	28.0	26.3	23.2	21.8	19.1	20.3	25.9
4	21.5	23.7	25.7	27.0	24.8	25.4	25.1	28.2	28.5	25.7	26.2	27.2	29.9	31.6	33.9	35.6	32.8	35.1	30.1	28.4	25.3	23.9	22.8	21.8	27.5
5	22.6	24.0	26.5	27.5	26.0	26.5	26.3	25.5	25.4	26.7	26.3	27.1	29.1	30.9	33.4	34.6	34.5	33.4	30.8	27.2	24.8	22.7	22.4	22.1	27.3
6 Q	23.5	25.2	26.7	27.3	27.3	27.2	26.8	26.1	26.1	26.3	26.9	27.6	29.7	32.2	34.3	36.3	37.3	32.4	29.3	26.0	22.2	20.7	19.5	19.7	27.4
7	21.6	23.9	25.2	24.0	24.8	25.1	25.7	25.8	25.7	25.4	27.1	29.5	24.8	32.1	34.9	37.0	35.6	33.6	29.0	26.1	24.5	23.1	21.9	21.6	27.0
8	23.8	25.0	27.0	27.5	27.7	25.8	25.6	27.1	26.9	26.5	28.0	27.7	31.1	32.3	36.1	38.0	38.2	34.7	27.4	28.5	24.0	20.4	20.0	20.3	28.0
9	22.0	22.5	24.7	27.1	25.9	25.7	24.8	25.5	25.8	25.6	25.8	28.1	27.7	30.8	35.0	35.2	33.2	30.6	25.2	22.0	20.8	19.3	19.0	20.6	26.0
10	23.9	24.7	26.7	26.0	25.8	24.7	28.1	26.3	27.9	28.1	26.7	26.6	26.2	30.4	33.4	34.8	36.5	34.5	31.4	27.4	23.2	21.4	21.5	21.1	27.4
11	22.8	25.4	27.4	26.7	25.7	28.0	27.4	26.2	27.1	30.0	27.6	27.8	28.9	30.3	31.6	33.1	34.5	34.9	31.5	27.0	24.2	22.2	20.1	21.0	27.6
12 D	20.5	21.8	20.3	22.3	27.8	34.6	28.2	26.2	29.1	27.4	25.3	21.1	24.7	27.0	29.5	31.1	31.8	30.2	27.4	20.7	20.2	20.3	21.8	22.9	25.5
13 D	23.4	23.7	24.0	24.0	33.5	31.9	26.6	25.3	25.3	25.9	26.9	28.6	27.6	29.1	33.3	34.3	35.3	33.3	28.3	23.6	23.1	21.3	18.7	18.2	26.9
14 D	19.5	20.1	23.7	27.8	28.2	26.3	26.7	28.1	28.2	25.4	25.0	26.0	22.8	33.9	36.8	36.2	38.5	34.7	32.2	30.0	26.6	24.1	22.5	22.5	27.7
15	23.2	24.2	25.8	27.7	27.6	26.1	25.8	26.3	29.3	26.8	25.0	24.9	26.4	30.5	34.2	35.6	35.7	35.0	31.6	26.3	24.3	23.4	23.5	23.6	27.6
16 D	24.7	25.6	27.2	27.5	26.8	29.2	31.7	28.4	31.1	34.1	27.1	26.0	27.7	30.7	31.9	34.0	35.6	33.5	31.6	28.1	24.8	23.4	22.4	21.8	28.5
17 D	22.0	24.2	30.5	28.6	25.2	25.2	30.8	33.8	26.0	24.7	26.8	26.6	29.3	31.6	33.6	34.3	38.1	37.8	30.9	25.7	25.5	25.3	24.0	23.6	28.5
18 Q	25.1	25.3	26.2	26.7	26.7	26.2	26.4	27.1	26.9	26.9	26.9	27.6	28.6	29.2	30.7	32.7	33.1	31.6	27.1	25.0	24.5	23.3	22.3	22.1	27.0
19	24.1	25.0	26.3	27.1	26.1	26.3	26.3	26.5	28.2	29.0	28.9	27.7	29.3	30.1	31.3	31.6	32.4	32.0	30.4	26.5	23.9	21.5	21.4	21.6	27.2
20	22.9	26.0	27.5	28.2	31.6	31.0	28.8	26.7	30.5	27.7	28.9	27.7	28.9	30.0	33.7	35.5	36.2	33.7	28.0	25.1	22.7	21.3	20.5	21.2	28.1
21	24.1	25.7	26.7	26.9	27.2	28.4	30.6	27.9	26.4	25.3	27.6	28.8	30.2	30.0	32.3	35.9	35.8	33.2	30.8	27.9	26.3	24.1	22.1	22.3	28.2
22 Q	24.5	26.0	27.5	28.0	27.0	26.7	26.5	26.2	26.4	26.4	26.4	27.5	29.2	30.1	30.7	33.0	33.2	32.3	30.9	27.4	25.2	24.1	23.1	22.8	27.5
23	23.6	24.7	25.7	25.6	25.5	25.4	25.8	26.4	26.1	26.6	27.7	28.7	28.4	30.1	31.7	32.8	32.5	30.6	28.8	26.7	25.5	23.2	22.1	22.3	26.9
24	23.4	23.5	26.9	28.8	26.7	29.3	29.0	27.9	28.8	27.3	26.7	26.1	27.8	29.8	31.1	30.4	32.5	30.1	28.6	25.2	24.7	22.8	21.6	21.7	27.1
25	23.6	24.3	25.9	26.2	26.2	26.3	27.1	27.1	26.0	27.2	27.7	27.6	29.1	26.4	30.3	33.3	34.4	30.5	25.2	23.6	22.2	20.5	20.0	19.3	26.2
26	19.7	22.4	24.9	25.4	26.4	26.8	26.2	26.3	26.6	26.1	27.4	25.5	27.0	28.4	29.2	30.3	30.6	31.7	29.5	26.4	24.0	23.1	22.5	21.5	26.2
27	22.4	23.2	25.3	27.2	26.5	25.9	27.1	26.8	26.6	26.6	26.4	27.5	27.9	30.3	31.7	31.9	31.3	31.0	28.3	25.7	23.8	23.3	22.1	21.9	26.7
28 Q	23.1	23.8	24.8	25.9	26.3	26.4	26.9	26.6	26.8	26.9	26.5	26.7	27.9	29.4	31.0	32.6	34.0	32.1	29.8	25.8	23.5	21.3	20.8	20.9	26.7
29 Q	22.2	23.7	25.6	26.5	26.2	26.2	25.7	26.4	26.9	27.2	27.6	27.9	30.1	30.9	31.6	33.5	35.2	33.0	29.0	25.4	22.9	21.3	20.7	21.2	27.0
30	23.8	25.9	26.8	26.3	25.7	25.7	26.7	26.8	26.7	26.1	26.5	27.5	28.9	29.6	32.1	33.4	34.4	33.2	27.4	22.7	19.7	18.4	18.7	19.0	26.3
MEAN	22.9	24.2	25.9	26.6	26.8	27.1	27.0	26.9	27.2	27.0	26.9	27.1	28.1	30.2	32.5	33.9	34.4	32.9	29.3	26.0	23.8	22.2	21.4	21.5	27.2

VERTICAL INTENSITY

MEAN VALUES FOR PERIODS OF SIXTY MINUTES, UNIVERSAL TIME

TABLE 18 VICTORIA

Z = 53,000 GAMMA +

JUNE 1969

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	136	143	145	147	140	140	140	139	136	135	133	131	134	130	131	134	131	124	113	111	120	128	128	126	132
2	137	140	139	141	140	139	139	123	121	129	131	131	126	126	129	130	123	113	104	103	103	106	108	118	125
3	128	137	143	138	131	138	132	132	131	133	133	133	129	129	127	119	120	114	114	102	107	108	123	126	
4	133	139	145	145	133	136	135	133	123	130	133	131	127	122	128	130	118	99	83	83	91	104	116	125	123
5	133	138	147	139	131	130	131	129	130	131	131	128	134	130	128	128	125	120	115	114	119	118	116	125	128
6 Q	135	137	135	133	131	128	130	129	128	129	130	132	134	134	130	122	116	111	100	97	106	113	122	131	125
7	141	144	143	136	137	136	138	135	132	131	129	126	114	111	116	115	113	107	103	104	108	112	119	129	124
8	143	150	155	148	139	142	146	144	142	139	137	136	141	142	140	135	115	97	97	91	98	108	119	134	131
9	140	151	148	151	140	136	131	131	130	131	129	129	128	122	125	123	118	103	99	97	116	129	147	166	130
10	162	166	166	158	144	142	142	142	132	128	124	133	136	136	143	145	134	118	115	118	120	117	117	129	136
11	141	148	147	140	135	137	138	136	128	125	132	134	136	136	137	140	136	131	123	120	116	118	132	130	133
12 D	137	136	165	184	190	171	143	145	127	121	127	125	127	134	133	127	124	111	103	111	117	126	130	134	135
13 D	143	150	157	162	174	156	152	150	145	142	141	142	136	125	119	115	110	105	90	89	98	113	128	146	133
14 D	148	150	148	148	149	142	146	143	120	137	139	141	129	95	112	122	123	115	105	105	107	114	131	137	129
15	142	146	153	149	146	140	137	138	136	137	136	125	110	116	116	124	127	122	110	97	112	121	120	127	129
16 D	136	150	154	152	152	151	150	144	133	112	126	132	136	134	125	116	114	103	95	98	94	100	108	127	127
17 D	145	167	191	177	150	143	141	133	134	135	125	125	137	139	140	133	126	112	97	94	104	107	111	118	133
18 Q	133	140	141	136	132	131	132	132	133	135	137	135	136	136	136	136	131	121	115	105	103	104	115	126	128
19	134	138	137	135	132	131	132	133	132	128	130	134	136	135	130	126	125	119	108	103	101	106	114	128	126
20	138	149	146	144	144	140	134	139	125	107	118	125	130	135	134	131	126	120	111	111	117	122	128	133	129
21	143	147	144	135	132	133	134	132	134	130	124	124	129	126	124	125	124	120	116	118	121	122	126	136	129
22 Q	137	140	140	132	131	127	129	128	129	129	130	131	135	133	133	131	116	110	112	109	108	115	119	128	126
23	138	138	134	133	129	128	125	127	129	123	126	128	130	128	130	122	120	118	119	110	111	115	128	139	126
24	144	147	152	152	139	139	127	132	131	128	132	133	123	129	130	126	122	119	114	112	116	116	122	131	130
25	144	144	142	136	130	131	133	131	130	127	128	127	128	120	115	110	104	100	99	98	104	107	117	124	122
26	136	144	142	139	134	133	131	128	128	125	124	119	114	115	107	102	100	102	96	98	97	99	104	115	118
27	125	131	143	143	137	133	131	130	129	127	125	121	121	125	130	130	130	122	120	118	119	118	121	126	127
28 Q	134	137	137	133	133	131	131	129	128	126	123	123	125	127	128	125	119	117	112	108	105	97	100	111	122
29 Q	123	131	130	133	130	128	127	127	126	123	122	124	124	125	128	129	126	112	97	96	96	96	110	118	120
30	126	130	134	131	127	126	127	128	125	126	125	127	128	129	128	124	113	102	97	95	95	106	115	116	120
MEAN	138	144	147	144	140	137	135	134	130	129	129	130	129	127	128	126	121	113	106	104	107	112	119	129	127

HORIZONTAL INTENSITY

MEAN VALUES FOR PERIODS OF SIXTY MINUTES, UNIVERSAL TIME

TABLE 19 VICTORIA

H = 18,500 GAMMA +

JULY 1969

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	458	459	444	446	454	452	455	437	416	431	437	434	434	442	453	450	436	414	399	401	407	418	422	422	434	
2	438	441	432	424	429	434	434	437	435	438	433	432	436	440	444	437	429	410	394	389	394	408	430	437	427	
3	441	440	435	435	436	436	436	437	440	440	440	442	445	447	447	437	423	415	411	411	417	422	427	429	433	
4 Q	428	430	435	439	441	442	442	441	440	442	442	442	445	448	448	448	444	431	413	402	411	422	429	442	435	
5 Q	445	447	443	442	442	444	440	442	441	441	440	443	441	444	446	437	430	422	421	420	425	427	427	428	437	
6	439	442	442	443	445	444	448	447	447	447	450	454	456	459	452	445	454	454	448	439	430	424	426	427	444	
7	441	462	454	447	450	442	442	445	447	444	443	442	448	445	448	449	436	427	421	427	427	423	416	418	439	
8	428	434	434	436	443	438	443	441	439	441	438	439	443	440	444	446	439	423	410	410	410	414	426	417	432	
9	426	437	427	428	434	429	436	437	434	431	431	430	431	430	429	422	414	409	407	400	409	421	429	433	426	
10	428	438	431	432	424	426	429	431	434	437	431	427	431	432	427	419	421	420	424	426	425	425	423	421	428	
11	417	428	434	436	435	439	445	442	446	446	446	445	446	446	443	435	436	432	427	416	412	414	414	419	433	
12	438	442	438	431	421	416	424	426	442	433	438	444	452	465	466	465	450	430	424	412	416	422	393	415	433	
13 D	435	444	433	435	432	430	426	429	442	440	437	440	453	464	462	461	450	423	395	367	390	397	412	421	430	
14 D	425	421	432	436	426	427	430	429	435	431	436	440	443	453	458	444	424	402	394	391	388	394	410	417	424	
15	423	431	427	432	434	434	434	435	437	439	436	436	441	445	447	445	431	421	409	399	397	401	408	420	428	
16	430	435	438	426	431	435	432	435	439	443	448	437	444	452	448	442	424	426	404	405	420	426	419	426	432	
17	436	434	426	435	433	429	435	437	437	440	440	441	442	446	443	438	425	413	403	407	408	411	418	430	429	
18	439	439	435	435	436	437	438	439	437	439	435	430	439	438	444	442	435	423	419	420	418	430	427	429	433	
19 Q	432	434	433	434	434	439	440	441	437	443	441	443	442	447	446	440	429	420	415	411	412	415	419	425	432	
20 Q	436	437	439	433	435	437	439	444	445	444	448	452	465	468	469	464	457	447	439	433	421	424	437	442	444	
21	438	437	438	439	441	444	445	453	455	459	460	462	461	463	455	443	432	431	430	433	432	433	434	425	443	
22	423	428	422	430	439	441	425	430	425	433	436	439	438	438	434	434	430	426	423	428	430	425	425	426	430	
23	438	438	441	437	435	439	439	442	443	443	445	441	442	443	441	432	424	408	409	419	429	432	430	414	434	
24	415	426	432	435	437	437	438	433	433	436	438	439	438	443	443	444	443	438	436	438	439	435	431	428	436	
25	430	438	439	429	426	431	433	432	437	438	438	439	440	439	440	433	424	410	403	414	427	435	437	425	431	
26 D	433	429	438	427	431	436	440	442	447	448	446	450	464	456	458	458	462	456	448	442	438	444	440	461	446	
27 D	489	462	418	394	376	378	388	395	382	404	412	403	406	411	411	400	388	378	372	375	393	401	407	421	403	
28	417	420	414	416	417	421	422	430	421	423	425	426	430	433	433	431	428	423	418	414	414	416	420	423	422	
29 Q	425	429	431	431	427	428	432	431	432	433	434	435	437	440	439	436	428	424	424	420	418	419	425	429	429	
30	435	424	432	433	436	441	438	444	446	445	446	451	450	457	460	464	444	400	385	412	414	413	422	434	434	
31	424	423	430	434	427	434	436	436	439	441	440	437	437	441	444	442	431	417	408	405	405	413	418	424	429	
MEAN	434	436	434	433	432	434	435	436	436	438	439	439	443	446	446	441	433	422	414	412	415	419	423	427	432	

DECLINATION

MEAN VALUES FOR PERIODS OF SIXTY MINUTES, UNIVERSAL TIME

TABLE 20 VICTORIA

D = 22 DEG 00.0 MIN EAST +

JULY 1969

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	21.0	23.8	25.5	25.0	24.1	23.3	24.3	25.8	28.9	26.0	26.9	28.6	29.7	33.6	35.6	36.6	37.0	34.4	29.9	25.4	23.2	21.1	20.6	20.9	27.1
2	23.3	24.9	25.9	27.7	26.7	27.0	26.0	26.1	25.8	26.3	26.5	27.2	29.2	30.4	32.2	32.9	33.7	33.6	30.6	27.1	23.7	19.5	19.6	21.5	27.0
3	24.1	25.5	26.5	26.9	26.6	26.4	26.3	26.0	26.2	26.4	27.0	28.4	30.1	31.8	33.0	35.9	36.9	33.8	29.6	23.8	21.4	21.3	21.9	22.7	27.4
4 Q	24.0	24.7	25.1	25.0	25.5	26.1	26.0	26.3	26.3	26.4	27.2	27.4	28.6	30.7	32.3	33.7	34.2	33.2	30.5	26.6	22.3	19.3	19.1	20.1	26.7
5 Q	22.4	24.3	25.9	26.4	26.6	26.4	25.4	26.3	26.1	26.6	27.4	27.1	28.3	30.5	32.3	34.4	35.9	34.3	31.0	26.5	22.3	19.7	18.8	19.5	26.8
6	20.4	22.3	24.7	25.4	25.4	25.5	25.7	25.4	25.7	26.6	27.4	28.2	29.2	30.5	33.0	34.9	34.5	34.5	33.4	29.2	26.0	23.3	21.2	20.9	27.2
7	19.9	21.0	23.7	25.7	26.7	26.2	26.1	25.9	26.3	27.1	28.3	28.6	31.7	32.0	33.3	33.2	37.0	35.7	31.9	27.9	23.6	19.6	17.8	18.2	27.0
8	19.9	23.0	24.9	25.4	25.2	26.2	25.4	26.0	26.5	26.9	27.7	28.2	28.4	30.0	32.4	34.3	35.0	33.9	30.7	25.9	23.6	21.2	19.7	21.1	26.7
9	22.3	23.9	25.3	25.6	26.6	26.5	25.6	27.2	28.2	26.5	27.3	28.7	30.0	30.3	30.9	33.6	35.6	33.6	28.9	23.0	20.0	17.9	18.9	21.9	26.6
10	24.5	24.8	27.2	27.4	25.3	25.4	25.0	25.4	25.1	26.4	26.3	27.2	28.2	29.3	30.3	29.6	32.4	30.5	27.3	24.3	20.7	19.8	19.9	20.7	26.0
11	23.4	24.7	26.6	27.0	26.3	26.1	26.2	27.0	27.8	27.2	27.1	27.7	28.5	30.2	31.1	33.9	35.0	31.9	27.9	23.7	22.6	21.5	20.8	21.7	26.9
12	23.7	24.6	25.5	26.2	26.5	27.3	27.7	26.8	27.8	28.5	26.9	27.5	28.8	31.5	33.2	35.9	37.2	36.3	32.3	29.0	26.8	25.0	23.1	22.6	28.4
13 D	23.8	25.7	27.1	27.1	27.1	29.0	27.8	26.6	29.7	31.5	28.5	27.5	27.4	30.4	32.5	34.6	34.1	32.8	31.6	26.4	19.7	18.5	19.3	20.8	27.5
14 D	24.0	26.6	27.9	29.7	35.7	28.4	27.1	31.0	29.9	28.1	27.1	26.0	27.2	30.6	33.5	35.0	35.5	34.0	28.5	24.8	22.2	22.1	21.9	23.1	28.3
15	24.8	27.3	28.0	27.1	26.3	26.0	26.0	26.6	28.5	27.6	24.9	24.3	26.1	29.9	33.2	35.8	35.9	35.2	32.5	28.2	24.6	22.9	22.4	23.4	27.8
16	24.3	26.9	27.7	29.6	29.2	27.4	26.7	26.3	25.2	25.7	25.3	29.4	29.2	31.7	33.3	34.9	35.0	31.5	31.0	25.8	23.9	24.5	24.2	24.6	28.1
17	25.3	26.6	27.0	27.5	27.6	28.2	26.3	26.3	26.0	26.6	26.2	27.4	28.2	29.0	32.0	32.9	32.5	31.9	28.9	25.6	23.5	22.5	21.6	21.9	27.1
18	22.4	23.8	24.8	25.7	25.9	26.6	26.6	27.0	27.4	27.5	26.5	28.1	28.6	27.6	30.0	32.2	34.0	34.1	30.3	27.4	25.5	24.6	24.8	24.5	27.3
19 Q	24.8	25.3	25.8	25.9	26.7	26.9	28.1	27.4	27.3	26.9	26.8	27.2	27.8	29.2	30.4	32.3	32.5	31.3	26.2	23.1	22.1	21.8	21.2	21.7	26.6
20 Q	22.6	24.4	25.4	26.1	26.3	27.1	26.7	26.6	26.5	26.6	26.9	27.0	27.9	30.0	32.1	34.9	35.4	33.7	30.7	27.0	23.8	22.1	21.1	22.0	27.2
21	24.1	25.3	25.8	26.2	25.8	25.6	26.0	25.8	25.7	25.9	26.4	27.2	27.7	29.4	32.1	33.1	32.7	32.0	25.6	22.3	19.8	20.0	21.4	23.5	26.2
22	24.8	24.7	25.2	25.4	25.1	25.1	26.2	26.8	27.4	26.9	26.7	27.7	28.8	30.6	31.5	31.7	32.6	31.8	28.0	26.9	25.8	24.7	23.7	22.6	27.1
23	24.0	24.7	24.0	24.6	25.3	26.1	26.3	26.5	26.6	26.9	26.4	27.3	28.1	29.6	30.1	30.7	31.0	29.7	25.1	22.9	22.8	22.5	21.6	22.6	26.1
24	23.4	24.3	24.5	25.1	25.7	26.4	26.6	27.8	26.9	26.8	27.1	28.1	28.7	29.6	31.3	32.9	32.5	32.1	29.9	27.7	26.7	26.7	25.3	25.5	27.6
25	25.9	25.2	25.6	25.7	26.0	27.1	27.6	27.1	26.4	27.0	27.7	28.6	28.9	29.2	30.6	30.7	31.3	30.8	27.9	23.9	22.4	21.6	21.0	23.1	26.7
26 D	23.9	24.7	24.8	24.9	26.9	24.9	24.8	25.6	26.2	27.0	27.5	27.8	28.4	30.1	28.2	35.2	35.2	34.6	31.4	28.8	26.8	25.3	24.1	22.0	27.5
27 D	19.4	21.6	25.5	38.1	31.7	35.9	32.6	31.0	34.1	30.4	28.4	28.1	28.4	31.0	33.9	35.2	35.0	33.7	30.1	27.1	23.2	21.5	21.7	23.7	29.2
28	25.8	26.3	27.2	26.6	26.1	26.4	27.0	25.2	25.6	26.8	26.7	27.5	28.5	29.8	30.6	31.5	32.4	32.0	29.9	27.7	25.1	24.7	24.8	23.8	27.4
29 Q	25.4	25.6	25.6	25.9	26.0	26.3	26.1	27.2	26.5	26.7	27.0	27.7	29.0	30.3	32.4	34.7	35.1	33.0	29.2	26.2	22.9	22.3	22.2	21.8	27.3
30	22.6	24.4	24.6	24.9	25.0	25.1	25.1	24.9	25.5	26.2	26.3	27.3	26.7	27.4	28.8	33.4	36.0	36.5	28.5	22.9	19.6	18.7	20.4	21.5	25.9
31	24.2	24.6	24.9	26.6	25.6	26.0	25.2	25.5	25.5	26.8	26.5	27.2	29.1	29.8	31.8	33.4	34.2	33.8	30.9	27.3	24.6	22.3	20.9	21.0	27.0
MEAN	23.4	24.7	25.7	26.7	26.6	26.7	26.4	26.6	27.0	27.1	26.9	27.6	28.6	30.2	31.9	33.7	34.4	33.2	29.7	25.9	23.3	21.9	21.5	22.1	27.2

VERTICAL INTENSITY

MEAN VALUES FOR PERIODS OF SIXTY MINUTES, UNIVERSAL TIME

TABLE 21 VICTORIA

Z = 53,000 GAMMA +

JULY 1969

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	24	MEAN
TO	TO	TO	TO	TO	TO	TO	TO	TO	TO	TO	TO	TO	TO	TO	TO	TO	TO	TO	TO	TO	TO	TO	TO	TO	TO	
01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24			
DAY																										
1 D	124	131	127	128	125	126	132	100	109	123	122	124	119	129	132	126	114	109	98	101	104	104	109	122	118	
2	139	142	143	139	137	132	129	119	123	124	125	126	129	131	132	129	123	114	106	97	103	106	112	121	124	
3	132	137	137	131	131	127	127	127	127	127	128	129	132	131	131	127	123	115	106	99	91	94	109	113	122	
4 Q	123	128	128	126	126	124	124	124	124	126	126	126	128	130	129	127	122	117	111	104	101	98	104	117	121	
5 Q	126	132	131	128	126	125	123	123	124	123	124	127	123	123	125	124	121	116	104	96	99	97	100	107	119	
6	114	121	125	122	122	120	120	119	119	121	123	124	125	125	127	124	123	120	111	106	100	98	106	116	118	
7	120	121	123	123	123	123	122	120	120	122	119	119	121	122	124	117	107	104	103	101	99	99	106	115	116	
8	126	129	125	124	124	123	121	120	119	118	118	119	121	122	124	125	116	108	99	96	99	103	117	125	118	
9	133	143	144	148	143	139	135	130	125	124	124	125	125	122	120	121	117	110	106	100	98	101	117	125	124	
10	128	138	139	140	132	130	128	125	125	122	116	117	122	121	124	115	117	117	113	112	111	115	120	127	123	
11	132	139	143	138	131	126	128	126	125	123	121	124	124	126	127	126	117	105	99	99	102	106	114	128	122	
12	142	152	159	158	157	151	146	139	116	120	126	128	132	135	135	139	135	130	121	107	108	113	116	129	133	
13 D	140	147	148	143	144	135	138	137	127	109	116	123	127	137	143	146	144	133	120	106	110	121	131	139	132	
14 D	148	151	150	154	159	142	136	132	126	117	121	126	130	129	139	139	133	124	111	103	105	109	119	129	131	
15	140	147	144	140	135	132	130	129	128	124	123	119	124	129	133	135	127	120	111	106	104	108	117	126	126	
16	137	143	144	140	139	136	134	132	131	130	116	110	124	130	130	132	129	126	118	117	117	123	124	127	129	
17	133	137	132	133	133	130	129	129	128	127	124	126	127	129	129	130	126	121	112	111	113	120	122	127	126	
18	130	132	130	130	128	127	127	126	127	126	124	118	126	126	124	126	124	118	114	111	112	115	118	124	123	
19 Q	125	128	129	127	124	125	125	123	122	122	119	124	124	126	126	124	122	111	102	108	113	120	120	124	121	
20 Q	129	130	129	126	124	125	122	123	122	123	124	125	127	127	126	126	124	117	108	109	112	104	109	119	121	
21	128	128	128	124	121	123	120	122	122	122	121	123	123	127	122	117	108	106	108	106	106	116	124	127	120	
22	130	136	133	130	128	127	129	132	131	131	128	128	129	130	126	122	119	116	108	107	107	108	116	120	124	
23	130	128	124	122	121	121	120	120	121	121	120	118	118	122	123	121	119	108	105	113	116	122	124	126	120	
24	131	134	133	129	127	125	124	124	122	122	122	124	124	127	127	129	120	114	107	109	107	110	115	116	122	
25	117	124	126	127	129	131	126	125	124	124	124	124	124	124	126	124	118	114	104	103	113	120	124	125	122	
26 D	130	132	136	137	140	136	131	127	126	125	123	125	127	126	117	103	104	107	108	108	107	102	107	133	122	
27 D	174	243	237	230	198	179	171	80	96	129	136	137	129	127	141	145	138	127	120	126	132	133	132	138	150	
28	138	144	142	141	138	136	136	126	122	128	131	132	134	135	134	133	133	132	131	131	131	126	128	132	133	
29 Q	137	134	134	133	133	131	132	133	131	132	129	129	126	127	127	129	129	121	110	105	102	104	112	117	125	
30	128	127	127	125	126	126	126	129	128	127	126	126	126	126	128	129	122	107	108	110	114	121	126	135	124	
31	140	140	137	134	129	130	128	131	131	130	128	125	129	129	130	128	123	114	109	105	111	115	119	127	126	
MEAN	132	139	138	136	134	131	130	124	123	124	123	124	126	127	128	127	122	116	109	107	108	111	117	124	124	

HORIZONTAL INTENSITY

MEAN VALUES FOR PERIODS OF SIXTY MINUTES, UNIVERSAL TIME

TABLE 22 VICTORIA			H = 18,500 GAMMA +																			AUGUST		1969		
HOUR =	00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23	MEAN	
	TO 01	TO 02	TO 03	TO 04	TO 05	TO 06	TO 07	TO 08	TO 09	TO 10	TO 11	TO 12	TO 13	TO 14	TO 15	TO 16	TO 17	TO 18	TO 19	TO 20	TO 21	TO 22	TO 23	TO 24		
DAY																										
1 Q	437	439	439	440	436	436	437	442	442	443	442	438	441	442	444	441	429	410	391	383	389	399	419	428	429	
2	432	435	436	437	437	436	439	440	442	444	446	448	452	459	457	457	447	425	412	403	403	406	426	442	436	
3 D	450	454	456	445	437	444	448	450	451	441	438	440	441	441	439	436	425	415	398	413	422	413	416	410	434	
4	407	410	410	408	425	433	431	432	434	440	429	421	431	433	430	417	396	387	386	392	405	416	435	435	418	
5	437	435	434	425	426	429	430	433	434	434	439	436	438	441	443	434	424	417	412	409	406	413	417	424	428	
6	434	440	428	428	428	434	436	438	438	441	441	438	437	441	442	436	429	417	409	419	426	434	439	443	433	
7	441	444	448	447	442	443	444	445	442	452	452	457	453	453	446	446	438	426	412	402	407	419	432	427	438	
8	433	425	426	433	438	439	443	448	442	437	443	443	442	446	441	433	417	404	407	413	415	416	418	434	431	
9	430	427	437	418	429	435	437	441	438	442	444	450	449	447	453	453	440	426	424	425	424	425	429	432	436	
10	438	434	429	427	428	424	425	431	434	445	435	438	438	441	443	435	420	409	399	397	400	411	422	435	427	
11 Q	440	441	437	436	440	439	441	442	444	447	444	446	445	455	457	451	437	431	430	429	431	433	443	446	441	
12 D	451	455	423	428	428	431	439	436	446	438	437	431	435	444	444	436	415	400	423	434	439	435	426	427	433	
13	430	436	429	433	435	427	433	437	446	439	434	436	437	438	437	426	407	392	397	419	426	422	436	436	429	
14	437	431	434	439	436	434	436	438	437	436	441	434	438	443	441	436	425	410	399	404	411	415	425	430	430	
15	436	437	438	440	442	440	440	436	439	437	437	441	447	448	450	442	435	425	422	421	424	428	425	426	436	
16	431	435	439	441	442	440	442	442	446	446	450	448	447	449	454	445	430	421	421	430	427	420	423	430	437	
17	436	438	430	429	423	422	431	425	433	430	438	442	443	446	442	432	418	402	395	397	407	415	420	432	426	
18	433	434	427	433	440	442	443	445	446	449	449	453	450	444	442	449	441	429	423	420	417	422	433	438	438	
19 D	450	436	433	428	436	435	435	438	450	460	462	450	442	445	446	434	410	406	393	390	404	407	415	426	430	
20	431	424	423	427	425	425	433	436	426	433	433	432	433	430	434	425	404	393	396	400	403	409	423	433	422	
21	438	432	424	428	435	437	438	438	440	439	439	439	439	433	431	421	410	417	415	412	419	422	422	427	429	
22	422	434	434	438	441	441	443	445	447	448	450	451	448	449	446	439	429	417	416	418	423	423	437	448	437	
23	452	440	439	450	435	426	438	443	440	442	450	447	441	437	435	424	416	411	408	401	398	401	423	442	431	
24	440	427	429	432	435	438	439	445	443	441	443	438	438	444	451	444	430	411	410	406	408	414	429	438	432	
25 Q	437	439	436	442	435	437	438	441	441	440	442	441	443	444	442	429	411	401	403	408	410	417	422	430	430	
26 D	440	443	444	442	447	448	449	449	448	451	475	457	457	463	459	439	420	412	411	414	425	441	430	453	442	
27 D	445	456	427	422	404	414	427	431	432	440	423	426	435	434	431	419	411	401	382	383	406	420	430	436	422	
28	431	430	427	420	428	437	425	428	429	430	433	433	434	437	435	426	410	398	382	390	401	406	410	421	421	
29 Q	434	441	444	441	440	442	441	445	444	443	442	441	446	445	445	437	425	411	397	385	383	391	404	419	429	
30 Q	432	437	440	440	443	444	442	435	442	443	444	446	447	447	446	444	431	419	404	393	394	398	419	435	432	
31	449	448	446	443	443	445	448	444	438	434	437	440	442	443	441	430	408	398	389	392	398	404	416	431	429	
MEAN	437	437	434	434	434	435	438	439	440	441	442	441	442	444	443	436	422	411	405	407	411	416	425	433	431	

VERTICAL INTENSITY

MEAN VALUES FOR PERIODS OF SIXTY MINUTES, UNIVERSAL TIME

TABLE 24 VICTORIA			Z = 53,000 GAMMA +																				AUGUST		1969	
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 Q	139	135	134	130	126	126	128	128	129	130	126	125	125	122	120	121	121	115	109	105	100	100	112	125	122	
2	127	130	129	128	125	125	126	126	125	128	127	128	131	130	128	126	129	126	111	99	96	99	109	116	122	
3 D	125	127	130	126	120	121	122	123	124	125	126	124	119	116	118	115	106	91	89	91	91	90	111	130	115	
4	141	152	160	154	146	136	127	131	128	128	106	111	124	131	136	133	129	120	110	116	122	125	132	132	130	
5	139	138	137	144	140	136	128	130	128	128	130	127	115	119	125	125	121	115	107	102	104	115	121	129	125	
6	142	148	147	140	136	132	129	129	128	128	127	129	129	133	133	129	123	115	111	103	99	96	101	109	125	
7	119	127	126	126	123	125	125	123	121	126	124	127	125	129	126	126	122	114	101	92	90	101	119	130	119	
8	140	142	138	130	128	126	126	126	125	124	126	110	113	122	122	120	115	105	100	98	97	102	112	121	120	
9	128	133	141	141	137	131	128	127	126	125	125	125	124	123	122	125	123	112	111	113	117	115	125	130	125	
10	139	133	132	133	134	134	135	134	126	105	113	122	122	121	118	115	114	107	104	108	113	118	123	127	122	
11 Q	129	130	127	127	126	126	125	125	125	124	123	123	124	127	126	127	126	117	109	96	97	105	108	114	120	
12 D	119	129	128	135	140	138	134	131	116	120	120	90	95	113	116	121	118	106	99	102	100	102	110	118	117	
13	122	127	123	127	128	128	125	126	111	97	108	117	121	124	125	126	127	120	108	110	115	122	132	133	121	
14	139	133	131	131	127	127	128	117	120	122	108	110	111	110	114	120	119	111	103	101	104	108	114	115	118	
15	126	125	124	121	123	120	122	124	123	122	123	123	123	124	125	128	127	118	113	110	116	121	121	123	122	
16	126	124	120	120	120	120	119	122	122	121	117	113	119	123	125	125	117	102	94	93	101	106	113	121	116	
17	130	136	141	142	142	145	139	136	134	130	131	129	128	128	128	126	119	111	109	112	114	116	122	127	128	
18	131	132	132	127	124	124	123	123	123	122	120	122	121	122	116	109	112	102	95	100	109	115	119	124	119	
19 D	129	128	128	127	127	129	126	126	124	112	98	105	111	116	119	119	118	109	99	100	110	121	132	136	119	
20	129	127	127	135	134	135	131	109	115	119	119	124	128	125	123	126	120	111	107	107	112	117	120	128	122	
21	134	132	126	128	129	126	124	124	122	124	124	124	125	123	121	118	117	110	105	102	107	112	119	126	121	
22	127	129	126	125	123	123	122	121	120	121	121	120	118	117	119	119	120	115	105	98	97	99	105	115	117	
23	127	122	122	125	132	130	127	127	127	125	105	98	102	111	119	119	115	109	108	106	115	120	127	132	119	
24	136	134	133	131	129	126	125	123	122	123	122	120	124	125	127	127	127	115	106	106	109	110	110	117	122	
25 Q	123	129	129	128	126	124	125	121	119	118	120	119	120	120	123	124	120	109	103	103	106	105	109	115	118	
26 D	125	127	127	125	125	125	125	123	126	121	84	94	99	102	113	119	113	104	102	97	97	98	101	117	112	
27 D	127	139	149	181	154	150	142	134	129	116	104	109	113	124	126	126	127	117	103	104	118	128	131	137	129	
28	141	140	139	137	139	127	129	133	132	129	127	129	129	128	128	124	124	119	110	105	112	116	121	126	127	
29 Q	134	130	130	126	126	126	126	127	126	125	125	124	124	125	128	130	127	119	110	105	103	106	112	119	122	
30 Q	127	126	123	121	124	123	126	127	127	125	125	125	124	124	126	130	128	125	118	115	109	109	117	122	123	
31	131	127	121	121	121	120	122	120	115	119	121	123	124	124	125	123	120	109	97	98	108	114	120	126	119	
MEAN	131	132	132	132	130	129	127	126	124	122	119	118	120	122	123	123	121	112	105	103	106	110	117	124	121	

HORIZONTAL INTENSITY

MEAN VALUES FOR PERIODS OF SIXTY MINUTES, UNIVERSAL TIME

TABLE 25 VICTORIA

H = 18,500 GAMMA +

SEPTEMBER

1969

HOUR =	00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23	MEAN
	TO 01	TO 02	TO 03	TO 04	TO 05	TO 06	TO 07	TO 08	TO 09	TO 10	TO 11	TO 12	TO 13	TO 14	TO 15	TO 16	TO 17	TO 18	TO 19	TO 20	TO 21	TO 22	TO 23	TO 24	
DAY																									
1 Q	433	443	443	442	436	437	441	440	443	442	443	445	448	449	448	441	426	406	398	404	415	421	426	430	433
2 Q	437	443	445	444	444	447	447	444	441	443	446	447	446	449	448	443	428	410	395	397	410	422	432	440	435
3	448	450	451	449	450	448	448	452	450	449	452	451	448	448	445	435	421	415	415	416	421	425	436	438	440
4	437	436	438	434	434	441	442	444	448	454	454	452	454	450	446	434	421	412	413	422	436	442	442	438	439
5	441	442	445	450	450	450	454	452	449	450	455	462	464	453	420	428	409	401	393	386	411	433	431	416	435
6 D	395	415	413	406	416	413	434	424	432	430	433	426	436	434	433	422	415	402	400	405	418	409	416	429	419
7	436	427	424	431	433	433	434	433	423	415	430	435	436	435	433	418	404	397	390	394	406	412	409	415	421
8	414	428	420	419	417	420	410	397	380	408	427	426	428	427	426	421	404	391	391	398	409	421	432	435	415
9	435	427	423	429	431	433	446	434	437	439	442	441	427	424	436	425	404	403	398	396	401	406	415	420	424
10	427	433	433	423	426	432	436	438	439	440	439	441	437	434	431	426	413	401	395	402	410	410	429	439	426
11	442	413	409	409	418	419	418	421	412	422	430	433	434	430	435	430	420	410	409	409	423	432	435	439	423
12	441	428	434	435	425	444	436	436	438	442	441	441	441	440	436	426	416	408	405	404	412	420	431	439	430
13 Q	439	438	436	435	433	433	438	437	442	444	440	445	440	441	441	432	417	407	402	407	417	427	433	441	432
14	446	442	436	433	440	441	442	446	449	448	450	449	447	450	451	443	428	423	416	408	407	409	423	434	436
15	434	406	400	403	412	418	427	428	413	409	414	415	415	423	435	417	393	389	386	368	374	390	408	423	408
16	423	425	424	420	422	420	413	423	423	429	431	432	429	435	433	430	421	413	408	409	420	429	434	440	424
17	443	442	442	443	444	444	445	447	450	450	452	446	443	451	441	439	434	421	404	409	427	427	428	434	438
18 D	442	440	439	440	439	433	444	439	437	438	444	444	449	453	441	434	418	382	395	415	414	415	423	425	431
19	437	428	421	431	444	438	440	438	438	439	442	443	441	439	434	425	418	411	400	404	411	417	424	433	429
20	440	437	439	440	437	433	434	432	437	436	437	441	437	438	436	421	417	393	406	407	411	418	428	438	429
21	446	440	438	441	443	441	442	443	447	445	447	447	446	444	439	428	419	412	414	419	423	427	435	435	436
22 Q	434	436	439	438	437	443	453	446	447	445	446	448	445	448	446	438	426	417	413	415	425	433	440	441	437
23	440	440	442	445	443	444	448	448	451	453	455	458	459	455	449	445	439	422	418	414	407	406	420	433	439
24	438	441	439	442	437	436	437	434	439	443	440	442	443	443	440	432	417	400	396	402	413	426	439	440	432
25	442	432	438	436	417	433	447	439	441	442	443	444	441	439	422	417	416	404	401	400	406	428	432	429	429
26 Q	440	440	440	438	439	441	442	438	437	441	444	442	444	445	442	436	425	415	407	404	409	414	428	436	433
27	447	447	447	449	449	449	451	451	453	455	456	457	459	457	456	448	435	430	421	413	408	429	443	453	444
28 D	459	445	454	455	457	461	456	462	457	455	450	505	493	447	433	430	422	392	377	401	403	401	420	424	440
29 D	430	430	430	428	438	450	439	441	413	388	410	404	435	418	361	380	429	407	400	386	399	416	389	370	412
30 D	404	396	407	370	395	384	386	373	308	323	340	290	296	403	389	394	379	373	354	376	385	411	421	422	374
MEAN	436	433	433	432	434	435	438	436	432	434	438	438	439	440	435	428	418	406	401	403	411	418	427	431	428

DECLINATION

MEAN VALUES FOR PERIODS OF SIXTY MINUTES, UNIVERSAL TIME

TABLE 26 VICTORIA

D = 22 DEG 00.0 MIN EAST +

SEPTEMBER

1969

HOUR	= 00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23	MEAN
	TO 01	TO 02	TO 03	TO 04	TO 05	TO 06	TO 07	TO 08	TO 09	TO 10	TO 11	TO 12	TO 13	TO 14	TO 15	TO 16	TO 17	TO 18	TO 19	TO 20	TO 21	TO 22	TO 23	TO 24	
DAY																									
1 Q	23.6	25.0	25.5	25.6	25.5	25.3	25.7	25.5	26.0	25.8	26.2	26.6	27.1	28.6	31.4	34.2	36.3	35.1	30.2	24.1	20.5	20.0	20.9	23.0	26.6
2 Q	24.5	24.7	24.7	25.1	25.7	25.4	25.3	24.8	25.5	26.5	26.9	27.3	28.2	28.8	31.4	33.7	36.1	34.7	29.8	25.2	22.2	21.3	21.2	22.3	26.7
3	24.0	24.8	25.0	25.1	25.8	25.9	26.2	26.1	26.3	26.6	27.0	28.3	30.0	30.4	32.6	33.9	34.7	31.6	26.9	24.0	23.2	23.2	23.0	22.9	27.0
4	23.2	23.4	22.9	23.2	23.6	25.4	25.7	26.1	26.2	26.4	26.9	27.8	28.4	29.1	31.1	33.1	34.7	31.0	26.2	21.9	20.7	21.2	23.7	25.7	26.1
5	26.7	25.6	24.5	24.4	25.0	25.5	25.7	26.2	27.1	28.2	28.6	27.1	27.0	26.5	19.3	30.9	27.4	27.4	26.0	21.6	20.2	21.8	22.4	23.5	25.4
6 D	25.0	25.8	25.5	30.6	26.4	33.8	33.3	29.2	27.6	28.0	29.6	28.7	28.3	29.2	31.7	32.9	31.2	30.4	26.3	23.0	22.7	22.6	22.3	23.4	27.8
7	24.9	24.9	24.9	25.5	25.8	25.8	26.4	27.6	33.0	33.3	27.0	23.1	27.5	30.8	31.3	32.3	33.5	29.9	24.7	22.2	20.7	21.7	23.0	23.8	26.8
8	25.0	26.3	28.0	30.0	26.5	24.0	23.0	23.6	30.8	34.1	31.2	28.4	28.7	30.6	30.2	30.0	32.7	31.1	27.7	24.2	21.9	21.5	23.2	24.9	27.4
9	26.4	27.2	26.2	26.0	25.5	26.4	24.4	26.4	26.1	26.8	27.3	25.5	24.9	25.0	29.4	32.5	32.9	30.3	25.7	24.0	23.2	22.8	23.1	24.1	26.3
10	27.6	28.5	26.6	27.0	27.0	24.9	24.7	25.2	25.8	26.5	26.9	27.2	28.0	28.8	28.7	30.4	31.5	30.1	24.2	22.0	21.5	22.0	23.4	24.8	26.4
11	25.2	26.6	26.5	26.5	25.0	25.5	25.9	27.7	29.8	29.1	28.0	27.7	28.1	26.6	29.0	31.8	32.0	30.3	27.0	21.4	20.2	21.5	23.7	25.4	26.7
12	26.1	27.2	26.2	26.1	26.6	28.6	25.9	25.0	25.9	24.9	27.3	26.8	27.9	29.1	30.8	32.8	33.1	31.3	28.1	25.2	23.5	22.7	23.7	24.9	27.1
13 Q	26.3	26.9	26.6	26.0	25.9	25.6	25.5	25.7	25.0	25.3	27.5	27.8	29.3	29.7	31.1	32.9	34.2	32.0	28.6	25.2	23.1	22.3	23.0	24.2	27.1
14	25.4	26.3	26.1	27.1	26.6	25.8	25.8	25.6	26.1	26.8	24.9	28.6	29.3	30.2	32.0	34.4	35.6	30.6	27.1	25.3	20.7	19.2	19.7	21.7	26.7
15	19.4	23.0	31.1	30.1	27.4	25.4	30.5	26.6	28.0	28.9	29.6	30.7	32.1	32.9	34.7	31.1	24.5	22.2	24.3	24.6	22.9	21.4	21.2	21.9	26.0
16	25.2	26.1	27.4	32.5	27.5	28.7	28.1	27.2	28.0	27.4	27.0	28.6	29.1	29.4	31.2	32.1	32.6	31.8	30.5	28.7	26.0	24.3	24.5	24.8	28.3
17	24.9	25.1	25.4	25.3	25.9	25.9	25.8	25.9	26.2	26.9	28.3	33.6	35.1	33.0	34.9	34.2	33.5	32.7	32.0	24.0	22.2	22.0	22.8	23.9	27.9
18 D	23.3	23.0	25.0	24.5	23.9	25.9	25.7	26.3	26.5	27.1	26.4	24.2	25.7	29.4	31.3	30.7	30.9	27.4	21.9	21.2	21.8	21.2	21.8	22.5	25.3
19	23.8	23.0	25.2	26.2	29.8	28.4	26.2	25.8	26.4	26.1	26.9	27.8	26.7	27.7	29.9	30.8	31.5	30.4	29.9	27.7	25.5	24.3	23.5	23.3	26.9
20	23.9	25.0	25.9	27.1	26.4	27.3	28.4	27.5	27.5	29.9	28.1	28.0	27.2	26.7	29.7	30.0	29.1	29.8	27.5	25.7	24.0	22.4	23.1	24.1	26.8
21	24.2	24.6	24.7	24.9	26.2	26.2	26.2	25.8	24.6	26.4	26.9	27.8	28.1	28.5	29.5	30.3	29.7	29.6	27.1	26.0	24.7	24.0	24.3	24.3	26.4
22 Q	24.9	24.8	24.5	24.9	25.4	25.8	24.6	26.2	27.2	27.4	27.9	29.1	29.1	28.7	29.4	30.8	31.6	31.1	29.2	26.4	24.6	24.3	24.5	25.3	27.0
23	25.5	24.8	24.7	24.7	25.5	25.7	25.6	25.2	26.3	26.6	27.1	27.6	28.4	26.8	27.1	31.6	31.0	28.0	25.5	24.2	24.0	21.7	22.6	24.0	26.0
24	25.5	25.2	24.5	25.2	25.2	26.2	25.1	25.7	26.8	27.7	29.3	29.8	29.4	29.2	30.5	31.9	33.2	33.1	30.2	27.0	24.0	23.2	23.4	24.7	27.3
25	24.6	25.3	24.8	25.7	28.6	26.0	26.5	26.0	25.8	26.3	27.3	27.7	28.5	29.3	29.9	29.2	28.5	29.5	28.6	25.4	22.2	21.0	21.5	22.8	26.3
26 Q	25.0	25.0	25.7	25.8	25.9	25.9	26.1	29.2	26.9	24.2	28.7	28.0	28.2	29.0	30.1	32.1	33.5	32.9	30.8	27.6	25.2	23.9	22.9	23.3	27.3
27	<u>24.1</u>	<u>25.0</u>	<u>25.7</u>	<u>26.1</u>	<u>26.3</u>	<u>26.5</u>	<u>26.3</u>	<u>26.1</u>	<u>25.9</u>	<u>26.1</u>	<u>26.1</u>	<u>26.5</u>	<u>26.5</u>	<u>27.0</u>	<u>28.3</u>	<u>30.1</u>	<u>31.4</u>	<u>30.3</u>	<u>28.3</u>	<u>26.3</u>	<u>22.8</u>	<u>19.2</u>	<u>18.1</u>	<u>18.6</u>	<u>25.7</u>
28 D	<u>19.6</u>	<u>20.6</u>	<u>24.5</u>	<u>25.0</u>	<u>24.7</u>	<u>24.3</u>	<u>25.0</u>	<u>25.7</u>	<u>27.9</u>	<u>27.4</u>	<u>25.7</u>	<u>40.7</u>	<u>36.8</u>	<u>29.6</u>	<u>32.3</u>	<u>34.1</u>	<u>33.7</u>	<u>27.6</u>	<u>24.6</u>	<u>22.5</u>	<u>20.6</u>	<u>20.6</u>	<u>22.8</u>	<u>26.7</u>	
29 D	24.9	26.2	26.2	29.4	28.1	24.7	24.5	26.5	20.6	22.7	37.9	32.2	26.8	31.1	29.9	27.3	30.1	31.5	27.9	25.0	25.8	23.9	22.1	23.2	27.0
30 D	18.4	26.4	33.1	33.5	30.0	29.0	28.9	22.4	13.6	44.0	45.0	33.6	31.0	26.1	22.7	25.9	26.9	25.8	28.3	26.9	27.0	25.6	25.3	25.7	28.1
MEAN	24.4	25.2	25.9	26.6	26.3	26.3	26.2	26.1	26.2	27.8	28.5	28.1	28.8	29.2	30.0	31.5	31.9	30.5	27.6	24.7	23.0	22.2	22.6	23.7	26.8

VERTICAL INTENSITY

MEAN VALUES FOR PERIODS OF SIXTY MINUTES, UNIVERSAL TIME

TABLE 27 VICTORIA

Z = 53,000 GAMMA +

SEPTEMBER 1969

HOUR =	00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23	MEAN	
	TO 01	TO 02	TO 03	TO 04	TO 05	TO 06	TO 07	TO 08	TO 09	TO 10	TO 11	TO 12	TO 13	TO 14	TO 15	TO 16	TO 17	TO 18	TO 19	TO 20	TO 21	TO 22	TO 23	TO 24		
DAY																										
1 Q	129	129	126	124	122	122	122	122	121	120	122	121	123	124	126	125	120	110	100	96	99	107	115	117	118	
2 Q	122	123	123	122	121	120	119	120	122	123	125	123	123	124	123	121	117	103	97	98	101	107	113	117	117	
3	123	124	122	121	120	117	118	117	118	118	120	117	114	120	122	120	113	104	98	97	101	103	106	111	114	
4	117	121	122	124	125	125	124	122	122	121	121	120	121	121	122	119	110	100	91	93	102	112	118	119	116	
5	123	119	120	121	120	119	119	119	121	122	121	119	102	85	57	41	65	84	88	98	118	128	137	145	108	
6 D	148	144	148	150	143	141	117	124	131	128	113	87	115	120	127	128	128	122	117	116	116	118	126	124	126	
7	128	129	129	127	128	125	127	126	121	113	124	110	110	114	123	126	128	118	108	106	121	126	130	141	122	
8	141	145	143	146	148	150	140	82	73	99	123	133	135	134	130	132	137	130	124	122	127	128	132	133	129	
9	133	134	128	130	131	129	117	114	125	126	127	123	112	102	104	104	107	108	105	110	117	122	128	131	119	
10	136	141	135	132	134	132	129	129	127	126	126	126	124	125	124	123	119	109	107	106	115	121	128	128	125	
11	134	132	140	143	142	138	135	131	125	126	131	130	128	125	127	130	131	128	123	122	126	130	131	135	131	
12	135	127	126	126	128	127	123	125	126	122	123	123	121	124	123	123	122	119	117	116	116	119	125	126	123	
13 Q	128	124	123	124	124	125	125	125	125	118	119	121	118	122	125	127	125	120	112	109	112	116	123	127	122	
14	128	123	123	124	124	125	125	126	126	123	114	116	119	120	123	123	115	105	98	97	106	118	133	140	120	
15	153	165	185	164	153	145	150	141	143	139	132	131	131	125	123	110	93	91	93	102	115	126	138	143	133	
16	147	141	138	138	137	138	138	137	135	136	134	130	131	134	135	138	138	138	136	134	134	135	136	136	136	
17	133	129	126	126	125	126	125	126	127	127	129	116	122	125	121	121	117	113	110	112	114	114	119	121	122	
18 D	125	127	131	132	131	136	128	131	130	128	126	122	111	118	109	114	110	103	108	112	115	121	127	134	122	
19	141	140	139	139	138	125	125	127	127	126	121	124	125	125	125	125	123	124	119	114	114	118	121	122	126	
20	129	127	127	127	127	126	127	125	117	108	119	123	121	118	116	115	110	114	110	111	116	117	123	120	120	
21	131	127	128	128	129	127	128	125	119	118	121	121	123	123	123	124	122	120	117	118	119	122	126	128	124	
22 Q	128	127	129	128	128	128	122	118	119	121	122	121	122	122	125	127	128	124	122	118	120	124	124	119	124	
23	118	122	123	124	123	124	124	123	123	123	122	122	121	119	109	111	109	110	113	116	118	123	129	133	120	
24	129	127	126	126	130	132	130	131	130	128	123	122	122	123	127	128	127	122	118	117	119	124	124	123	125	
25	124	120	125	127	130	133	130	121	127	125	126	124	123	123	123	121	120	116	113	114	117	124	131	129	124	
26 Q	127	126	125	127	127	126	127	128	128	120	117	123	122	122	124	127	124	118	110	107	113	118	121	120	122	
27	125	124	123	123	123	122	121	121	121	121	120	119	118	116	117	118	115	113	114	111	111	113	115	117	118	
28 D	125	120	124	123	122	120	122	121	121	121	121	95	45	55	74	84	91	95	95	98	107	113	127	129	106	
29 D	135	138	137	135	137	137	135	120	63	19	43	85	83	83	47	33	72	89	99	106	122	132	134	166	102	
30 D	229	239	323	268	187	181	181	137	-7	42	0	-57	-57	41	90	106	114	121	131	150	153	153	148	144	126	
MEAN	134	134	137	135	132	131	128	124	117	116	116	113	111	114	115	115	115	112	110	111	116	121	126	129	121	

HORIZONTAL INTENSITY

MEAN VALUES FOR PERIODS OF SIXTY MINUTES, UNIVERSAL TIME

TABLE 28 VICTORIA				H = 18,500 GAMMA +																	OCTOBER					1969
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	434	400	404	415	416	415	413	408	406	417	401	417	413	435	431	419	407	413	410	405	397	390	402	415	412	
2 D	415	415	409	422	421	430	406	388	373	380	393	407	421	442	403	378	398	406	395	392	398	400	404	406	404	
3 D	409	414	407	409	411	406	417	421	419	429	425	423	421	433	421	420	416	405	389	400	416	417	422	422	416	
4	423	419	425	425	427	426	425	426	429	432	432	426	434	435	431	432	425	402	406	417	413	415	419	423	424	
5	423	426	434	433	432	432	434	436	442	441	433	434	439	440	435	430	425	418	406	405	407	417	425	429	428	
6 D	431	431	426	427	420	422	425	425	428	435	440	438	438	431	435	430	409	392	389	395	401	413	421	426	422	
7	428	433	427	413	423	428	428	438	431	434	435	433	435	436	432	430	426	421	410	404	404	410	416	424	425	
8 Q	432	434	435	438	437	437	441	443	446	443	444	445	446	443	441	441	440	429	416	415	417	421	423	427	435	
9	431	433	436	435	435	433	436	435	437	439	442	443	442	440	439	435	432	432	428	433	422	420	437	449	435	
10 D	449	450	434	416	421	427	424	432	431	430	422	430	431	437	442	437	433	422	400	386	390	398	416	421	424	
11	424	417	421	428	430	417	420	419	426	432	432	442	437	440	440	432	418	409	406	411	412	412	423	435	424	
12	440	431	423	434	435	432	431	442	426	431	435	436	441	446	436	432	430	416	406	407	409	421	431	436	429	
13	434	438	437	438	435	431	434	441	437	440	449	440	441	444	440	436	428	423	417	416	421	423	429	432	434	
14 Q	439	444	448	445	444	444	443	444	447	449	447	450	448	445	443	438	428	417	411	412	413	422	429	435	437	
15 Q	439	443	443	442	441	440	447	437	441	440	448	452	451	452	451	443	433	421	413	415	421	429	436	440	438	
16	441	441	443	444	443	444	453	450	449	451	453	453	453	450	445	435	422	427	430	426	422	428	429	429	440	
17	427	434	440	441	439	437	438	438	441	444	448	449	452	452	451	447	440	432	428	423	419	420	414	414	436	
18	418	426	433	436	438	438	434	430	425	436	432	451	446	443	444	440	433	427	423	424	431	443	440	446	435	
19	454	450	446	450	455	453	445	451	445	442	440	442	443	444	441	437	424	413	411	413	421	427	429	430	438	
20	434	435	442	443	443	445	444	445	443	446	446	449	450	450	447	441	435	429	420	421	417	419	428	436	438	
21	441	443	447	449	449	450	448	450	454	441	445	446	445	447	445	433	429	424	424	422	431	436	435	439	441	
22	442	441	441	442	441	439	436	441	441	445	447	449	444	440	443	437	425	410	410	413	424	430	433	437	435	
23	440	445	443	442	442	444	444	448	445	449	451	451	452	451	448	443	436	432	428	427	423	421	430	434	440	
24	438	443	434	425	431	437	437	430	424	439	447	447	453	449	447	441	432	426	418	417	423	434	433	441	435	
25	450	454	448	439	433	435	438	441	442	446	447	448	449	449	450	449	441	432	424	419	418	416	427	431	439	
26 Q	438	442	446	444	444	442	443	441	435	443	447	447	448	449	449	448	441	431	424	417	422	428	433	436	439	
27	447	449	454	451	449	447	448	446	443	445	447	446	449	449	447	439	429	425	417	410	402	409	423	429	433	
28	437	433	433	432	439	440	442	441	438	441	444	448	449	448	447	439	429	425	417	410	402	409	423	429	433	
29	432	439	439	440	444	446	445	445	445	447	448	449	450	449	448	444	433	422	412	406	416	422	427	433	437	
30 Q	440	444	444	447	446	447	446	446	445	445	445	445	446	446	447	441	433	424	417	416	424	433	441	445	440	
31	447	451	448	440	439	436	430	430	428	436	437	448	435	443	446	443	435	424	410	404	408	416	422	434	433	
MEAN	435	435	435	435	436	435	435	436	434	438	439	441	442	444	441	436	428	420	413	412	414	419	425	431	432	

DECLINATION

MEAN VALUES FOR PERIODS OF SIXTY MINUTES, UNIVERSAL TIME

TABLE 29 VICTORIA

D = 22 DEG 00.0 MIN EAST +

OCTOBER 1969

HOUR =	00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23	MEAN
TO	TO	TO	TO	TO	TO	TO	TO	TO	TO	TO	TO	TO	TO	TO	TO	TO	TO	TO	TO	TO	TO	TO	TO	TO	
01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24		
DAY																									
1 D	26.9	28.2	29.6	27.8	28.6	29.0	27.8	29.3	29.8	26.5	25.8	26.9	22.4	28.2	30.7	31.8	32.2	27.6	27.3	30.0	29.8	28.4	26.4	25.3	28.2
2 D	25.1	32.4	25.9	25.9	26.8	32.2	32.2	35.2	39.3	34.5	33.0	28.3	23.0	28.0	21.2	18.1	20.5	26.9	29.3	28.1	27.7	27.3	26.6	26.3	28.1
3 D	26.7	27.2	33.4	32.3	28.0	28.6	27.8	28.3	27.5	25.3	26.5	27.9	20.8	21.9	18.6	18.5	23.2	30.4	26.3	26.8	25.6	25.3	26.0	26.3	26.2
4	26.7	27.2	27.2	26.9	27.3	27.5	28.3	27.8	27.5	24.8	28.1	27.7	27.0	27.8	27.5	29.1	31.3	30.0	28.5	28.0	26.6	26.1	25.2	25.1	27.5
5	26.9	25.5	25.9	26.3	26.2	28.1	28.1	26.8	28.3	29.0	29.1	29.1	27.5	27.2	28.2	30.4	31.0	32.1	31.7	26.9	24.6	23.0	23.4	23.7	27.5
6 D	24.5	25.7	26.2	30.3	26.3	27.1	28.3	27.4	26.7	27.3	23.2	26.9	26.6	26.7	24.8	26.9	27.4	23.9	20.6	20.2	21.2	21.5	23.7	24.7	25.3
7	25.2	25.4	25.1	30.3	26.0	26.8	27.7	25.9	25.7	26.2	27.1	27.6	26.3	27.1	28.5	29.2	29.4	29.2	27.9	25.2	23.0	22.6	23.3	26.7	
8 Q	24.4	25.1	25.8	26.0	26.1	26.0	26.3	26.1	27.7	26.6	26.6	26.9	26.9	27.1	27.0	28.3	28.9	29.4	28.9	26.0	24.2	22.7	22.4	23.0	26.2
9	24.3	25.1	25.5	25.8	26.1	26.6	25.8	26.5	26.1	26.6	26.4	26.9	27.0	27.8	27.7	28.7	30.6	29.8	28.7	26.0	24.6	20.8	22.8	24.0	26.3
10 D	24.5	24.4	25.1	27.0	26.7	28.0	28.9	26.6	28.1	33.8	30.7	34.0	27.9	26.2	29.9	29.4	27.5	27.0	29.0	25.7	23.8	22.9	23.8	24.5	27.3
11	25.1	25.6	26.0	25.7	25.9	28.7	28.8	28.0	27.3	26.3	23.1	27.6	30.2	27.5	31.4	30.5	31.2	30.7	27.7	25.3	23.3	22.8	24.1	24.4	27.0
12	24.6	25.6	27.6	26.0	26.1	25.9	26.1	22.2	26.8	29.0	30.0	30.5	29.9	32.6	29.3	26.9	28.2	29.6	29.2	27.1	25.2	23.9	24.0	24.5	27.1
13	25.5	26.1	26.0	26.4	26.2	26.9	25.8	26.1	25.3	26.3	26.3	29.1	28.8	28.9	29.0	30.9	30.8	29.9	28.6	26.8	24.0	23.5	23.7	24.2	26.9
14 Q	24.7	25.3	26.0	26.4	26.4	26.3	26.3	26.1	26.1	26.0	26.4	27.0	26.9	27.8	28.8	30.5	31.6	30.6	27.1	23.9	22.2	22.2	23.1	24.1	26.3
15 Q	24.8	25.8	26.4	26.6	26.6	26.6	25.7	25.5	26.0	27.0	27.3	26.8	29.8	30.1	30.0	31.0	31.7	31.5	30.0	28.1	26.1	25.2	25.0	25.6	27.5
16	25.7	25.3	25.5	26.1	25.5	25.7	24.3	25.4	26.0	26.1	26.7	27.0	27.2	27.9	28.9	30.6	31.4	26.5	24.0	23.1	21.1	21.2	22.1	23.4	25.7
17	24.6	24.9	25.3	26.0	26.0	26.2	26.1	26.2	26.2	26.7	27.0	27.2	26.9	27.5	28.3	30.2	31.5	31.8	29.6	27.3	24.6	22.5	21.3	22.1	26.5
18	23.4	23.9	25.8	26.0	26.2	26.3	29.9	27.3	27.5	28.6	25.5	27.5	27.8	27.3	27.6	28.8	29.4	30.1	27.9	24.4	22.9	22.4	23.7	23.9	26.4
19	23.8	23.6	24.1	24.5	24.6	25.1	25.8	27.9	27.5	27.2	27.8	29.6	26.8	30.5	28.3	29.2	30.4	30.1	26.7	23.8	22.3	21.8	23.1	24.0	26.2
20	24.5	25.3	25.1	25.4	25.6	26.2	25.9	26.5	26.8	26.9	27.1	26.9	27.0	27.3	28.0	29.1	30.2	31.0	29.7	26.9	24.1	23.4	23.5	24.7	26.5
21	24.1	24.3	24.9	25.5	25.7	26.0	26.2	26.7	28.0	30.1	29.6	27.8	27.6	28.1	28.7	29.8	28.7	29.0	26.0	23.5	22.5	23.0	24.7	25.5	26.5
22	25.9	25.2	25.4	25.9	25.7	27.8	25.0	26.1	26.3	26.6	27.1	28.4	29.3	27.9	27.2	29.7	30.9	31.9	29.5	26.8	25.2	25.6	26.0	25.5	27.1
23	25.9	24.6	25.5	25.9	26.2	26.5	26.8	26.0	26.2	26.5	26.7	26.8	27.0	27.1	27.6	28.7	29.8	30.3	28.5	26.1	23.9	24.2	23.9	24.5	26.5
24	24.1	25.2	25.8	26.3	26.9	31.4	28.4	30.6	30.0	30.0	27.8	28.9	29.9	28.0	29.6	30.4	29.2	29.0	28.1	25.9	25.1	25.1	25.8	24.5	27.8
25	24.6	25.2	25.6	26.1	26.5	29.0	25.7	26.2	26.1	26.6	27.2	27.5	27.2	27.3	27.7	29.3	30.0	30.9	30.5	27.5	25.1	25.2	24.1	24.9	26.9
26 Q	25.0	25.3	25.4	25.9	25.9	26.0	27.9	28.8	27.8	26.6	26.6	26.9	27.0	27.4	27.6	29.1	30.2	30.9	29.7	28.2	24.8	23.3	23.2	23.9	26.8
27	24.5	25.1	25.7	26.1	26.0	26.1	26.0	26.3	26.8	28.0	27.7	27.6	27.3	26.7	27.6	30.0	31.9	32.6	30.9	28.7	25.8	22.8	21.0	22.3	26.8
28	22.1	23.3	23.9	24.9	25.8	26.5	26.5	27.3	27.2	27.5	26.1	26.4	26.5	27.4	28.2	29.7	30.7	30.7	30.8	26.6	23.5	21.7	22.6	23.7	26.2
29	25.2	25.5	25.6	26.8	27.4	26.3	26.3	26.2	26.2	26.2	26.4	26.6	26.8	27.0	27.6	28.9	30.0	30.7	29.6	25.8	22.4	22.0	22.6	24.5	26.4
30 Q	24.7	25.5	25.8	26.1	26.5	26.5	27.0	26.3	25.7	25.8	26.2	26.5	26.8	27.4	28.0	29.0	30.3	31.9	30.1	27.1	24.5	23.9	23.6	24.2	26.6
31	24.7	25.1	26.2	27.0	27.8	26.4	27.0	28.1	29.3	29.0	27.4	26.8	28.1	27.5	27.9	28.5	28.8	30.9	29.7	27.9	25.4	24.4	23.9	24.0	27.2
MEAN	24.9	25.5	26.0	26.6	26.4	27.2	27.1	27.1	27.5	27.5	27.2	27.8	27.1	27.7	27.8	28.7	29.6	29.9	28.5	26.3	24.4	23.6	23.8	24.4	26.8

VERTICAL INTENSITY

MEAN VALUES FOR PERIODS OF SIXTY MINUTES, UNIVERSAL TIME

TABLE 30 VICTORIA

Z = 53,000 GAMMA +

OCTOBER

1969

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	151	150	151	151	149	148	134	125	132	133	106	97	78	115	127	127	133	134	129	130	133	135	137	137	131	
2 D	143	152	148	143	142	135	122	122	93	55	38	60	52	89	81	71	90	123	134	135	139	141	146	145	112	
3 D	148	147	147	144	144	140	135	135	133	127	124	117	92	81	72	78	87	98	103	102	110	118	127	131	118	
4	132	134	136	134	134	129	131	131	132	124	123	123	123	125	129	134	134	129	127	126	124	125	131	133	129	
5	137	138	137	137	136	135	136	133	131	126	121	124	128	128	132	135	133	132	129	128	124	127	125	127	131	
6 D	131	135	137	138	140	143	142	139	140	134	120	117	117	118	120	122	124	121	118	114	117	123	125	128	128	
7	131	135	137	141	144	141	140	127	126	125	125	126	127	128	131	132	130	131	126	118	112	113	118	124	129	
8 Q	131	130	131	131	130	131	131	130	129	128	126	126	127	125	125	127	127	123	119	114	109	111	117	122	125	
9	128	128	130	131	131	131	129	128	131	130	129	127	128	127	129	131	132	126	115	112	106	110	118	123	125	
10 D	123	128	128	140	143	147	143	141	130	124	95	101	104	101	117	122	120	121	120	118	120	123	125	130	124	
11	136	136	139	140	137	138	138	137	138	138	118	121	121	109	109	120	128	125	115	112	116	123	128	130	127	
12	132	133	137	136	134	134	134	116	111	125	123	122	110	100	96	101	105	113	116	118	120	124	126	129	121	
13	128	128	129	128	128	131	130	127	128	130	124	107	115	120	125	128	128	127	122	116	117	118	124	127	124	
14 Q	128	128	128	129	127	128	127	129	128	129	128	128	127	127	128	129	132	128	124	119	119	121	125	128	127	
15 Q	129	130	129	128	127	128	125	124	127	127	128	122	121	123	125	126	128	127	124	120	117	124	125	127	125	
16	127	126	126	127	126	125	119	119	125	127	126	127	125	125	123	126	127	120	115	114	117	122	122	125	123	
17	130	130	129	128	127	127	127	127	129	128	127	128	128	126	126	130	130	128	119	116	116	120	121	130	126	
18	136	138	137	136	133	134	133	132	134	133	129	122	127	130	130	131	134	132	118	114	116	122	127	128	129	
19	129	130	129	129	128	127	127	130	120	128	130	129	114	108	120	128	133	130	121	120	124	129	126	124	126	
20	131	131	131	134	132	132	129	131	128	127	128	128	127	127	127	132	133	133	125	117	118	124	126	127	128	
21	130	129	131	130	130	128	127	128	125	118	124	127	128	127	127	130	128	125	120	118	122	126	126	126	126	
22	127	128	127	128	128	131	132	131	129	127	121	125	121	123	127	130	130	129	122	117	117	120	118	118	125	
23	121	124	126	127	126	127	127	127	126	126	126	125	123	124	124	127	129	125	121	114	112	117	119	120	123	
24	124	128	128	131	136	138	139	139	141	136	131	128	114	114	120	124	124	124	117	117	116	119	120	123	126	
25	124	125	123	124	126	129	129	130	128	128	124	125	125	125	126	129	130	131	121	109	109	115	117	120	124	
26 Q	124	127	125	127	125	127	128	128	128	129	128	128	125	125	126	129	129	130	122	109	110	117	118	122	124	
27	125	125	126	126	125	125	126	129	128	129	123	125	124	122	120	128	130	130	128	122	112	119	124	126	125	
28	130	131	130	132	132	131	132	131	131	132	130	129	127	125	127	129	130	129	123	117	113	118	122	123	127	
29	127	127	127	129	130	129	127	127	127	128	127	126	126	125	126	127	129	126	119	112	114	116	122	128	125	
30 Q	129	128	127	128	125	126	125	125	124	124	125	125	125	125	125	126	128	128	121	117	120	124	122	122	125	
31	124	126	124	124	124	126	126	127	121	123	119	105	101	108	115	118	122	125	122	119	119	120	123	126	120	
MEAN	131	132	132	133	132	132	131	129	128	126	121	120	117	119	120	123	126	126	121	117	117	121	124	127	125	

HORIZONTAL INTENSITY

MEAN VALUES FOR PERIODS OF SIXTY MINUTES, UNIVERSAL TIME

TABLE 31 VICTORIA

H = 18,500 GAMMA +

NOVEMBER 1969

HOUR =	00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23	MEAN
	TO 01	TO 02	TO 03	TO 04	TO 05	TO 06	TO 07	TO 08	TO 09	TO 10	TO 11	TO 12	TO 13	TO 14	TO 15	TO 16	TO 17	TO 18	TO 19	TO 20	TO 21	TO 22	TO 23	TO 24	
DAY																									
1 Q	436	435	437	440	441	441	442	443	444	446	445	447	448	447	449	449	441	430	409	409	409	418	425	432	436
2	435	437	441	438	441	441	439	442	442	444	448	447	448	450	444	432	427	432	425	407	416	418	425	423	435
3 D	422	424	431	436	432	432	415	416	422	431	440	441	440	439	437	431	440	436	422	412	400	404	414	423	427
4	435	440	438	424	431	437	438	440	440	438	444	439	443	443	443	445	442	434	418	409	404	410	417	423	432
5	429	430	435	440	443	437	437	440	440	449	446	453	450	451	447	444	447	451	440	433	430	435	439	448	441
6 Q	450	451	448	448	446	447	447	450	450	451	451	450	450	449	448	442	436	433	427	425	431	432	441	454	444
7	456	458	443	443	435	426	424	427	433	438	446	443	452	445	448	450	447	439	427	423	418	420	424	430	437
8	433	437	438	435	432	432	437	435	439	442	442	443	445	448	451	446	446	419	412	405	414	412	415	418	432
9 D	428	437	440	439	426	413	411	415	416	374	413	440	419	422	391	400	429	417	414	414	418	426	435	441	420
10 D	445	437	437	432	424	430	447	425	432	434	441	432	435	429	436	428	417	407	384	356	372	405	412	424	422
11	434	434	435	435	432	432	434	436	437	434	432	433	442	444	437	423	428	421	409	399	404	414	430	437	429
12	430	424	441	442	442	443	438	438	439	441	440	439	442	440	440	437	427	410	414	412	411	417	424	430	432
13	442	445	446	446	444	442	443	441	442	438	438	441	445	445	444	444	438	428	419	414	414	420	426	433	437
14 Q	442	443	442	443	440	442	439	438	442	442	441	443	444	444	442	440	435	427	416	412	418	426	432	435	436
15 Q	441	445	446	446	446	446	444	444	445	445	447	449	448	448	447	444	438	434	429	424	424	426	432	440	441
16	447	452	451	453	452	450	450	448	447	448	448	451	452	452	453	452	449	439	433	427	426	429	437	446	446
17	451	456	455	454	456	455	452	451	450	450	450	450	449	449	448	448	444	438	436	428	429	436	437	442	446
18	447	449	453	451	450	453	449	447	448	451	451	450	450	450	451	449	440	428	430	432	424	421	427	436	443
19	443	449	450	450	450	449	444	444	444	448	450	451	449	452	451	449	444	437	431	431	417	414	420	421	441
20	430	439	438	440	441	445	441	442	444	445	445	444	445	447	447	446	448	446	443	438	433	431	434	438	441
21 Q	448	448	445	445	446	445	443	445	449	451	450	452	452	451	448	446	447	441	430	425	423	426	433	439	443
22	444	447	449	451	453	446	441	445	451	451	454	456	457	454	454	449	443	429	421	424	435	443	441	446	441
23	445	449	451	450	448	450	448	449	450	453	452	453	455	455	454	447	436	426	418	410	407	417	429	436	441
24	443	448	444	444	443	442	442	444	447	446	451	452	451	454	452	452	447	435	429	422	410	416	427	436	441
25	446	450	452	452	450	450	442	441	439	442	445	449	453	452	448	444	439	438	430	422	416	416	423	428	440
26	438	439	432	430	435	439	443	439	441	444	445	446	450	446	445	455	452	463	436	422	409	411	421	433	438
27 D	441	441	440	437	412	408	407	417	414	419	430	420	426	443	434	421	432	415	406	407	407	407	408	397	420
28	410	417	420	425	421	422	422	424	422	437	437	438	437	437	436	443	438	428	428	425	406	404	401	418	425
29	427	430	431	437	435	433	426	422	422	432	434	435	433	430	441	438	430	416	394	388	375	379	399	399	420
30 D	406	399	407	410	423	421	415	418	411	426	426	430	430	431	433	428	423	418	415	399	398	398	405	414	416
MEAN	437	440	441	441	439	438	437	437	438	440	443	444	445	445	443	441	439	431	422	415	413	417	425	431	435

DECLINATION

MEAN VALUES FOR PERIODS OF SIXTY MINUTES, UNIVERSAL TIME

TABLE 32 VICTORIA

D = 22 DEG 00.0 MIN EAST +

NOVEMBER

1969

HOUR =	00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23	MEAN
	TO 01	TO 02	TO 03	TO 04	TO 05	TO 06	TO 07	TO 08	TO 09	TO 10	TO 11	TO 12	TO 13	TO 14	TO 15	TO 16	TO 17	TO 18	TO 19	TO 20	TO 21	TO 22	TO 23	TO 24	
DAY																									
1 Q	24.1	25.1	26.0	26.3	26.2	26.2	26.1	26.1	26.1	26.2	26.1	26.5	26.4	27.0	27.5	29.3	32.0	33.0	31.3	29.5	26.4	25.1	24.4	24.1	27.0
2	24.7	23.6	25.5	26.1	26.3	26.4	26.4	26.8	28.2	28.7	25.8	27.0	26.5	26.3	24.8	23.4	23.0	26.6	30.6	29.5	26.5	25.2	23.9	24.7	26.1
3 D	25.1	24.4	25.7	26.3	26.5	29.3	29.6	30.9	26.3	27.0	26.7	27.0	26.8	25.2	26.1	24.7	26.5	30.2	30.2	28.2	28.0	25.6	24.8	24.6	26.9
4	24.3	25.0	25.4	26.5	26.4	26.5	26.6	28.4	27.8	25.8	26.0	27.9	25.8	25.7	26.1	27.9	28.8	30.3	28.7	26.7	25.9	24.3	23.4	23.6	26.4
5	23.7	24.7	25.9	25.9	26.6	26.4	26.0	26.6	26.8	27.2	26.1	26.5	27.0	27.1	26.4	25.2	27.7	30.0	28.4	27.2	26.0	25.3	24.7	24.6	26.3
6 Q	25.2	25.6	26.0	26.4	26.4	26.3	26.2	26.3	25.6	26.1	26.0	26.5	26.3	26.9	27.4	29.0	30.5	30.2	28.5	27.3	25.4	24.6	24.6	23.8	26.5
7	24.1	23.9	26.6	25.4	25.0	26.8	27.2	28.6	28.0	31.4	27.6	26.9	27.3	28.3	29.0	30.0	29.5	29.7	26.6	25.7	23.9	24.2	24.0	25.3	26.9
8	25.9	26.1	26.8	26.7	27.8	26.5	28.4	26.5	25.9	25.8	25.3	25.7	26.7	27.3	26.4	23.1	30.0	30.5	24.9	25.7	23.7	22.1	23.4	24.6	26.1
9 D	25.3	26.2	26.8	26.8	26.3	28.0	41.1	33.9	30.5	18.7	22.7	30.7	28.0	25.6	19.6	22.6	27.4	31.6	26.3	22.6	23.7	24.2	24.7	25.3	26.6
10 Q	24.8	26.7	27.1	27.2	27.7	25.4	37.2	29.5	26.1	23.8	26.1	25.2	24.5	23.6	30.5	32.2	31.7	30.2	28.1	22.4	20.9	24.5	24.3	25.5	26.9
11	25.4	26.6	26.6	27.1	28.0	27.7	27.0	25.8	26.8	25.3	26.9	24.4	26.6	27.6	26.7	26.3	29.9	31.3	29.6	27.8	26.8	25.5	24.4	24.7	26.9
12	24.5	27.1	26.8	26.6	28.1	28.0	26.6	26.5	26.3	25.1	26.5	27.0	26.9	26.5	27.2	29.7	32.1	31.3	28.4	26.6	25.3	24.2	24.0	23.7	26.9
13	24.8	25.1	26.6	26.5	27.0	26.8	26.7	26.4	26.6	27.1	26.8	26.9	27.4	27.7	27.8	29.9	30.2	28.9	26.7	25.8	25.1	23.9	24.0	24.1	26.6
14 Q	24.2	24.6	25.6	26.3	26.3	26.6	26.6	26.3	26.5	26.2	26.4	26.7	26.7	27.6	27.7	28.9	29.9	30.2	29.1	27.5	25.8	24.5	24.2	24.5	26.6
15 Q	25.0	25.5	26.3	26.7	26.7	26.7	26.6	26.5	26.5	26.4	26.6	26.2	26.8	27.1	27.5	28.7	30.2	30.5	28.7	26.9	25.4	24.9	24.3	23.8	26.7
16	24.1	25.5	26.0	26.4	26.6	26.6	26.6	26.7	26.3	26.2	26.2	26.4	26.4	27.0	27.5	28.4	30.5	31.7	29.3	28.2	25.6	24.8	24.5	25.0	26.8
17	24.9	25.0	25.6	25.9	26.3	26.5	26.4	26.8	26.5	26.7	26.9	26.8	27.0	27.4	27.0	28.8	30.6	30.9	28.1	27.9	25.8	24.0	24.1	24.3	26.7
18	25.1	25.0	25.1	26.1	26.3	26.6	26.4	27.1	27.2	26.8	27.9	27.8	27.8	27.4	27.4	28.8	30.4	31.7	27.8	26.7	26.5	26.1	24.9	24.3	27.0
19	24.8	25.2	25.7	25.7	26.0	26.2	26.9	26.5	27.0	26.7	26.6	27.4	26.5	24.8	27.1	28.5	29.3	29.4	27.0	25.6	25.6	23.4	25.3	25.8	26.4
20	24.8	25.9	26.8	26.2	26.4	26.5	26.5	27.0	26.6	27.4	27.5	27.1	26.8	27.1	27.3	27.6	28.0	28.6	28.4	27.8	27.0	26.5	25.1	25.0	26.8
21 Q	25.2	25.7	26.0	26.3	26.6	26.4	26.1	26.2	26.6	26.6	26.7	26.7	26.6	27.4	27.1	27.7	28.8	30.1	29.5	28.1	26.9	25.0	24.2	24.6	26.7
22	25.6	25.9	26.0	25.7	24.9	24.2	25.4	25.0	25.1	25.1	25.7	26.4	26.7	27.7	27.4	28.3	29.3	30.8	28.6	26.6	23.9	22.6	24.1	25.0	26.1
23	25.2	25.6	26.3	26.4	26.5	26.1	26.1	25.9	25.8	25.9	26.2	26.3	26.6	27.2	27.9	29.2	30.5	30.7	28.0	25.7	23.4	23.6	24.3	24.6	26.4
24	25.5	26.2	26.8	26.7	26.4	26.4	26.5	26.0	26.2	23.0	24.7	26.6	27.1	27.8	26.2	28.9	30.3	30.0	28.4	27.3	26.2	24.4	23.8	24.7	26.5
25	25.3	26.0	26.6	26.9	26.6	26.7	27.9	28.3	27.4	26.8	26.7	25.8	27.1	29.5	28.7	29.1	29.4	31.9	28.4	27.9	25.8	24.3	22.6	21.8	27.0
26	22.6	24.2	24.6	24.7	26.9	27.9	27.1	27.2	26.3	26.3	26.4	26.9	27.4	27.1	27.5	30.0	29.7	25.0	23.6	23.4	24.9	24.8	24.5	24.9	26.0
27 D	26.1	26.8	27.5	27.3	29.3	39.0	30.4	29.5	27.6	27.0	30.2	29.0	19.0	24.9	26.4	25.3	28.5	30.2	26.7	23.3	24.9	24.9	24.3	24.8	27.2
28	25.7	26.0	26.2	27.5	28.6	27.9	28.7	31.8	25.3	24.4	25.9	26.3	26.3	24.5	26.2	27.7	28.9	29.3	30.2	26.1	22.6	21.7	22.8	23.0	26.4
29	24.9	25.1	26.3	27.0	27.3	27.6	28.6	34.1	28.1	26.5	24.0	23.4	26.3	19.7	25.2	27.9	27.8	29.9	30.7	28.7	26.5	24.3	23.5	23.3	26.5
30 D	24.9	28.2	27.7	28.7	28.4	27.8	26.6	26.9	26.5	26.2	25.6	26.0	26.8	26.6	26.3	24.8	20.3	22.7	25.1	27.4	26.6	25.5	25.4	24.8	26.1
MEAN	24.9	25.5	26.2	26.5	26.8	27.2	27.8	27.7	26.7	26.1	26.3	26.7	26.5	26.5	26.9	27.7	29.1	29.9	28.2	26.7	25.4	24.5	24.2	24.4	26.6

VERTICAL INTENSITY

MEAN VALUES FOR PERIODS OF SIXTY MINUTES, UNIVERSAL TIME

TABLE 33 VICTORIA

Z = 53,000 GAMMA +

NOVEMBER 1969

HOUR =	00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23	MEAN	
	TO 01	TO 02	TO 03	TO 04	TO 05	TO 06	TO 07	TO 08	TO 09	TO 10	TO 11	TO 12	TO 13	TO 14	TO 15	TO 16	TO 17	TO 18	TO 19	TO 20	TO 21	TO 22	TO 23	TO 24		
DAY																										
1 Q	126	126	128	128	125	125	123	124	124	124	125	124	124	125	125	127	128	126	121	118	114	116	119	123	124	
2	129	128	128	128	128	126	125	125	124	120	119	120	122	125	124	122	119	121	119	118	120	121	122	124	123	
3 D	136	139	138	134	136	134	138	137	125	118	126	127	127	128	124	124	128	133	129	131	129	130	130	132	131	
4	131	132	132	132	135	135	132	130	127	120	110	110	120	124	125	132	131	130	126	126	126	126	128	130	127	
5	131	132	133	134	134	134	132	129	127	126	126	126	125	125	125	123	122	122	116	115	116	117	118	120	125	
6 Q	122	125	124	125	124	123	122	122	121	120	121	120	121	121	122	124	125	122	116	115	113	113	116	118	121	
7	120	120	120	123	124	125	125	127	116	114	116	111	105	110	122	128	128	126	124	124	126	127	131	130	122	
8	132	132	131	130	129	129	125	119	121	119	116	118	121	125	125	119	122	122	116	107	117	122	127	136	123	
9 D	137	135	133	132	133	122	120	126	124	67	41	70	83	99	79	95	118	127	115	111	119	126	130	130	111	
10 D	127	126	131	136	142	151	133	138	137	135	128	109	89	102	124	133	131	128	122	129	139	139	139	141	130	
11	138	137	134	134	132	133	132	128	124	124	121	123	127	126	126	126	133	130	125	124	127	126	129	130	129	
12	128	130	133	131	131	132	130	130	130	127	123	127	128	128	128	133	133	129	127	128	126	126	128	128	129	
13	130	132	130	129	127	128	128	127	126	125	128	128	130	128	126	128	127	124	122	122	127	131	133	131	128	
14 Q	131	131	128	129	128	127	127	128	128	128	128	128	128	127	127	129	129	129	128	126	127	128	128	130	128	
15 Q	132	131	130	128	127	127	125	125	126	127	126	127	126	126	126	127	129	126	124	124	127	128	128	128	127	
16	131	129	128	128	125	125	124	123	123	123	122	124	124	125	126	126	128	128	124	119	122	125	127	125	125	
17	127	129	127	126	125	125	123	124	123	123	124	124	124	125	124	127	129	127	125	122	119	119	116	120	124	
18	123	126	126	125	123	123	122	122	121	123	122	122	121	121	121	125	123	123	123	119	116	115	116	119	122	
19	124	124	125	125	124	125	125	126	124	124	123	123	121	117	117	119	119	118	113	110	109	111	117	122	120	
20	123	131	133	133	131	129	127	127	127	124	123	123	124	124	124	124	122	116	112	112	112	115	118	123		
21 Q	119	121	122	123	122	123	122	123	121	123	120	121	120	119	120	121	123	121	122	120	120	117	120	119	121	
22	121	122	122	124	125	127	128	129	125	125	122	122	121	119	117	117	119	121	117	113	113	119	120	118	121	
23	122	122	123	123	121	123	123	123	122	121	120	120	120	119	119	123	126	127	122	118	118	122	125	123	122	
24	125	125	125	124	124	123	123	124	122	116	110	116	117	119	119	120	122	122	122	123	123	124	124	122	121	
25	122	125	125	124	124	124	124	125	124	125	124	120	113	117	119	123	121	120	115	114	116	117	118	122	121	
26	126	132	130	134	135	137	134	133	131	130	128	128	126	125	125	129	128	126	115	106	108	113	118	121	126	
27 D	122	123	124	122	125	132	127	114	94	68	63	94	84	68	83	89	108	109	106	106	112	117	122	125	106	
28	133	136	135	134	133	133	131	129	124	116	122	124	123	121	121	125	128	124	121	113	106	116	123	126	125	
29	131	133	132	130	128	127	126	122	123	124	123	122	122	109	113	121	124	120	121	127	128	129	135	134	125	
30 D	142	148	147	145	143	139	122	119	111	113	126	132	131	133	131	130	122	116	115	119	123	127	130	133	129	
MEAN	128	129	129	129	129	129	127	126	123	119	118	119	119	119	120	123	125	124	120	119	120	122	124	126	124	

RECORD OF OBSERVATIONS AT VICTORIA MAGNETIC OBSERVATORY 1969

HORIZONTAL INTENSITY

MEAN VALUES FOR PERIODS OF SIXTY MINUTES, UNIVERSAL TIME

TABLE 34 VICTORIA		H = 18,500 GAMMA +																				DECEMBER		1969		
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	422	423	430	431	431	431	427	428	432	431	429	427	437	436	434	434	433	430	420	408	398	401	410	422	425	
2	431	432	434	432	428	425	427	429	438	434	435	434	432	436	441	430	435	436	427	413	406	409	416	424	429	
3	430	433	432	432	428	425	428	431	435	435	435	432	434	436	434	437	436	437	426	412	407	410	415	425	429	
4	447	442	442	445	450	450	446	446	442	443	439	445	441	433	441	451	441	435	428	423	424	430	430	436	440	
5 D	442	440	440	440	436	427	440	439	439	438	450	427	448	448	452	447	442	436	437	423	407	403	418	421	435	
6 D	420	423	405	417	424	399	420	424	425	427	429	429	434	429	420	437	440	435	423	413	407	415	420	426	423	
7	436	436	438	437	435	433	428	432	433	434	439	439	440	442	440	440	441	440	435	425	422	419	425	432	434	
8	440	441	437	439	436	434	434	434	435	440	439	442	440	441	442	439	438	441	433	426	419	426	431	428	436	
9 D	430	435	431	441	439	442	438	439	439	443	440	443	438	441	439	438	437	439	434	422	417	419	423	431	435	
10	435	440	437	436	435	433	430	432	433	436	436	440	436	439	438	442	440	440	431	421	404	400	402	409	430	
11	413	431	437	433	432	432	437	442	434	434	435	438	445	446	444	442	439	429	420	418	414	421	427	437	433	
12	444	441	437	427	432	430	426	429	431	433	435	435	436	441	440	440	439	434	427	414	412	420	428	439	432	
13 Q	448	449	446	443	445	440	440	440	439	441	443	444	446	447	445	448	443	434	425	416	417	425	435	442	439	
14	446	448	450	448	447	448	444	443	443	440	441	443	441	443	440	441	440	427	417	410	411	420	427	435	437	
15	445	447	447	448	447	447	446	442	444	441	449	446	447	448	446	446	443	431	421	410	410	420	429	432	439	
16 D	430	421	436	438	437	437	429	433	428	431	431	431	435	440	441	432	431	429	414	412	409	414	417	429	429	
17	434	426	432	440	440	442	441	441	438	438	434	434	438	438	437	442	439	441	429	417	409	418	422	429	433	
18	431	436	437	440	441	442	441	443	440	442	439	439	440	440	441	442	441	437	428	419	418	424	430	435	436	
19	444	447	443	442	440	440	439	440	440	441	439	446	444	444	444	441	442	439	429	432	430	438	443	444	440	
20 Q	452	451	451	454	449	448	447	447	446	448	448	447	446	448	445	449	446	446	445	445	444	437	430	428	443	444
21 Q	452	449	445	446	445	445	447	448	445	446	445	445	447	447	446	445	445	444	437	430	428	428	433	436	443	
22	450	451	450	451	448	449	441	431	430	437	439	440	440	453	451	451	456	450	441	436	430	428	431	435	442	
23 D	442	448	446	443	433	432	432	428	432	437	429	434	436	436	423	440	440	433	422	427	421	423	419	420	432	
24	420	413	429	436	437	437	435	433	434	436	438	438	443	439	436	437	434	436	428	418	417	411	420	428	431	
25	434	438	435	435	430	438	428	429	427	427	432	437	438	433	436	429	431	427	421	415	420	424	425	429	430	
26	434	437	438	435	435	432	433	441	433	434	437	442	445	448	442	448	436	446	432	426	415	410	413	415	427	434
27	427	429	422	428	438	438	435	432	434	431	439	438	439	440	439	438	432	426	415	410	413	415	417	430	429	
28	439	439	440	440	437	438	439	440	438	441	441	441	441	441	441	440	442	446	435	430	426	421	424	429	434	437
29	430	438	440	441	442	439	438	438	443	440	439	439	438	442	446	447	443	439	431	425	422	424	427	433	437	
30 Q	443	445	444	441	442	440	442	445	442	443	445	444	444	444	448	449	451	443	432	424	426	427	431	437	441	
31 Q	450	447	447	445	441	444	443	442	440	440	445	444	444	444	444	449	449	441	436	431	423	420	427	440	441	
MEAN	437	438	438	439	438	437	436	437	437	437	439	439	440	441	440	442	440	437	428	420	416	420	425	431	435	

MEAN VALUES OF MAGNETIC ELEMENTS
 MONTHLY INTENSITY (Gauss) (CALE DAYS)

DECLINATION

MEAN VALUES FOR PERIODS OF SIXTY MINUTES, UNIVERSAL TIME

TABLE 35 VICTORIA

D = 22 DEG 00.0 MIN EAST +

DECEMBER 1969

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	25.8	26.1	26.5	26.4	26.9	27.0	26.6	26.6	26.4	26.6	26.5	24.3	24.2	26.0	26.9	27.4	27.9	29.3	30.5	29.8	28.1	25.8	24.8	24.5	26.7	
2	24.9	25.4	25.8	26.1	26.7	27.0	26.7	26.7	25.1	25.8	25.8	25.9	25.7	26.5	26.9	26.9	29.0	30.1	29.1	28.6	25.9	23.8	23.4	23.9	26.3	
3	24.7	25.5	26.1	26.3	26.4	26.7	26.4	26.7	26.1	26.1	26.1	26.1	26.0	26.4	26.9	27.9	29.8	30.6	29.7	27.9	26.3	23.9	23.0	22.2	26.4	
4	24.4	25.1	25.5	26.2	25.7	25.2	25.9	26.3	26.0	26.4	25.5	24.8	26.1	26.2	26.2	29.5	28.7	28.8	28.4	27.0	25.7	25.2	24.2	24.3	26.1	
5 D	25.3	25.7	26.1	26.5	26.7	27.0	28.4	26.7	25.0	25.5	25.1	25.8	26.7	28.5	25.6	28.2	28.9	19.7	21.1	22.9	23.0	23.1	24.6	23.1	25.4	
6 D	24.8	25.5	28.9	27.0	29.1	33.5	30.1	28.9	26.6	23.7	24.1	24.6	27.3	25.7	19.7	24.0	28.8	29.8	28.6	28.4	26.2	25.5	24.8	25.4	26.7	
7	25.7	26.3	26.8	26.7	26.5	26.3	27.1	26.4	26.1	24.1	23.6	26.4	26.9	27.5	26.9	27.4	27.1	28.3	28.0	27.4	26.4	25.5	25.6	25.6	26.4	
8	25.4	26.1	27.1	26.8	26.5	27.4	26.3	26.1	26.1	25.9	26.1	26.4	26.5	26.9	26.7	26.8	26.7	28.6	28.7	28.3	26.9	25.9	25.2	25.2	26.6	
9 D	25.3	25.8	27.2	28.4	26.1	26.3	26.7	26.4	26.4	25.9	26.4	26.5	26.8	26.9	27.6	28.8	28.4	27.5	27.5	27.1	26.1	25.3	24.4	24.3	26.6	
10	24.7	26.0	26.4	26.8	26.7	26.7	26.4	26.4	26.3	26.0	25.9	26.1	26.1	26.8	26.8	27.7	28.5	27.6	26.6	27.2	25.3	24.0	23.2	22.2	26.1	
11	23.4	24.6	25.8	27.2	26.9	27.5	29.1	28.5	27.0	25.4	26.9	27.1	27.1	28.8	30.4	29.7	31.1	31.3	30.5	28.2	25.7	23.7	23.0	22.7	27.1	
12	24.1	25.3	25.1	26.5	26.7	27.2	27.0	27.3	26.2	25.8	26.1	26.8	25.2	26.3	27.1	27.4	28.8	30.1	29.6	27.4	25.1	23.7	23.4	23.7	26.3	
13 Q	24.0	25.1	25.9	26.4	26.7	27.2	27.0	26.1	26.0	25.5	25.5	26.2	26.4	26.8	27.1	27.0	28.6	29.9	29.9	28.5	26.3	24.8	23.6	23.3	26.4	
14	24.7	24.9	25.8	26.4	26.6	26.5	26.5	26.6	26.1	26.3	26.2	26.2	26.4	26.9	27.6	26.9	29.9	30.7	29.4	28.3	25.8	23.9	22.8	22.5	26.4	
15	24.1	24.8	25.5	26.5	26.6	26.8	26.2	26.5	26.2	25.5	25.3	26.6	27.0	26.3	27.0	27.4	29.7	32.0	29.0	27.8	25.5	24.1	23.1	23.1	26.4	
16 D	24.0	24.5	25.0	26.7	27.1	27.1	27.0	31.4	25.3	26.9	26.2	26.2	25.7	25.8	26.9	26.5	26.8	30.7	30.0	28.2	25.5	23.8	23.6	23.9	26.4	
17	24.3	24.7	25.5	26.1	26.7	26.9	26.8	26.7	26.6	26.8	27.2	26.5	26.8	26.8	26.5	27.2	27.7	29.3	28.8	28.2	26.8	25.9	25.1	24.7	26.6	
18	24.7	25.3	25.8	26.2	26.2	26.4	26.3	26.2	26.2	26.5	26.0	26.3	26.3	26.6	26.1	26.9	27.2	28.7	28.8	27.8	25.5	24.6	23.7	23.7	26.2	
19	24.6	25.5	25.7	26.2	26.2	26.6	26.0	26.1	26.1	26.7	26.5	26.9	27.4	26.8	26.8	27.5	28.0	29.2	28.6	27.8	26.4	25.4	24.5	23.6	26.5	
20 Q	24.1	24.8	25.3	26.0	25.9	26.3	26.2	26.3	26.1	26.1	26.2	26.7	27.0	26.4	26.4	26.8	27.3	28.9	27.9	26.9	25.5	24.5	24.5	23.5	26.1	
21 Q	23.9	24.5	25.3	26.0	26.4	25.9	25.6	26.0	26.0	26.0	26.2	26.2	26.2	26.4	26.4	26.8	27.2	28.6	28.7	28.1	26.4	26.0	25.0	24.7	26.2	
22	24.3	25.6	25.7	26.0	26.0	25.9	24.2	27.6	27.4	25.8	26.0	27.1	26.5	26.8	28.2	29.1	28.6	28.8	27.0	26.5	26.2	25.5	25.3	25.6	26.5	
23 D	25.6	26.1	26.7	26.6	27.0	26.2	26.8	26.1	26.2	25.8	29.6	28.1	28.6	26.8	21.8	26.6	28.8	26.9	22.1	24.1	23.7	24.1	25.6	26.0	26.1	
24	25.5	27.0	28.2	27.5	26.6	26.2	25.7	26.4	26.1	26.3	26.3	25.0	27.7	27.5	28.7	29.0	28.3	28.6	27.5	26.5	24.3	24.1	23.9	24.9	26.6	
25	26.0	26.6	26.5	27.0	29.5	30.1	27.4	26.8	23.7	27.5	25.9	26.9	27.5	26.5	25.2	27.2	27.4	27.3	25.9	24.7	23.8	23.8	24.0	24.6	26.3	
26	26.0	26.3	26.4	26.3	26.4	26.7	26.9	26.5	26.4	26.1	25.4	25.0	27.7	27.9	28.0	28.3	26.1	26.2	28.5	26.5	23.3	23.7	24.3	24.8	26.2	
27	27.6	27.6	26.6	28.6	27.3	28.5	27.4	27.0	25.7	26.2	21.0	26.7	27.4	28.0	27.5	27.7	28.9	30.2	30.0	29.1	27.4	26.6	25.6	25.8	27.3	
28	26.2	26.0	25.9	26.3	26.6	26.7	26.3	26.4	26.1	26.2	25.3	25.8	26.6	26.9	26.7	27.5	28.5	29.0	28.1	27.5	26.0	25.1	24.8	24.6	26.5	
29	25.0	25.9	26.3	26.7	26.7	26.6	26.4	26.4	25.7	25.9	26.2	26.6	26.4	26.8	26.7	26.8	27.5	29.3	29.3	29.3	27.7	26.8	26.1	25.3	24.9	26.6
30 Q	24.9	25.5	25.9	26.1	26.8	26.0	26.1	26.4	26.3	26.3	25.6	26.6	26.1	26.4	26.0	26.4	28.0	29.8	30.3	29.1	27.4	26.3	25.0	24.3	26.6	
31 Q	25.1	25.3	26.1	26.2	26.2	26.3	26.1	26.1	26.1	26.0	26.0	26.7	25.7	26.1	26.0	26.2	28.1	28.9	28.4	28.7	27.7	26.2	24.2	24.4	26.4	
MEAN	24.9	25.6	26.2	26.6	26.7	27.0	26.7	26.8	26.1	26.0	25.8	26.2	26.6	26.8	26.6	27.4	28.3	28.9	28.3	27.5	25.8	24.8	24.3	24.2	26.4	

RECORD OF OBSERVATIONS AT VICTORIA MAGNETIC OBSERVATORY 1969

VERTICAL INTENSITY

MEAN VALUES FOR PERIODS OF SIXTY MINUTES, UNIVERSAL TIME

TABLE 36 VICTORIA				Z = 53,000 GAMMA +																	DECEMBER				1969	
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	137	137	135	135	132	131	130	129	130	127	129	125	119	123	124	126	126	124	124	122	122	127	129	130	128	
2	134	133	132	132	130	130	129	128	123	126	126	128	127	125	123	120	120	119	119	126	122	122	121	126	126	
3	129	131	131	129	128	128	127	125	125	125	125	126	125	126	127	126	130	128	122	121	119	119	123	126	126	
4	128	127	130	132	131	132	129	128	127	126	124	121	119	120	113	120	119	117	112	112	112	115	118	121	122	
5 D	127	127	127	126	127	125	127	122	123	122	113	96	91	96	100	107	117	108	102	104	110	116	126	127	115	
6 D	129	136	139	143	141	135	144	139	133	123	118	122	123	124	108	108	119	122	123	123	124	125	127	127	127	
7	129	131	129	128	128	128	128	126	127	123	118	119	122	125	124	126	129	129	128	126	126	125	123	123	126	
8	129	130	128	130	128	130	129	129	127	128	125	125	125	125	126	127	129	128	127	123	122	123	123	119	126	
9 D	125	126	127	132	128	127	126	127	126	127	124	123	119	120	118	121	125	127	125	124	123	120	118	121	124	
10	126	125	125	125	124	126	126	127	125	126	124	125	123	123	124	126	127	126	126	122	122	121	123	127	125	
11	133	135	134	133	131	134	134	119	127	131	131	132	129	125	120	124	125	121	114	110	109	114	118	124	125	
12	125	123	123	123	128	129	128	128	127	128	125	125	122	121	121	123	125	122	119	118	117	120	121	123	124	
13 Q	127	126	123	122	123	121	122	122	123	123	124	124	123	122	121	122	122	122	120	118	118	123	125	124	123	
14	126	129	129	128	126	124	124	123	123	123	123	123	124	123	122	124	123	122	117	117	121	125	124	125	124	
15	128	126	126	125	125	124	122	121	120	120	113	117	120	121	120	123	124	125	123	120	121	124	127	125	123	
16 D	129	128	133	132	129	128	126	125	122	123	126	126	124	124	123	120	120	118	115	114	108	112	117	123	123	
17	126	130	131	131	129	129	127	126	125	125	123	123	125	126	126	127	128	125	119	116	119	122	123	125	125	
18	127	130	129	128	129	127	126	124	122	123	122	123	124	124	124	123	122	119	118	113	114	116	118	123		
19	124	125	125	124	125	124	122	123	123	122	122	123	122	122	123	124	124	123	119	120	124	124	122	117	123	
20 Q	121	121	122	121	121	123	121	122	121	120	120	120	119	120	120	120	122	121	117	122	122	122	117	116	120	
21 Q	122	124	124	126	126	124	125	123	122	121	120	120	120	120	120	121	122	122	122	123	124	123	121	120	122	
22	123	123	123	124	122	125	123	122	129	128	124	124	121	116	118	117	119	115	115	116	117	117	113	114	120	
23 D	119	119	118	120	119	120	120	121	119	108	100	101	108	111	100	110	115	114	113	116	117	121	120	122	115	
24	125	127	133	130	126	124	124	124	122	122	170	117	100	105	112	117	120	118	117	115	116	114	115	119	119	
25	122	123	122	122	123	125	122	127	121	120	124	125	123	117	114	121	123	123	121	122	124	124	125	124	122	
26	127	125	123	123	123	123	123	121	119	121	120	117	119	120	121	122	123	115	111	115	116	123	127	127	121	
27	129	128	128	131	128	128	126	125	123	116	110	100	111	118	121	123	126	128	126	127	126	124	122	126	123	
28	125	126	124	124	122	124	123	124	123	123	123	121	121	121	123	123	124	121	123	123	123	122	121	122	123	
29	126	129	127	125	124	123	123	122	121	117	115	117	121	123	122	123	123	121	120	120	118	118	117	119	121	
30 Q	126	124	123	123	123	122	123	124	122	124	124	122	122	122	121	123	126	125	123	125	124	123	122	121	123	
31 Q	124	122	121	121	120	120	120	118	119	119	117	116	115	118	119	121	121	120	122	123	119	118	117	119	120	
MEAN	127	127	127	127	126	126	126	125	124	123	121	120	120	120	119	121	123	122	119	119	119	121	121	123	123	

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

TABLE 37 VICTORIA

U.T.	H = 18,500 GAMMA +												1969			
	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	YEAR	SUMMER	EQUINOX	WINTER
0- 1	<u>412</u>	406	404	418	433	428	434	437	436	435	437	437	426	433	423	423
1- 2	<u>415</u>	409	410	419	431	432	436	437	433	435	440	438	428	434	424	426
2- 3	<u>418</u>	411	414	420	431	431	434	434	433	435	441	438	428	433	426	427
3- 4	<u>417</u>	411	410	422	426	430	433	434	432	435	441	439	427	431	425	427
4- 5	<u>418</u>	411	408	421	422	427	432	434	434	436	439	438	427	429	425	427
5- 6	<u>417</u>	410	410	423	423	430	434	435	435	435	438	437	427	431	426	426
6- 7	<u>417</u>	412	411	422	421	429	435	438	438	435	437	436	428	431	427	426
7- 8	<u>417</u>	414	408	422	424	432	436	439	436	436	437	437	428	433	426	426
8- 9	<u>415</u>	414	405	423	426	433	436	440	432	434	438	437	428	434	424	426
9-10	<u>417</u>	415	407	425	427	432	438	441	434	438	440	437	429	435	426	427
10-11	<u>417</u>	414	407	426	428	433	439	442	438	439	443	439	430	436	428	428
11-12	<u>418</u>	416	412	427	427	432	439	441	438	441	444	439	431	435	430	429
12-13	<u>419</u>	414	419	427	427	432	443	442	439	442	445	440	432	436	432	430
13-14	<u>421</u>	417	421	425	430	435	446	444	440	444	445	441	434	439	433	431
14-15	<u>423</u>	417	418	426	427	434	446	443	435	441	443	440	433	438	430	431
15-16	<u>422</u>	416	417	422	423	430	441	436	428	436	441	442	430	433	426	430
16-17	<u>419</u>	410	411	412	414	422	433	422	418	428	439	440	422	423	417	427
17-18	<u>412</u>	401	400	398	408	414	422	411	406	420	431	437	413	414	406	420
18-19	<u>400</u>	382	389	391	404	414	414	405	401	413	422	428	405	409	399	408
19-20	<u>393</u>	376	383	387	403	415	412	407	403	412	415	420	402	409	396	401
20-21	<u>393</u>	380	381	390	403	414	415	411	411	414	413	416	403	411	399	401
21-22	<u>398</u>	380	381	396	409	415	419	416	418	419	417	420	407	415	404	404
22-23	<u>404</u>	387	389	401	417	419	423	425	427	425	425	425	414	421	411	410
23-24	<u>409</u>	394	398	411	423	423	427	433	431	431	431	431	420	427	418	416
MEAN	<u>413</u>	405	405	415	421	427	432	431	428	432	435	435	423	428	420	422

MEAN VALUES OF MAGNETIC ELEMENTS

DECLINATION (MINUTES) (ALL DAYS)

TABLE 38 VICTORIA

D = 22 DEG 00.0 MIN EAST +

1969

U.T.	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	YEAR	SUMMER	EQUINOX	WINTER
0- 1	<u>28.0</u>	25.9	24.4	22.7	22.8	22.9	23.4	23.9	24.4	24.9	24.9	24.9	24.4	23.3	24.1	25.9
1- 2	<u>28.4</u>	26.5	25.0	23.9	24.1	24.2	24.7	24.7	25.2	25.5	25.5	25.6	25.3	24.4	24.9	26.5
2- 3	<u>28.7</u>	27.0	25.7	25.4	25.5	25.9	25.7	25.4	25.9	26.0	26.2	26.2	26.2	25.6	25.8	27.0
3- 4	<u>29.0</u>	28.0	26.7	26.5	27.0	26.6	26.7	25.6	26.6	26.6	26.5	26.6	26.9	26.5	26.6	27.5
4- 5	<u>29.4</u>	28.2	27.1	26.7	27.8	26.8	26.6	26.1	26.3	26.4	26.8	26.7	27.1	26.8	26.6	27.8
5- 6	<u>29.2</u>	28.6	27.9	27.2	28.1	27.1	26.7	26.3	26.3	27.2	27.2	27.0	27.4	27.1	27.1	28.0
6- 7	<u>29.0</u>	29.0	28.0	27.5	27.8	27.0	26.4	26.0	26.2	27.1	27.8	26.7	27.4	26.8	27.2	28.1
7- 8	<u>28.8</u>	28.6	29.4	28.5	27.4	26.9	26.6	26.3	26.1	27.1	27.7	26.8	27.5	26.8	27.8	28.0
8- 9	<u>29.2</u>	28.5	30.1	28.3	28.5	27.2	27.0	26.6	26.2	27.5	26.7	26.1	27.7	27.3	28.0	27.6
9-10	<u>28.8</u>	29.0	30.2	28.5	28.9	27.0	27.1	26.9	27.8	27.5	26.1	26.0	27.8	27.4	28.5	27.5
10-11	<u>29.1</u>	29.1	30.1	28.6	28.3	26.9	26.9	26.9	28.5	27.2	26.3	25.8	27.8	27.3	28.6	27.6
11-12	<u>29.2</u>	29.5	29.3	28.9	28.4	27.1	27.6	27.6	28.1	27.8	26.7	26.2	28.0	27.7	28.5	27.9
12-13	<u>29.5</u>	29.2	29.0	29.3	28.6	28.1	28.6	28.5	28.8	27.1	26.5	26.6	28.3	28.4	28.6	27.9
13-14	<u>29.3</u>	29.3	29.4	30.1	30.5	30.2	30.2	29.9	29.2	27.7	26.5	26.8	29.1	30.2	29.1	28.0
14-15	<u>30.0</u>	29.4	30.0	31.6	32.0	32.5	31.9	31.7	30.0	27.8	26.9	26.6	30.0	32.0	29.8	28.2
15-16	<u>30.4</u>	30.1	31.4	33.2	33.4	33.9	33.7	33.6	31.5	28.7	27.7	27.4	31.2	33.6	31.2	28.9
16-17	<u>31.1</u>	31.2	32.6	34.4	33.2	34.4	34.4	34.2	31.9	29.6	29.1	28.3	32.0	34.1	32.1	29.9
17-18	<u>31.3</u>	32.0	32.8	33.8	32.8	32.9	33.2	32.3	30.5	29.9	29.9	28.9	31.7	32.8	31.8	30.5
18-19	<u>31.0</u>	31.2	31.7	31.2	29.9	29.3	29.7	28.3	27.6	28.5	28.2	28.3	29.6	29.3	29.7	29.6
19-20	<u>29.6</u>	28.7	29.9	28.4	27.1	26.0	25.9	24.3	24.7	26.3	26.7	27.5	27.1	25.8	27.3	28.1
20-21	<u>28.4</u>	27.6	27.7	25.9	24.8	23.8	23.3	22.2	23.0	24.4	25.4	25.8	25.2	23.5	25.3	26.8
21-22	<u>27.3</u>	26.1	25.8	24.1	23.4	22.2	21.9	21.4	22.2	23.6	24.5	24.8	23.9	22.2	23.9	25.7
22-23	<u>26.8</u>	25.3	24.3	23.1	22.0	21.4	21.5	21.7	22.6	23.8	24.2	24.3	23.4	21.6	23.4	25.2
23-24	<u>27.0</u>	25.1	23.7	22.3	21.9	21.5	22.1	22.7	23.7	24.4	24.4	24.2	23.6	22.0	23.5	25.2
MEAN	<u>29.1</u>	28.5	28.4	27.9	27.7	27.2	27.2	26.8	26.8	26.8	26.6	26.4	27.4	27.2	27.5	27.6

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

TABLE 39 VICTORIA

U.T.	Z = 53,000 GAMMA +												1969			
	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	YEAR	SUMMER	EQUINOX	WINTER
0- 1	<u>135</u>	139	147	142	153	138	132	131	134	131	128	127	136	139	139	132
1- 2	<u>136</u>	141	150	147	157	144	139	132	134	132	129	127	139	143	141	133
2- 3	<u>136</u>	142	154	148	158	147	138	132	137	132	129	127	140	144	143	134
3- 4	<u>136</u>	142	151	146	156	144	136	132	135	133	129	127	139	142	141	134
4- 5	<u>137</u>	142	148	144	153	140	134	130	132	132	129	126	137	139	139	134
5- 6	<u>136</u>	142	148	143	148	137	131	129	131	132	129	126	136	136	139	133
6- 7	<u>135</u>	141	144	140	141	135	130	127	128	131	127	126	134	133	136	132
7- 8	<u>135</u>	139	140	138	137	134	124	126	124	129	126	125	131	130	133	131
8- 9	<u>133</u>	134	134	133	137	130	123	124	117	128	123	124	128	129	128	129
9-10	<u>131</u>	132	125	133	130	129	124	122	116	126	119	123	126	126	125	126
10-11	<u>129</u>	128	118	129	124	129	123	119	116	121	118	121	123	124	121	124
11-12	<u>128</u>	126	120	128	125	130	124	118	113	120	119	120	123	124	120	123
12-13	<u>126</u>	121	124	125	119	129	126	120	111	117	119	120	121	124	119	122
13-14	<u>126</u>	120	129	125	123	127	127	122	114	119	119	120	123	125	122	121
14-15	<u>127</u>	125	130	127	121	128	128	123	115	120	120	119	124	125	123	123
15-16	<u>130</u>	127	133	130	123	126	127	123	115	123	123	121	125	125	125	125
16-17	<u>132</u>	127	133	128	122	121	122	121	115	126	125	123	125	122	126	127
17-18	<u>130</u>	128	130	123	120	113	116	112	112	126	124	122	121	115	123	126
18-19	<u>129</u>	125	126	119	116	106	109	105	110	121	120	119	117	109	119	123
19-20	<u>129</u>	126	123	119	117	104	107	103	111	117	119	119	116	108	118	123
20-21	<u>130</u>	127	123	121	120	107	108	106	116	117	120	119	118	110	119	124
21-22	<u>132</u>	128	126	126	124	112	111	110	121	121	122	121	121	114	124	126
22-23	<u>133</u>	131	133	130	132	119	117	117	126	124	124	121	126	121	128	127
23-24	<u>134</u>	135	141	134	142	129	124	124	129	127	126	123	131	130	133	130
MEAN	<u>132</u>	132	135	132	133	127	124	121	121	125	124	123	127	126	128	128

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

TABLE 40	VICTORIA												H = 18,500 GAMMA +				1969
	U.T.	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	YEAR	SUMMER	EQUINOX	WINTER
0- 1	417	416	408	417	434	430	433	436	437	438	443	449	430	433	425	431	
1- 2	420	420	412	421	432	432	435	439	440	441	444	448	432	435	429	433	
2- 3	421	419	417	424	432	431	436	439	441	443	444	447	433	435	431	433	
3- 4	421	420	417	427	431	433	436	440	439	443	444	446	433	435	432	433	
4- 5	422	421	414	428	431	431	436	439	438	442	444	444	433	434	431	433	
5- 6	420	420	416	428	432	431	438	440	440	442	444	443	433	435	432	432	
6- 7	421	420	417	427	435	434	439	440	444	444	443	444	434	437	433	432	
7- 8	420	421	419	428	436	434	440	441	441	442	444	444	434	438	433	432	
8- 9	420	420	422	430	437	436	439	443	442	443	446	442	435	439	434	432	
9-10	421	422	424	433	440	436	441	443	443	444	447	444	436	440	436	434	
10-11	422	422	423	434	438	436	441	443	444	446	447	445	437	440	437	434	
11-12	422	422	425	434	438	435	443	442	445	448	448	445	437	440	438	434	
12-13	424	424	426	436	439	438	446	444	445	448	448	445	439	442	439	435	
13-14	424	426	426	434	443	442	449	447	446	447	448	446	440	445	438	436	
14-15	424	425	425	436	442	441	450	447	445	446	447	446	439	445	438	436	
15-16	423	424	425	434	439	437	445	440	438	442	444	448	437	440	435	435	
16-17	419	419	420	424	431	427	438	427	424	435	439	447	429	431	426	431	
17-18	410	411	413	413	426	418	429	414	411	424	433	441	420	422	415	424	
18-19	401	402	406	406	422	417	422	405	403	416	422	432	413	417	408	414	
19-20	395	396	395	406	422	417	417	400	405	415	419	425	409	414	405	409	
20-21	396	393	393	404	422	417	417	401	415	419	421	424	410	414	408	409	
21-22	401	395	393	406	423	418	421	408	423	427	426	427	414	418	412	412	
22-23	410	403	397	408	429	423	427	421	432	432	433	433	421	425	417	420	
23-24	415	410	405	414	430	431	433	432	438	437	440	439	427	432	424	426	
MEAN	416	416	414	423	433	430	435	432	434	438	440	441	429	433	427	428	

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

TABLE 41 VICTORIA		D = 22 DEG 00.0 MIN EAST +													1969	
U.T.	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	YEAR	SUMMER	EQUINOX	WINTER
0- 1	28.3	26.7	25.1	23.6	23.4	23.7	23.8	24.1	24.9	24.7	24.7	24.4	24.8	23.7	24.6	26.0
1- 2	28.7	27.0	25.7	25.1	24.5	24.8	24.9	25.4	25.3	25.4	25.3	25.0	25.6	24.9	25.4	26.5
2- 3	29.2	27.2	26.2	26.4	25.4	26.2	25.6	26.0	25.4	25.9	26.0	25.7	26.3	25.8	26.0	27.0
3- 4	29.5	27.6	26.6	26.7	25.8	26.9	25.9	25.6	25.5	26.2	26.4	26.1	26.6	26.0	26.2	27.4
4- 5	29.6	27.8	26.9	27.0	26.3	26.7	26.2	25.6	25.7	26.3	26.4	26.4	26.7	26.2	26.5	27.6
5- 6	29.5	27.9	27.2	27.2	26.4	26.5	26.6	25.6	25.6	26.3	26.4	26.3	26.8	26.3	26.6	27.5
6- 7	29.3	27.9	27.2	27.5	26.7	26.5	26.5	26.1	25.4	26.6	26.3	26.2	26.8	26.4	26.7	27.4
7- 8	29.2	27.8	27.4	27.2	27.0	26.5	26.8	26.1	26.3	26.6	26.3	26.2	26.9	26.6	26.9	27.3
8- 9	29.3	27.8	27.9	27.9	26.9	26.6	26.5	26.2	26.1	26.7	26.3	26.1	27.0	26.6	27.1	27.4
9-10	29.0	28.1	28.4	27.9	27.9	26.7	26.6	26.5	25.8	26.4	26.3	26.0	27.1	26.9	27.1	27.3
10-11	29.2	28.3	28.0	27.7	28.0	26.9	27.1	27.0	27.4	26.6	26.4	25.9	27.4	27.2	27.4	27.4
11-12	29.7	28.5	28.0	28.4	27.9	27.5	27.3	27.4	27.8	26.8	26.5	26.5	27.7	27.5	27.7	27.8
12-13	29.5	28.5	28.2	28.1	29.0	29.1	28.3	28.2	28.4	27.5	26.6	26.3	28.1	28.7	28.0	27.7
13-14	30.1	28.6	28.3	29.2	30.6	30.4	30.1	29.0	29.0	28.0	27.2	26.4	28.9	30.0	28.6	28.1
14-15	30.4	29.1	28.9	31.1	31.9	31.7	31.9	31.6	30.7	28.3	27.4	26.4	29.9	31.8	29.7	28.3
15-16	31.1	30.4	30.4	33.2	33.3	33.6	34.0	34.1	32.7	29.6	28.7	26.6	31.5	33.7	31.5	29.2
16-17	32.4	31.5	32.1	34.8	33.5	34.6	34.6	35.6	34.3	30.5	30.3	27.8	32.7	34.6	32.9	30.5
17-18	33.1	32.0	33.1	33.9	33.0	32.3	33.1	34.6	33.2	30.9	30.8	29.2	32.4	33.2	32.7	31.3
18-19	32.8	31.2	32.5	31.7	30.6	29.2	29.5	30.6	29.7	29.2	29.4	29.0	30.5	30.0	30.8	30.6
19-20	31.3	29.9	30.7	28.7	28.0	25.9	25.9	26.6	25.7	26.7	27.9	28.3	28.0	26.6	27.9	29.3
20-21	29.9	28.1	28.4	26.1	25.7	23.7	22.7	23.5	23.1	24.4	26.0	26.7	25.7	23.9	25.5	27.7
21-22	28.3	26.6	26.2	23.8	24.0	22.1	21.0	21.7	22.4	23.5	24.8	25.6	24.2	22.2	24.0	26.3
22-23	27.8	25.5	25.0	22.4	22.6	21.3	20.5	21.4	22.5	23.5	24.3	24.5	23.4	21.5	23.3	25.5
23-24	27.8	25.4	24.1	21.4	22.3	21.3	21.0	22.5	23.6	24.2	24.2	24.0	23.5	21.8	23.3	25.3
MEAN	29.8	28.3	28.0	27.8	27.5	27.1	26.9	27.1	26.9	26.7	26.7	26.3	27.4	27.2	27.4	27.8

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

TABLE 42	VICTORIA												Z = 53,000 GAMMA +			1969
	U.T.	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	YEAR	SUMMER	
0- 1	139	134	142	133	139	132	128	130	127	128	126	124	132	132	133	131
1- 2	138	134	142	137	142	137	130	130	126	129	127	123	133	135	134	131
2- 3	138	134	141	138	143	137	130	129	125	128	126	123	133	135	133	130
3- 4	137	134	140	137	141	133	128	126	125	129	127	123	132	132	133	130
4- 5	137	134	139	136	138	131	127	126	124	127	125	123	130	131	132	130
5- 6	136	134	139	134	137	129	126	125	124	128	125	122	130	129	131	129
6- 7	135	134	139	135	136	130	125	126	123	127	124	122	130	129	131	129
7- 8	136	134	138	133	136	129	125	126	123	127	124	122	129	129	130	129
8- 9	136	134	138	133	133	129	125	125	123	127	124	121	129	128	130	129
9-10	134	134	136	134	129	128	125	124	120	127	124	121	128	127	129	128
10-11	134	134	135	133	130	128	124	124	121	127	124	121	128	127	129	128
11-12	135	134	135	131	130	129	126	123	122	126	124	120	128	127	129	128
12-13	135	133	135	132	133	131	126	123	122	125	124	120	128	128	129	128
13-14	135	132	135	130	134	131	127	124	123	125	124	120	128	129	128	128
14-15	135	132	135	130	134	131	127	125	125	126	124	120	129	129	129	128
15-16	136	135	137	132	132	129	126	126	125	127	126	121	129	128	130	130
16-17	138	136	137	131	127	122	124	124	123	129	127	123	128	124	130	131
17-18	137	135	136	123	117	114	116	117	115	127	125	122	124	116	125	130
18-19	135	132	130	118	109	107	107	110	108	122	122	121	118	108	120	128
19-20	133	130	126	118	107	103	104	105	106	116	121	122	116	105	117	127
20-21	133	128	126	117	108	104	105	103	109	115	120	121	116	105	117	126
21-22	134	126	126	117	104	105	105	105	114	119	120	122	116	105	119	126
22-23	135	127	127	119	115	113	109	112	119	121	122	120	120	112	122	126
23-24	136	130	131	122	124	123	117	119	120	124	124	120	124	121	124	128
MEAN	136	133	135	129	128	124	121	121	120	125	124	122	127	124	127	129

MEAN VALUES OF MAGNETIC ELEMENTS

HORIZONTAL INTENSITY (GAMMAS) (DISTURBED DAYS)

TABLE 43 VICTORIA

H = 18,500 GAMMA +

1969

U.T.	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	YEAR	SUMMER	EQUINOX	WINTER
0- 1	393	397	400	421	437	427	448	447	426	428	428	433	424	440	419	413
1- 2	395	394	404	425	433	439	443	449	425	422	428	433	424	441	419	413
2- 3	409	396	434	422	435	436	433	437	429	416	431	432	426	435	425	417
3- 4	410	396	395	424	417	431	428	433	420	418	431	436	420	427	414	418
4- 5	407	398	385	421	405	423	424	430	429	418	423	434	416	421	413	416
5- 6	406	397	390	432	399	426	425	434	428	420	421	427	417	421	418	413
6- 7	409	403	394	418	394	423	428	440	432	417	419	432	417	421	415	416
7- 8	408	405	370	418	392	428	426	441	428	415	418	433	415	422	408	416
8- 9	407	402	351	411	403	427	424	445	409	411	419	433	412	425	396	415
9-10	414	402	354	421	403	424	431	446	407	418	417	435	414	426	400	417
10-11	408	397	337	416	410	431	434	447	415	416	430	436	415	431	396	418
11-12	411	399	354	422	400	431	433	441	414	423	433	433	416	426	403	419
12-13	411	382	398	415	396	429	440	442	422	425	430	438	419	427	415	415
13-14	420	393	404	404	405	435	445	445	431	436	433	439	424	433	419	421
14-15	425	401	398	408	393	428	448	444	411	426	426	435	420	428	411	422
15-16	418	397	396	401	383	426	443	433	412	417	422	439	416	421	407	419
16-17	413	386	388	391	370	418	432	416	413	413	428	438	409	409	401	416
17-18	402	370	383	375	371	407	415	407	391	408	419	434	398	400	389	406
18-19	390	304	367	368	374	401	402	401	385	397	408	426	385	395	379	382
19-20	382	301	365	368	371	410	395	407	397	396	398	419	384	396	382	375
20-21	387	342	363	378	367	416	403	419	404	400	399	412	391	401	386	385
21-22	392	335	359	390	393	413	411	423	410	404	408	415	396	410	391	388
22-23	396	356	385	399	421	411	418	423	414	413	415	419	406	418	403	397
23-24	403	375	400	416	430	416	428	430	414	418	420	425	415	426	412	406
MEAN	405	380	382	407	400	423	427	433	415	416	421	431	412	421	405	409

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

TABLE 44	VICTORIA												1969			
	U.T.	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	YEAR	SUMMER	EQUINOX
							D = 22 DEG 00.0 MIN EAST +									
0- 1	27.8	24.4	22.6	22.3	21.8	22.0	22.4	22.9	22.2	25.5	25.2	25.0	23.7	22.3	23.2	25.6
1- 2	28.5	25.8	23.4	22.8	22.0	23.1	24.5	22.9	24.4	27.5	26.5	25.5	24.7	23.1	24.5	26.6
2- 3	28.2	25.9	23.7	24.2	23.7	25.1	26.2	24.1	26.9	28.0	27.0	26.8	25.8	24.8	25.7	27.0
3- 4	28.5	27.8	26.1	25.5	29.1	26.0	29.0	24.6	28.6	28.7	27.3	27.0	27.4	27.2	27.2	27.7
4- 5	28.9	28.2	25.9	26.2	29.6	28.3	29.1	27.1	26.7	27.3	27.6	27.2	27.7	28.5	26.5	28.0
5- 6	29.6	29.4	28.3	26.8	29.0	29.4	28.3	27.6	27.6	29.0	29.9	28.0	28.6	28.6	27.9	29.2
6- 7	28.9	29.3	28.3	26.7	28.4	28.8	27.3	25.8	27.3	29.0	33.0	27.8	28.4	27.6	27.8	29.8
7- 8	28.4	29.6	31.2	30.6	26.3	28.4	28.0	25.6	25.9	29.4	30.1	27.9	28.5	27.1	29.3	29.0
8- 9	30.0	30.1	33.9	27.5	29.6	27.9	29.8	26.5	22.8	30.3	27.4	25.9	28.5	28.4	28.6	28.3
9-10	28.6	32.1	34.1	28.0	31.5	27.5	28.6	28.6	29.9	29.5	24.5	25.6	29.1	29.1	30.4	27.7
10-11	30.0	32.0	35.1	28.9	29.1	26.2	27.7	27.0	33.3	27.8	26.3	26.3	29.1	27.5	31.3	28.6
11-12	27.4	32.2	30.9	30.9	30.1	25.7	27.6	28.3	28.9	28.8	27.6	26.2	28.7	27.9	29.9	28.4
12-13	27.0	30.4	28.3	32.6	27.1	26.4	28.2	29.1	30.5	24.1	25.0	27.0	28.0	27.7	28.9	27.4
13-14	28.3	28.8	30.3	30.8	30.1	30.5	31.1	30.8	30.5	26.2	25.2	26.7	29.1	30.6	29.5	27.3
14-15	30.0	28.0	29.9	31.9	32.8	33.0	32.7	32.7	29.0	25.0	25.8	24.3	29.6	32.8	29.0	27.0
15-16	30.2	25.9	32.1	32.8	31.9	34.0	35.3	34.4	29.8	24.9	25.9	26.8	30.3	33.9	29.9	27.2
16-17	30.5	26.2	32.0	34.7	29.9	35.9	35.4	34.3	30.6	26.2	26.9	28.3	30.9	33.8	30.9	28.0
17-18	30.0	30.2	31.4	32.6	31.3	33.9	33.9	31.0	29.8	27.2	29.0	26.9	30.6	32.5	30.2	29.0
18-19	29.3	30.2	31.8	28.7	29.1	30.1	30.3	25.4	26.4	26.5	27.3	25.9	28.4	28.7	28.3	28.1
19-20	27.8	22.6	30.1	24.9	26.2	25.6	26.5	22.0	24.1	26.2	24.8	26.1	25.6	25.1	26.3	25.3
20-21	27.4	24.1	29.6	23.2	23.2	24.0	23.0	20.9	24.0	25.6	24.8	24.9	24.6	22.8	25.6	25.3
21-22	27.0	23.6	27.5	23.0	22.0	22.9	21.7	20.2	22.8	25.1	24.9	24.4	23.7	21.7	24.6	25.0
22-23	26.9	23.8	25.1	23.5	20.2	21.9	21.5	21.5	22.4	25.3	24.7	24.6	23.4	21.3	24.1	25.0
23-24	26.4	25.3	24.5	22.9	20.9	21.8	22.1	22.6	23.5	25.4	25.0	24.5	23.7	21.8	24.1	25.3
MEAN	28.6	27.7	29.0	27.6	27.3	27.4	27.9	26.5	27.0	27.0	26.7	26.2	27.4	27.3	27.6	27.3

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

TABLE 45	VICTORIA												Z = 53,000 GAMMA +				1969
	U.T.	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	YEAR	SUMMER	EQUINOX	WINTER
0- 1	136	146	186	142	200	142	143	125	152	139	133	126	148	153	155	135	
1- 2	142	153	193	149	202	151	161	130	154	142	134	127	153	161	160	139	
2- 3	145	156	205	152	209	163	160	132	173	142	135	129	158	166	168	141	
3- 4	145	157	190	150	206	165	158	139	162	143	134	131	157	167	161	142	
4- 5	145	159	181	149	193	163	153	133	144	144	136	129	152	161	155	142	
5- 6	145	156	181	148	173	153	144	133	143	143	136	127	148	151	154	141	
6- 7	141	150	164	140	153	146	142	130	137	135	128	129	141	143	144	137	
7- 8	136	139	145	139	135	143	115	127	127	132	127	127	133	130	136	132	
8- 9	133	125	124	112	144	132	117	124	88	126	118	125	122	129	113	125	
9-10	126	116	88	122	116	129	121	119	88	115	100	121	113	121	103	116	
10-11	120	96	63	107	83	132	124	106	81	97	97	116	102	111	87	107	
11-12	115	89	80	116	93	133	127	104	66	98	106	114	103	114	90	106	
12-13	105	68	110	114	60	133	126	107	59	89	103	113	99	107	93	97	
13-14	110	72	129	101	83	125	130	114	83	101	106	115	106	113	104	101	
14-15	117	91	138	105	77	126	134	118	89	103	108	110	110	114	109	107	
15-16	125	92	143	117	84	123	132	120	93	104	114	113	113	115	114	111	
16-17	127	91	139	119	90	119	127	116	103	111	121	119	115	113	118	115	
17-18	124	103	133	116	103	109	120	105	106	119	123	118	115	109	119	117	
18-19	126	104	130	115	110	98	111	98	110	121	117	116	113	104	119	116	
19-20	126	113	130	120	123	99	109	99	116	120	119	116	116	108	122	119	
20-21	128	125	132	128	132	104	112	103	123	124	124	116	121	113	127	123	
21-22	130	134	139	136	147	112	114	108	127	128	128	119	127	120	133	128	
22-23	132	141	162	146	159	122	120	117	132	132	130	122	134	130	143	131	
23-24	134	150	177	148	182	132	132	128	139	134	132	124	143	144	150	135	
MEAN	130	122	144	129	136	131	130	118	116	123	121	121	127	129	128	124	

THREE-HOUR RANGE INDICES

VICTORIA 1969

TABLE 46

JANUARY

FEBRUARY

DAY	D	H	Z	K	DAY	D	H	Z	K
1	0134 2211	1112 1111	1002 0010	1134 2211	1	0000 0222	0011 0122	0000 0011	0011 0222
2	0300 2100	1110 1000	0000 0000	1310 2100	2	0022 2574	0021 2684	0011 1354	0022 2684
3	0000 0000	0000 0000	0000 0000	0000 0000	3	4465 6443	4363 5344	3354 5323	4465 6444
4	0001 1111	1012 1112	0001 0000	1012 1112	4	2032 3322	2122 2223	1011 2222	2132 3323
5	0301 1000	0111 1101	0010 0000	0311 1101	5	3123 1011	3233 1012	2112 0011	3233 1012
6	0011 0000	1011 0011	0000 0000	1011 0011	6	2433 0122	3332 0012	1223 0011	3433 0122
7	1123 4232	1122 2012	1002 3001	1123 4232	7	1033 3222	0012 1012	0003 1011	1033 3222
8	1242 0100	1231 0111	1021 0000	1242 0111	8	2121 1221	3221 1111	1000 0000	3221 1221
9	1100 0010	1111 0001	0000 0000	1111 0011	9	0000 0110	0100 0100	0000 0000	0100 0110
10	0001 2000	0110 2000	0000 0000	0111 2000	10	1033 3124	1132 1114	0011 1022	1133 3124
11	0020 2211	0021 1210	0000 0100	0021 2211	11	6356 6633	5255 7534	5356 6652	6356 7634
12	1023 4300	1121 3100	0001 1000	1123 4300	12	2101 0221	2110 0113	1000 0012	2111 0223
13	0001 1001	0000 1001	0000 0000	0001 1001	13	2123 2312	2222 2212	0012 2100	2223 2312
14	1333 1123	2122 1002	0022 0000	2333 1123	14	0202 2122	1301 1113	0002 1012	1302 2123
15	1213 2232	2212 2231	1001 0000	2213 2232	15	1424 3232	2322 2132	1213 1111	2424 3232
16	1333 5311	1222 3311	0011 3200	1333 5311	16	2352 2212	2232 2111	1031 2101	2352 2212
17	2424 3232	3324 2222	2223 2111	3424 3232	17	0011 1101	1111 1000	0000 0001	1111 1101
18	2455 4222	2442 2222	1134 3101	2455 4222	18	0000 0110	0000 0001	0000 0000	0000 0111
19	3134 3111	3223 2111	1013 0010	3234 3111	19	0211 4211	0122 2111	0000 3110	0222 4211
20	1322 2222	1221 2222	0100 0011	1322 2222	20	0112 3332	0321 2221	0101 1222	0322 3332
21	1123 1211	2211 0011	0001 0000	2223 1211	21	1140 1210	2231 1100	1010 0100	2241 1210
22	0132 0110	0011 0000	0011 0000	0132 0110	22	0021 2312	0021 2102	0000 0100	0021 2312
23	0012 2110	0000 1112	0000 0000	0012 2112	23	2343 4222	2322 3112	1012 2111	2343 4222
24	0000 4332	1001 3222	0000 3212	1001 4332	24	0121 1101	1221 0002	0021 0011	1221 1102
25	2344 4442	4233 5332	2133 4321	4344 5442	25	2012 1110	3121 0000	1000 1000	3122 1110
26	4325 5222	5312 3222	3213 3321	5325 5222	26	1343 2220	3232 2121	2132 1100	3343 2221
27	0334 5222	1133 3211	0021 310	1334 5222	27	1341 4532	2332 4432	1121 3330	2342 4532
28	2111 0110	1212 0000	0000 0000	2212 0110	28	1241 2323	2331 1213	0230 1112	2341 2323
29	0001 0101	0000 0001	0000 0000	0001 0101					
30	0114 2100	1112 1100	0003 0000	1114 2100					
31	0013 3322	0022 3211	0001 1110	0023 3322					

THREE-HOUR RANGE INDICES

VICTORIA 1969

TABLE 47

MARCH

APRIL

DAY	D	H	Z	K	DAY	D	H	Z	K
1	1000 2333	3121 2233	0000 0122	3121 2333	1	1224 2453	2322 2332	1013 3222	2324 2453
2	4303 3111	4301 2001	2212 2000	4303 3111	2	3113 3342	3121 2443	2001 1112	3123 3443
3	0000 1110	1000 0001	0000 0000	1000 1111	3	4221 3222	3221 1122	3211 1100	4221 3222
4	0000 1023	0000 0023	0000 0011	0000 1023	4	3443 3221	2332 2122	2232 3000	3443 3222
5	1002 2222	2122 2112	0003 2001	2122 2222	5	2252 1212	3242 1112	1030 0000	3252 1212
6	3223 1221	2122 1222	1013 1111	3223 1222	6	2231 2222	2231 2223	1020 0112	2231 2223
7	2332 4333	3321 2332	1212 3210	3332 4333	7	3532 2321	3442 2112	3232 2010	3542 2322
8	2323 2212	2322 2013	1102 1001	2323 2213	8	2112 2211	2212 1112	1101 1000	2212 2212
9	1223 3322	2223 1111	0011 3100	2223 3322	9	2243 2222	2233 2122	1123 1121	2243 2222
10	2222 0120	2211 1011	0001 0000	2222 1121	10	0043 2321	1221 1221	0022 0000	1243 2321
11	2243 4333	2222 3243	0013 3123	2243 4343	11	1142 2110	2233 2011	1021 2000	2243 2111
12	5655 2421	4454 2211	4445 1100	5655 2421	12	0012 2233	1112 1134	0000 0022	1112 2234
13	3122 1211	2101 0103	2000 0011	3122 1213	13	4253 3432	5332 3433	3223 3123	5353 3433
14	1211 1222	1211 1113	0001 0001	1211 1223	14	4113 3332	5322 3322	4302 2112	5323 3332
15	4443 2332	3243 2323	2143 2122	4443 2333	15	2343 3332	3333 2222	2233 4111	3343 3332
16	1554 3211	1334 2121	1244 1000	1554 3221	16	2353 4222	2343 2223	2243 3012	2353 4223
17	4534 5531	5433 4333	3433 5312	5534 5533	17	3263 4332	4342 3333	3243 3111	4363 4333
18	0333 2212	1243 1222	0233 1011	1343 2222	18	5453 2111	3342 2113	3331 1000	5453 2113
19	0032 2234	2122 1034	0021 0022	2132 2234	19	2000 2111	2011 1022	2000 1001	2011 2122
20	4253 2323	5433 1333	5323 1212	5453 2333	20	1020 2122	3221 1112	2000 0011	3221 2122
21	2254 3122	2243 1123	1132 2012	2254 3123	21	2000 0121	2122 2022	2000 0011	2122 2122
22	1343 2321	2322 3121	2211 2122	2343 3321	22	1134 2210	3342 2121	1122 2111	3344 2221
23	0002 2355	1112 2256	0000 0146	1112 2356	23	0121 3211	1221 2212	1000 1001	1221 3212
24	7588 5321	9587 6213	6587 7101	9588 6323	24	2231 1222	3331 2222	2220 0011	3331 2222
25	1153 4122	3243 3123	2045 3112	3253 4123	25	3232 2221	4222 1222	2110 1001	4232 2222
26	1133 3311	3121 2122	2112 1101	3133 3322	26	2211 2132	2111 1212	1100 0001	2211 2232
27	1121 2100	2221 2011	1100 0000	2221 2111	27	2333 1231	3222 2232	2003 1111	3333 2232
28	1211 2221	1121 2212	0000 0011	1221 2222	28	2685 5432	3576 4433	2476 5311	3686 5433
29	1133 3333	1123 3323	0011 1222	1133 3333	29	2221 2323	3331 2334	2110 1112	3331 2334
30	3233 1233	3222 0224	2011 0112	3233 1234	30	3443 4322	3443 3333	2433 3211	3443 4333
31	3222 3321	3322 2332	2121 1110	3322 3332					

THREE-HOUR RANGE INDICES

VICTORIA 1969

TABLE 48

MAY

JUNE

DAY	D	H	Z	K	DAY	D	H	Z	K
1	3422 1111	2431 0112	1231 0000	3432 1112	1	2211 2220	3221 2122	2100 0010	3221 2222
2	1324 3462	2223 3453	0012 3241	2324 3463	2	0331 2121	2332 1212	0130 1001	2332 2222
3	2553 3212	2332 2223	0232 3101	2553 3223	3	1111 0221	2211 1213	2100 1021	2211 1223
4	1322 1221	2311 1222	1101 0011	2322 1222	4	1131 2211	2221 1101	2221 1100	2231 2211
5	2113 3221	2212 2222	2002 2110	2213 3222	5	1213 2120	2221 1120	2200 0111	2223 2120
6	2331 2111	2331 1102	2310 1001	2331 2112	6	0011 1211	2110 1212	1000 0000	2111 1212
7	1133 0000	2221 0001	2032 0000	2233 0001	7	2213 5210	3223 3121	1011 3000	3223 5221
8	1111 1211	1222 2112	0000 0010	1222 2212	8	1332 3332	2432 2343	2211 0211	2432 3343
9	1243 2233	2222 2234	0022 0122	2243 2234	9	2223 4243	3312 2244	2200 1023	3323 4244
10	1333 2212	3332 2112	2131 1000	3333 2212	10	2233 3210	3332 2221	2332 2101	3333 3221
11	0123 2110	2112 1121	1002 0000	2123 2121	11	1233 2132	3231 2124	2132 0012	3233 2134
12	0011 1132	1111 1133	1100 0022	1111 1133	12	3544 2231	2432 2222	3332 2111	3544 2232
13	4564 5433	5453 3433	4364 4334	5564 5433	13	2522 3132	3422 2234	2320 3122	3522 3234
14	5543 1354	5432 3355	5423 2135	5543 3355	14	3343 5421	3444 4323	2242 4212	3444 5423
15	6656 6653	7656 6445	7747 5654	7656 6655	15	1333 3221	3223 2222	2203 2031	3333 3222
16	5574 3221	4563 3123	4565 5002	5574 3223	16	1355 3222	3333 3223	2133 2112	3355 3223
17	1353 2111	3342 1123	3242 1013	3353 2123	17	5453 2331	4433 2332	4422 1110	5453 2332
18	3344 2342	4343 1233	3133 1221	4344 2343	18	1000 1121	2211 1222	1100 0011	2211 1222
19	2113 3221	3222 2222	1111 2112	3223 3222	19	0222 2122	1223 3123	0001 1011	1223 3123
20	2332 2120	2322 2132	2210 0022	2332 2132	20	3332 3111	4332 3122	2233 1000	4332 3122
21	2343 4121	3233 3223	2224 3212	3343 4223	21	1233 3110	2121 1121	1101 0000	2233 3121
22	1323 3321	2123 2322	2104 2212	2323 3322	22	0102 0210	1101 2110	0000 0110	1102 2210
23	1233 3331	3222 2231	2112 2120	3233 3331	23	0112 2110	2332 1212	0111 0101	2332 2212
24	1432 2222	2432 2223	1320 3012	2432 2223	24	3323 3322	3422 2223	2311 1001	3423 3323
25	3311 1111	4221 1112	3200 0001	4321 1112	25	0132 3221	2322 1233	0100 0011	2332 3233
26	0201 0100	1222 0111	1102 1100	1222 0111	26	2113 3211	3212 1212	2102 2000	3213 3212
27	0001 2100	0111 2112	0000 0001	0111 2112	27	1221 2102	2212 1112	2200 1010	2222 2112
28	1333 2311	2233 1313	1101 0111	2333 2313	28	1011 0010	2211 0112	1000 0001	2211 0112
29	0012 2221	1111 1223	0000 0101	1112 2223	29	0111 1211	2211 2122	1100 0011	2211 2222
30	1134 4311	2232 2313	1032 2101	2234 4313	30	0212 2211	2111 2122	0000 0001	2212 2222
31	1533 3221	3332 2233	1321 2001	3533 3233					

THREE-HOUR RANGE INDICES

VICTORIA 1969

TABLE 49

JULY

AUGUST

DAY	D	H	Z	K	DAY	D	H	Z	K
1	1242 3321	3252 3222	1051 2112	3252 3322	1	0012 1100	2111 0001	1000 0000	2112 1101
2	2330 0000	3222 2002	2120 0000	3332 2002	2	0000 2212	1001 2122	0000 0000	1001 2222
3	0000 0110	2110 0011	0000 0011	2110 0111	3	2213 2333	3323 1333	2201 1122	3323 2333
4	0000 0000	1000 1012	0000 0001	1000 1012	4	3322 1311	4423 2212	2303 1000	4423 2312
5	0001 1000	1100 0001	1100 0000	1101 1001	5	1413 3110	3322 2101	1201 2000	3423 3111
6	1001 2111	2111 2212	0000 0001	2111 2212	6	2221 0000	3211 0011	1200 0000	3221 0011
7	0102 2321	2211 1222	1000 0100	2212 2322	7	1331 2120	3212 1122	2100 0001	3332 2122
8	0100 1221	2200 1122	1000 0101	2200 1222	8	2034 2212	2112 1223	2003 2001	2134 2223
9	1132 2212	3221 1222	1220 1001	3232 2222	9	1332 3221	3312 2122	2200 0001	3332 3222
10	2303 2211	3212 1123	1201 0101	3313 2223	10	0234 1000	2232 1000	0032 0000	2234 1000
11	0120 1221	2110 0222	1200 0011	2120 1222	11	0001 1211	0112 2222	0000 0010	0112 2222
12	2242 2121	3332 2124	2242 0021	3342 2124	12	2534 3331	4333 3323	2234 3211	4534 3333
13	0434 2231	4332 3232	2332 2021	4434 3232	13	2233 0100	3232 0122	1132 0000	3233 0122
14	1533 3222	2422 3222	0322 2010	2533 3222	14	1143 3220	2232 3110	1123 1000	2243 3220
15	0223 3001	2122 2012	1100 1000	2223 3012	15	0020 2211	0022 2103	0000 0001	0022 2213
16	0323 2230	2223 2333	1103 1010	2323 2333	16	0002 0100	1011 1112	0001 0000	1012 1112
17	1321 1110	3211 1121	1100 0000	3321 1121	17	2331 0000	3222 0001	1010 0000	3332 0001
18	0012 3000	1012 2011	0001 1000	1012 3011	18	2002 2101	2212 2112	0000 1000	2212 2112
19	0121 0000	1121 1001	0000 0000	1121 1001	19	1433 2212	2233 2222	0023 1102	2433 2222
20	0211 2000	2223 1111	0000 0011	2223 2111	20	3342 2110	2231 1012	1031 0000	3342 2112
21	1000 1220	2121 1212	1000 0001	2121 1222	21	0400 2211	2300 0212	1100 0000	2400 2212
22	2122 1211	2332 1112	1100 0001	2332 1212	22	1101 2212	2001 1222	1000 0000	2101 2222
23	0002 0210	1211 0122	1000 0000	1212 0222	23	2224 3212	4423 2213	2203 2111	4424 3213
24	0010 1100	1120 1011	0000 0000	1120 1111	24	1303 2221	3213 2113	1101 0001	3313 2223
25	1220 1121	1220 0112	0010 0011	1220 1122	25	2110 0000	3110 0001	1000 0000	3110 0001
26	1203 3212	2314 3223	1112 3103	2314 3223	26	0126 4113	1224 2013	0004 2002	1226 4113
27	6563 3110	6342 2122	6562 2010	6563 3122	27	3644 3211	4423 1112	3433 2000	4644 3212
28	0130 0100	2231 1100	0030 0000	2231 1100	28	1321 1100	2311 0002	1200 0000	2321 1102
29	0020 0000	1110 0000	0000 0000	1120 0000	29	0001 1110	1011 0000	0000 0000	1011 1110
30	0001 2342	2222 2444	0000 0122	2222 2444	30	0031 2100	0121 1011	0000 0010	0131 2111
31	1211 2210	2211 1111	1100 0000	2211 2211	31	1032 1110	2021 0111	1010 0000	2032 1111

THREE-HOUR RANGE INDICES

VICTORIA 1969

TABLE 50

SEPTEMBER

OCTOBER

DAY	D	H	Z	K	DAY	D	H	Z	K
1	0020 0100	1110 0000	1000 0000	1120 0100	1	2234 4321	4244 4222	1034 4211	4244 4322
2	0112 0000	0111 1001	0000 0000	0112 1001	2	4446 5511	3245 4421	2345 4400	4446 5521
3	0002 0120	1011 1022	0001 0000	1012 1122	3	4333 4312	3222 3211	1213 3210	4333 4312
4	2200 1111	1211 1012	0000 0000	2211 1112	4	3333 2123	2212 1012	0102 0000	3333 2123
5	0023 5332	1113 4223	0000 5432	1123 5333	5	2223 1120	2122 1011	0001 0010	2223 1121
6	1654 2211	3442 0213	2344 2001	3654 2213	6	2334 3221	2321 3221	0113 1110	2334 3221
7	1045 3221	3123 1222	1023 2001	3145 3222	7	1441 1100	2332 0000	1130 0000	2442 1100
8	3564 2220	3354 1110	1264 1000	3564 2220	8	0020 1110	0020 0001	0010 0000	0020 1111
9	0343 3210	2332 2212	1032 2000	2343 3212	9	0111 1322	1110 1132	0000 0000	1111 1332
10	3300 2121	2200 1022	1000 0000	3300 2122	10	2435 5321	4333 2213	2324 3110	4435 5323
11	3232 3121	4232 1111	1121 0000	4232 3121	11	1334 3201	2332 2012	0013 3100	2334 3212
12	1413 1100	3312 0000	1201 0000	3413 1100	12	3042 3210	3242 3100	1031 3100	3242 3210
13	0022 1000	0122 0001	0001 0000	0122 1001	13	0033 0100	0023 1000	0013 1000	0033 1100
14	1214 1333	2212 1323	0002 0212	2214 1333	14	0000 0100	0010 1111	0000 0000	0010 1111
15	5453 3530	4332 3422	4322 2200	5453 3532	15	0122 1000	0032 0000	0011 0000	0132 1000
16	2422 1001	2331 1012	2111 0001	2432 1012	16	0120 0211	0210 0011	0010 0000	0220 0211
17	0004 3332	1013 2223	1002 2111	1014 3333	17	0002 0111	0011 0012	0000 0000	0012 0112
18	2334 4322	3232 3323	1022 2111	3334 4323	18	1044 1011	1023 1002	0012 0001	1044 1012
19	2423 2212	3411 1113	1301 0001	3423 2213	19	1132 3222	2232 2112	0021 3001	2232 3222
20	1243 2211	2222 2121	0032 1110	2243 2221	20	0000 0111	1001 0011	0000 0000	1001 0111
21	0121 0100	1121 0001	0010 0000	1121 0101	21	0023 1312	1022 1112	0012 0100	1023 1312
22	0021 1100	1220 0000	0020 0001	1221 1100	22	2312 3211	2112 2010	1001 1000	2312 3211
23	0000 3221	0011 2222	0000 2111	0011 3222	23	1120 0101	1010 0001	0000 0000	1120 0101
24	1222 1112	1222 0102	1101 0001	1222 1112	24	2432 3223	3323 1003	1212 2101	3433 3223
25	1330 1302	2330 1212	1120 0101	2330 1312	25	1310 0002	3200 0002	0000 0001	3310 0002
26	0033 0001	1112 0011	0002 0000	1133 0011	26	0020 1000	0121 0011	0000 0000	0121 1011
27	0000 1213	0000 1003	0000 0002	0000 1213	27	0002 2311	0011 1022	0001 1110	0012 2322
28	3225 5533	3335 5424	1214 4323	3335 5534	28	2122 0202	1201 0111	0000 0010	2222 0212
29	1456 5544	2454 6535	0255 5524	2456 6545	29	0201 0110	0201 0001	0000 0000	0201 0111
30	6576 5321	6566 6332	8777 7332	6576 6332	30	0020 0000	0000 0000	0000 0000	0020 0000
					31	1234 3201	1233 2101	0013 2100	1234 3201

THREE-HOUR RANGE INDICES

VICTORIA 1969

TABLE 51

NOVEMBER

DECEMBER

CAY	D	H	Z	K	DAY	D	H	Z	K									
1	0000	0000	0000	0000	0000	0000	0000	0000	0000	1	0013	3210	0022	1000	0001	1000	0023	3210
2	2023	3211	1121	0222	0000	0000	2123	3222	2123	2	0121	1110	0020	0000	0010	0000	0121	1110
3	2443	3321	2333	2222	1132	1100	2443	3322	2443	3	0010	0013	0000	0013	0000	0001	0010	0013
4	0233	1110	2212	0001	0003	0000	2233	1111	2233	4	2213	3210	2222	2200	0001	2100	2223	3210
5	1102	2200	1212	1201	0000	0100	1212	2201	1212	5	0234	4433	0233	3323	0013	2212	0234	4433
6	0020	0001	1010	0001	0000	0000	1020	0001	1020	6	3543	4322	3422	3322	2322	3201	3543	4322
7	2233	3231	3232	3312	1021	3110	3233	3332	3233	7	1023	1101	1121	1100	0001	0000	1123	1101
8	0232	3343	1221	2342	0020	0232	1232	3343	1232	8	1110	1110	1110	0111	0000	0000	1110	1111
9	1455	5441	2436	5532	0336	4531	2456	5542	2456	9	3301	2211	1211	1101	0100	1000	3311	2211
10	1365	5332	2354	4232	1343	4220	2365	5332	2365	10	0011	0222	0011	0112	0000	0000	0011	0222
11	1123	2221	1122	1312	0011	0100	1123	2322	1123	11	2142	2221	2232	1110	0030	2100	2242	2221
12	1212	0000	3111	0110	1001	0000	3212	0110	3212	12	1211	2000	1211	1000	0000	0000	1211	2000
13	0012	1211	0012	0101	0000	0000	0012	1211	0012	13	0020	1100	1110	0000	0000	0000	1120	1100
14	1000	0000	0100	0000	0000	0000	1100	0000	1100	14	0000	1311	0001	1100	0000	0000	0001	1311
15	0000	0000	0000	0000	0000	0000	0000	0000	0000	15	0002	1211	0012	0111	0001	0000	0012	1211
16	0000	0110	1011	0011	0000	0000	1011	0111	1011	16	1052	2321	3131	2311	1010	0010	3152	2321
17	0000	0111	1000	0011	0000	0010	1000	0111	1000	17	1002	1100	2001	0000	0000	0000	2002	1100
18	0002	0211	1110	0121	0000	0000	1112	0221	1112	18	0000	0010	0000	0000	0000	0000	0000	0010
19	0031	3111	0011	1021	0000	1000	0031	3121	0031	19	0001	2111	1001	1111	0000	0001	1001	2111
20	1001	0000	1111	0000	0000	0000	1111	0000	1111	20	0000	0111	0000	0010	0000	0011	0000	0111
21	0001	0101	0010	1001	0000	0000	0011	1101	0011	21	1000	0001	2000	0101	0000	0000	2000	0101
22	1321	1221	3322	1011	1100	0010	3322	1221	3322	22	1042	3321	1031	3211	0010	1101	1042	3321
23	0000	0211	0000	0012	0000	0001	0000	0212	0000	23	0224	4332	1223	3222	0002	2200	1224	4332
24	0013	2211	1012	1111	0002	0000	1013	2211	1013	24	3204	3221	3112	2021	2002	2000	3214	3221
25	0032	3212	0022	0111	0001	1000	0032	3212	0032	25	0432	3222	0222	2111	0111	1100	0432	3222
26	2331	1332	2321	1331	1010	0110	2331	1332	2331	26	1032	1322	0022	0312	0010	0101	1032	1322
27	1545	4332	1333	3332	0234	3310	1545	4332	1545	27	3334	2110	2323	0101	0113	2000	3334	2111
28	1252	3112	2122	0112	1022	1011	2252	3112	2252	28	0002	1110	0001	0201	0000	0100	0002	1211
29	0044	4222	1021	2222	0011	3111	1044	4222	1044	29	0012	0110	1021	1000	0000	0000	1022	1110
30	4342	2421	3333	2221	2232	0100	4343	2421	4343	30	0201	0000	0100	1000	0000	0000	0201	1000
										31	0002	0001	0102	0011	0000	0010	0102	0011

RECORD OF OBSERVATIONS AT VICTORIA MAGNETIC OBSERVATORY 1969