

CANADA
DEPARTMENT OF MINES AND TECHNICAL SURVEYS
Dominion Observatories

PUBLICATIONS
of the
DOMINION OBSERVATORY

Introduction

OTTAWA

337

Tables

1. 36 Hourly Values of Horizontal Intensity, Declination, and Vertical Intensity
Hourly, Daily and Monthly Means

339

2. Annual Inequality of H, D, and Z, as well as the annual range of
the annual inequality of H, D, and Z, by month, by year, and by
magnetic year

Volume XXVI • No. 8

376

3. Annual Range of H, D, and Z, by month, by year, and by
magnetic year

379

RECORD OF OBSERVATIONS AT
VICTORIA MAGNETIC OBSERVATORY
FOR 1959

B. Caner and A. Perry-Whittingham

Price 25 cents

This document was produced
by scanning the original publication.

Ce document est le produit d'une
numérisation par balayage
de la publication originale.

CONTENTS

	PAGE
INTRODUCTION	337
 TABLES	
1-36 Hourly Values of Horizontal Intensity, Declination, and Vertical Intensity: Hourly, Daily and Monthly Means	339
37-45 Diurnal Inequalities of H, D, and Z, (not corrected for non-cyclic changes), on all days and on International quiet and disturbed days, by month, by season, and by year	376
46 Three-hour Range Indices	379

CONTENTS

Introduction 1

TABLES

1-36 Hourly Values of Horizontal Intensity, Duration, and Vertical Intensity
Hourly, Daily and Monthly Means 40

37-45 Diurnal Inequalities of H, D, and Σ , not corrected for day length, on all
days and on International quiet and disturbed days, by month, by season, and by
year 48

46 Three-hour Range Indices 53

VICTORIA MAGNETIC OBSERVATORY, 1959

Geographic Latitude 48° 31' North

Geographic Longitude 123° 25' West

Geomagnetic Latitude 54.3° North

Geomagnetic Longitude 292.7° East

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 and equipment can be found in the publication containing the record of observations for the period 1957-1958 (Caner and Loomer, 1960). Construction of a permanent variometer building was completed in September 1959; the original prefabricated aluminum building was then used to house the absolute instruments and the control equipment for the electronic recording magnetometer only.

The photographic three-component variometer used was a portable Askania-Werke earth magnetic variograph (Caner and Loomer, 1960). Scale values were checked monthly using the incorporated deflection coils, and were found to be constant. For an original paper width of 120 mm the values adopted were:

D: 0.50 minutes per mm., or

2.72 gammas per mm.

H: 2.48 gammas per mm.

and Z: 3.28 gammas per mm.

Although processing procedures were standardized as far as possible, large variations in paper expansion or shrinkage were encountered and corrected scale values were used for scaling H and Z. The D-component which is the lowest ordinate on the record was not significantly affected.

A three-component set of Ruska variometers was installed in September 1959 and operated concurrently with the Askania variograph for the last three months of the year. Ruska records were not used for compilation of the data in this publication, but starting in January 1960 the Ruska variometers will constitute the primary equipment of the observatory, with the Askania instrument as a stand-by variometer. Sufficient overlap scaling will be carried out to ensure continuity of hourly mean values.

The remaining observatory equipment was unchanged from that described in the preceding publication.

Absolute Observations and Base-line Values

The procedures used up to June 30 were essentially those described by Caner and Loomer, 1960. From July 1 onwards the QHM alone was used for determination of horizontal intensity. The vertical component was computed from these values of horizontal intensity and from the inclination determined with the three-component saturable core magnetometer.

Declination

The adopted declination base line was obtained by least-squares fitting of straight lines to the observed values, using the reciprocals of the standard errors of the observations as weighting factors. Discontinuities occurred on April 3 and 6, May 19, June 8, October 8, and November 20 and 26. These were due to suspension adjustments or introduction of new equipment into the building. The fitted linear segments indicated zero or negligible base-line drift between discontinuities. The r.m.s. value of the observed minus adopted base-line values is ± 0.6 minutes.

Horizontal Intensity

Discontinuities in the horizontal force base lines occurred on January 22, April 3, May 19, and October 8. These were due to suspension adjustments or the introduction of new equipment into the building. Between discontinuities straight lines were fitted by least-squares to the observed values, using the reciprocals of the standard errors of the observations as weighting factors. Base-line drift was found to be low, about 3 gammas per month during the summer and less than 1 gamma per month during the rest of the year. The r.m.s. value of the observed minus adopted base-line values is ± 7 gammas for the whole year, or ± 9 gammas up to June 30 and ± 2 gammas for the rest of the year.

Vertical Intensity

Up to April 20 the vertical component suspension was not compensated for temperature and hourly mean values were corrected at the rate of + 10 gammas/°C whenever the heating capacity of the observatory proved insufficient to maintain constant temperature. The suspension was compensated during the period April 20-26,

and no temperature corrections were necessary after this date.

Base-line drift up to April 20 was of the order of 10 to 20 gammas per month. Fairly extensive changes in torsion were necessary to compensate the suspension for temperature, and in the months following this adjustment base-line drift was considerable, about 200 gammas in May, 150 gammas in June, 120 gammas in July, 80 gammas in August, and tapering off to about 20 gammas in December. Least-squares fitting of base lines was carried out for the period January 1 to April 20. During the rest of the year base-line drift was both rapid and irregular and the suspension had to be repeatedly re-adjusted to bring the trace back on scale; since only a few base-line determinations were available for each period between discontinuities, no reliable base-line values could be determined. The adopted base-line values were estimated using the available base-line determinations, data on discontinuities, and in particular the trend of quiet-day means. Consequently non-cyclic or long-period changes during these months have probably been removed and the data is valid only for the study of variations with periods of about 24 hours or less.

Discontinuities in the vertical force base lines occurred on April 3 and during the interval April 20 to 27, May 1, 5, and 19, June 1, 8, and 18, July 23, September 11, October 7 and 8, November 10, 20, and 26. These discontinuities were due to suspension adjustments. The r.m.s. value of the observed minus adopted base-line values is ± 19 gammas for the whole year, or ± 16 gammas for the period January to April and ± 21 gammas for the rest of the year.

Magnetic Reductions, Magnetic Activity and Disturbance Indices

The procedures used in the reduction and tabulation of the data were unchanged from those described by Caner and Loomer (1960). Values marked with an asterisk* were obtained by interpolation from low-sensitivity records, with an accuracy of about 5 gammas.

Summary of Annual Mean Values

The mean values derived in 1957, 1958, and 1959 are given below, together with a determination of the field made on July 31, 1956 on the site of the absolute pier prior to installation of the observatory.

Year	D		H	Z
	°	'	γ	γ
1956.6	23	07.5	18740	53460
1957.75	23	04.4	18756	53441
1958.5	23	02.5	18764	53429
1959.5	23	00.1	18787	53410

Declination east continues to decrease at a rate of about 2.5 minutes per year. The mean decrease of vertical field intensity appears to be about 17 gammas per year. The mean rate of increase of the horizontal field intensity over the last four years is about 16 gammas per year.

A permanent building for the absolute instruments was completed in September 1961 and at the same time a nuclear precession magnetometer was installed as the primary force standard of the observatory. In order to reduce all prior data to the new location, the following corrections should be applied to the data in this publication and to those in the preceding publication:

D: -7.3 mins. H: -51 gammas Z: -33 gammas

The next observatory publication, that for 1960, will show absolute values referred to the new location and the mean annual value table therein will show values for the years 1956.6—1959.5 corrected by the amounts given above.

Acknowledgements

The help of Dr. R. M. Petrie, Dominion Astrophysicist, and the staff of the Dominion Astrophysical Observatory is greatly appreciated.

Reference

CANER, B., and LOOMER, E. I., 1960. Record of Observations at Victoria Magnetic Observatory, 1957-1958. *Dom. Obs. Pub.*, Ottawa, V. 24, No. 9.

HORIZONTAL INTENSITY
Mean values for periods of sixty minutes, Universal Time

Table 1 Victoria

H = 18,500 γ +

January 1959

Hour U. T. Day	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	Mean
	to 1	to 2	to 3	to 4	to 5	to 6	to 7	to 8	to 9	to 10	to 11	to 12	to 13	to 14	to 15	to 16	to 17	to 18	to 19	to 20	to 21	to 22	to 23	to 24		
1 Q	298	300	301	302	302	300	300	300	300	300	301	301	302	303	305	304	297	280	264	256	258	268	279	292	292	
2 Q	300	302	302	302	303	304	303	302	303	303	305	312	312	316	316	314	313	300	281	262	261	270	289	302	299	
3	304	300	294	292	292	285	286	295	298	300	300	302	308	308	310	313	314	302	278	259	258	271	281	291	293	
4	302	306	306	306	306	305	302	305	302	303	307	308	304	306	310	314	295	283	266	254	252	258	268	282	294	
5	290	295	298	298	296	300	298	293	290	292	290	300	296	288	293	290	288	248	244	217	207	199	203	241	273	
6 D	264	264	260	266	268	274	270	266	268	262	269	277	275	282	255	281	271	243	227	238	234	210	234	238	258	
7 D	251	248	266	267	254	254	260	263	264	270	270	274	276	278	282	286	283	265	246	235	220	225	249	249	260	
8	247	260	258	264	275	276	274	276	274	275	285	289	288	284	285	280	286	277	267	242	231	226	232	235	266	
9 D	238	268	276	276	278	280	280	280	278	279	282	280	275	283	265	271	225	217	247	250	231	209	199	206	257	
10 D	221	242	248	248	236	235	229	235	226	181	235	174	256	265	239	265	225	210	219	193	204	210	210	208	226	
11	221	244	255	260	258	254	255	252	255	261	265	269	272	268	268	274	280	265	246	237	220	234	236	241	254	
12	251	274	274	276	281	284	284	282	282	284	283	286	290	292	293	295	294	274	246	237	240	245	257	267	274	
13	275	280	281	282	284	282	280	281	280	280	272	284	288	290	295	299	300	279	256	233	238	245	263	279	276	
14	288	289	288	291	293	294	296	296	295	288	292	295	297	299	309	306	296	280	267	254	245	248	249	263	284	
15	282	284	279	270	267	271	270	275	277	278	277	282	285	292	296	299	293	275	257	244	244	255	268	282	275	
16	291	288	291	290	291	290	290	287	297	298	283	272	289	293	295	276	284	272	263	252	243	241	248	259	278	
17	271	275	272	271	274	272	274	273	272	276	284	282	273	268	286	306	305	279	264	250	244	249	263	273	273	
18	281	279	262	264	262	273	280	283	280	284	286	293	289	278	292	307	290	273	275	264	241	233	246	268	274	
19	276	282	279	273	282	284	286	284	281	285	286	291	290	291	294	294	294	280	257	234	246	255	261	271	277	
20 Q	280	283	286	288	290	290	293	296	294	294	295	296	297	297	298	296	292	279	267	259	259	258	268	277	285	
21 Q	287	292	293	296	297	296	296	299	294	294	296	300	302	302	303	305	302	278	272	268	264	267	270	276	290	
22	290	296	298	304	299	296	298	299	306	308	301	305	308	310	311	309	305	295	280	263	264	272	279	286	295	
23	290	292	299	300	300	299	303	301	304	306	308	311	308	310	312	312	310	301	286	274	271	278	287	290	298	
24 Q	296	293	296	296	295	294	298	296	297	298	302	303	307	310	309	309	307	298	285	280	273	272	277	290	295	
25	296	297	301	304	306	305	305	306	308	312	316	331	330	319	331	306	283	284	286	269	252	253	253	265	297	
26 D	278	284	286	290	274	275	275	278	278	282	292	276	223	291	285	290	284	291	267	260	259	258	259	268	275	
27	273	274	274	276	285	290	285	281	285	284	280	286	302	309	312	305	290	272	251	249	248	250	254	271	279	
28	273	272	278	279	280	280	284	286	286	284	288	295	294	292	289	294	294	277	263	256	249	252	268	279	279	
29	292	292	291	294	297	299	294	293	281	273	274	288	300	303	307	319	318	298	273	251	247	243	258	267	286	
30	281	289	296	288	288	282	278	286	286	287	297	288	293	295	295	295	288	282	272	263	262	266	272	285	284	
31	297	296	282	285	280	285	271	270	278	270	285	283	284	283	288	289	285	269	261	253	249	255	266	274	277	
Mean	277	282	283	284	284	284	284	284	284	284	287	288	291	294	294	297	290	275	262	250	246	248	256	267	278	

DECLINATION
Mean values for periods of sixty minutes, Universal Time

Table 2 Victoria

D = 22° 45.0' E +

January 1959

Hour U. T. Day	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	Mean
	to 1	to 2	to 3	to 4	to 5	to 6	to 7	to 8	to 9	to 10	to 11	to 12	to 13	to 14	to 15	to 16	to 17	to 18	to 19	to 20	to 21	to 22	to 23	to 24	
1 Q	15.3	16.2	16.7	17.2	17.4	17.2	16.9	16.6	16.3	16.4	16.7	16.9	17.1	17.3	17.7	18.7	21.4	23.7	23.7	20.8	17.7	15.4	13.7	13.7	17.5
2 Q	14.4	15.5	16.2	16.7	16.8	16.9	16.8	16.7	16.4	16.4	16.7	16.7	16.7	15.7	17.3	19.4	22.5	24.4	24.4	22.0	18.5	15.7	14.2	14.4	17.6
3	15.4	16.1	16.6	16.9	16.8	18.4	18.7	17.1	16.9	16.7	16.4	16.2	16.6	16.8	16.9	17.9	21.7	24.4	24.7	22.7	19.9	16.7	14.7	13.7	17.9
4	14.2	14.2	14.9	15.7	16.2	16.7	17.0	16.4	16.9	18.5	19.4	19.7	19.6	18.2	18.7	19.7	22.3	21.2	22.1	21.7	19.2	15.9	14.3	13.6	17.8
5	14.7	16.2	17.3	17.7	17.2	17.2	17.7	18.2	18.2	19.3	21.7	27.0	28.3	26.4	13.6	20.2	21.2	18.0	13.2	21.2	19.1	17.2	11.4	10.7	18.5
6 D	12.6	14.7	16.6	17.2	18.2	19.2	17.9	18.7	18.3	20.4	17.6	20.9	19.2	17.8	12.5	18.9	21.2	15.0	13.8	20.1	19.7	17.7	14.3	13.9	17.3
7 D	14.5	15.9	17.2	18.2	20.2	18.7	20.2	19.7	19.6	18.9	19.0	18.1	17.7	18.2	18.3	18.7	21.3	22.2	21.2	20.7	19.2	16.9	16.1	13.7	18.5
8	12.7	13.5	12.9	16.6	17.4	17.7	17.7	17.7	18.7	18.2	16.2	19.2	17.5	18.7	18.7	18.2	18.8	19.3	21.2	18.2	16.8	16.5	13.7	15.7	17.2
9 D	13.7	12.2	15.2	16.3	17.2	17.6	17.7	17.6	16.3	16.8	19.2	20.2	16.2	15.3	18.8	10.5	16.6	11.2	10.4	19.7	17.8	15.6	13.9	10.2	15.7
10 D	07.7	07.6	13.3	17.1	18.2	20.0	19.7	22.6	26.1	21.4	27.7	28.7	24.4	13.7	13.2	06.8	13.2	07.7	19.4	16.7	16.1	15.6	15.8	15.1	17.0
11	14.4	13.1	16.7	17.4	17.9	19.0	19.4	20.0	19.1	18.5	17.4	17.7	17.7	18.9	18.2	21.0	23.6	24.5	23.9	22.2	19.3	15.8	12.9	13.7	18.4
12	11.7	12.1	13.2	16.2	17.7	16.4	16.8	17.0	17.5	17.7	17.9	17.7	17.4	18.0	18.1	18.7	21.8	24.6	25.8	19.2	16.2	14.5	15.0	15.2	17.3
13	15.9	16.2	16.7	17.1	17.7	17.9	18.7	18.7	19.6	22.3	20.6	19.6	18.3	18.9	19.2	19.3	20.9	23.4	25.7	22.4	19.9	17.2	14.8	14.2	19.0
14	15.2	16.0	16.3	16.7	16.9	16.9	16.9	16.4	17.2	16.9	16.3	17.2	16.7	17.2	18.7	19.8	21.9	23.5	22.2	20.6	18.5	15.6	14.4	12.9	17.5
15	12.7	12.7	13.4	15.1	15.7	18.1	18.4	18.1	16.4	20.0	19.7	19.2	18.5	18.4	19.7	20.0	22.2	23.7	23.3	21.2	17.7	14.9	14.1	14.6	17.8
16	15.2	16.1	16.2	16.7	16.8	16.7	17.1	16.7	16.4	18.4	22.4	20.3	16.2	21.4	15.1	12.7	19.8	20.6	21.2	20.7	19.1	16.5	16.0	15.6	17.7
17	15.7	15.4	15.9	20.2	19.2	18.0	20.4	21.2	20.9	19.2	17.2	17.5	20.2	17.5	13.0	17.8	22.4	25.2	22.7	21.7	19.2	17.2	16.2	16.4	18.8
18	15.7	14.2	17.2	17.5	17.2	18.8	18.5	18.2	17.0	18.1	18.2	16.6	17.7	14.4	15.6	20.2	19.2	16.2	17.7	20.8	19.4	15.4	15.6	15.1	17.3
19	15.7	15.7	16.2	18.7	16.4	16.6	16.6	17.4	17.4	20.0	18.7	17.2	14.6	14.2	15.6	18.0	21.2	22.4	21.6	19.0	17.8	15.8	15.5	15.7	17.4
20 Q	15.4	15.7	15.9	16.2	16.2	16.2	16.6	16.2	16.1	16.2	16.5	16.5	16.7	16.5	17.5	18.4	21.7	23.6	22.2	20.9	18.9	16.2	15.1	14.7	17.3
21 Q	15.1	14.8	14.9	15.6	16.2	16.3	16.2	17.1	16.5	16.7	16.8	16.7	17.0	17.0	17.2	19.7	22.8	25.2	22.7	21.2	19.2	17.4	16.4	15.2	17.7
22	14.7	15.4	16.0	16.4	16.7	17.9	17.0	16.7	20.7	18.7	19.1	19.4	19.1	18.7	19.0	19.5	21.3	22.2	22.2	21.7	19.1	16.6	15.6	14.7	18.3
23	13.8	14.7	14.5	15.3	15.4	15.5	15.5	15.7	15.2	15.7	16.7	16.2	16.5	16.0	16.6	17.2	19.4	20.9	20.2	19.3	17.8	14.9	13.5	12.7	16.2
24 Q	14.4	15.2	15.5	15.7	15.7	15.7	15.9	16.6	16.3	16.3	16.2	16.2	15.4	16.2	16.6	17.6	19.2	21.1	20.7	19.7	18.5	15.7	13.7	13.2	16.6
25	14.4	14.9	15.5	15.9	15.8	16.0	16.1	16.0	16.1	16.7	16.7	17.9	21.1	15.7	15.4	20.9	20.7	15.0	13.4	15.2	16.9	15.2	16.1	16.5	16.4
26 D	15.6	15.4	15.7	15.8	16.6	16.2	16.2	16.2	15.8	16.2	17.2	15.7	13.2	22.2	20.3	21.4	21.6	20.1	23.1	23.2	22.2	19.2	17.2	16.7	18.0
27	16.4	16.2	16.1	16.1	16.0	16.0	15.6	16.5	18.6	17.7	18.1	15.5	15.6	16.1	17.4	18.7	22.7	26.4	22.8	19.2	16.7	15.1	13.3	12.9	17.3
28	12.4	13.3	13.1	15.2	16.5	16.9	16.9	16.7	16.4	16.9	16.5	18.5	18.4	17.9	16.7	18.2	22.5	23.3	23.8	22.7	16.6	12.7	11.7	13.2	17.0
29	14.7	15.2	15.8	16.2	16.1	16.3	16.7	17.4	17.2	21.2	21.6	19.1	17.6	16.7	14.5	16.6	21.1	24.2	26.8	21.5	18.7	13.7	12.0	12.0	17.6
30	12.4	13.6	14.6	15.4	15.0	15.2	16.6	17.4	16.9	16.7	17.9	18.2	19.0	17.8	18.2	19.7	21.8	23.2	22.9	20.7	17.3	14.3	13.1	13.2	17.1
31	13.2	13.8	13.5	16.2	15.6	23.2	18.7	19.3	17.3	21.0	19.2	19.7	18.8	18.9	18.7	20.7	24.2	25.4	22.8	20.4	17.1	15.3	13.7	13.2	18.3
Mean	14.2	14.6	15.5	16.6	16.9	17.4	17.5	17.6	17.5	18.2	18.4	18.6	18.0	17.6	17.0	18.2	21.0	21.3	21.3	20.6	18.4	15.9	14.5	14.1	17.5

VERTICAL INTENSITY
Mean values for periods of sixty minutes, Universal Time

Table 3 Victoria

z = 53,000 γ +

January 1959

Hour U. T. Day	0 to 1	1 to 2	2 to 3	3 to 4	4 to 5	5 to 6	6 to 7	7 to 8	8 to 9	9 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	Mean
1 Q	440	439	435	437	437	435	433	435	436	438	437	439	438	435	431	435	442	444	439	438	436	437	439	439	437
2 Q	437	437	435	433	433	427	426	426	424	423	423	423	420	418	414	414	420	418	415	412	415	416	420	423	423
3	418	415	416	420	421	420	422	420	419	417	416	415	415	416	419	421	425	419	410	410	413	411	414	419	417
4	426	428	427	427	428	428	426	427	426	427	425	423	420	423	427	427	432	429	424	423	415	410	417	421	424
5	424	426	423	421	421	423	421	421	421	419	419	401	389	382	396	414	426	422	428	430	429	428	436	460	420
6 D	458	451	454	453	454	454	451	449	443	437	411	417	421	412	396	412	417	408	411	418	421	424	433	438	431
7 D	445	448	456	453	455	458	458	452	447	438	437	433	436	435	436	439	442	438	433	433	428	428	439	441	442
8	443	449	451	453	450	445	442	439	437	434	407	403	418	428	433	431	431	421	425	427	427	425	430	439	433
9 D	436	446	447	444	443	441	438	436	433	431	432	424	403	377	369	375	348	356	381	408	410	424	433	452	416
10 D	482	477	470	464	462	473	451	448	440	395	381	311	309	304	327	335	368	369	405	427	438	451	456	462	413
11	470	471	464	457	453	454	454	455	456	452	445	440	437	434	429	424	430	435	439	442	439	436	440	440	446
12	446	450	449	445	443	442	439	437	437	437	438	435	433	431	433	434	437	433	428	433	432	432	434	434	437
13	433	433	435	435	437	437	436	434	428	415	418	425	425	426	429	436	441	438	433	433	433	431	429	430	431
14	433	431	431	431	431	429	428	428	425	423	426	428	429	428	427	428	427	428	426	423	420	417	419	425	427
15	431	433	436	439	443	449	449	446	438	426	429	430	427	426	429	431	434	437	435	433	429	426	427	430	434
16	431	429	430	430	430	429	428	429	423	414	413	371	357	374	397	391	406	410	410	412	416	413	422	431	412
17	433	434	439	443	448	444	443	435	430	424	410	400	391	395	378	377	390	403	416	396	425	428	428	427	418
18	426	425	428	435	438	444	436	430	421	419	421	413	409	415	416	421	418	416	418	420	416	413	419	427	423
19	427	428	429	431	434	431	430	427	426	421	425	426	423	419	428	426	434	430	428	431	428	419	418	418	426
20 Q	424	428	429	431	429	429	428	426	425	425	424	425	425	424	422	427	431	428	428	426	420	410	413	415	425
21 Q	417	418	420	423	423	423	423	422	420	420	422	423	423	422	422	426	430	424	422	419	417	415	413	415	421
22	421	421	424	425	426	424	422	423	421	419	420	422	420	420	420	422	425	425	422	421	417	411	412	417	421
23	424	425	428	428	426	423	424	424	426	423	418	414	416	419	420	424	426	422	418	419	418	414	408	410	421
24 Q	410	413	414	417	418	418	420	419	419	418	417	416	416	417	420	423	425	422	416	413	404	401	403	409	415
25	414	417	418	418	420	419	418	420	421	420	411	410	403	399	381	376	390	392	400	412	418	421	423	423	410
26 D	426	427	426	428	432	435	434	434	432	432	430	412	289	386	417	424	421	423	425	431	429	421	423	427	419
27	427	426	424	426	426	426	426	426	424	422	422	423	424	429	426	428	429	426	422	420	421	422	428	432	425
28	430	433	437	440	442	443	441	436	431	429	427	423	426	426	423	423	424	424	422	420	417	410	426	430	429
29	430	426	424	424	426	426	428	431	418	416	431	426	417	411	402	400	404	410	410	410	412	419	420	419	
30	425	429	432	430	432	434	440	440	436	432	428	427	427	428	427	431	434	430	425	421	417	415	421	428	429
31	430	427	426	430	431	432	431	435	432	408	424	427	423	423	426	431	434	430	425	419	417	416	420	430	426
Mean	433	434	434	435	435	435	434	433	430	424	422	416	410	412	414	416	420	419	421	422	422	420	425	429	425

HORIZONTAL INTENSITY
Mean values for periods of sixty minutes, Universal Time

Table 4 Victoria

H = 18,500 γ +

February 1959

Hour U. T. Day	0 to 1	1 to 2	2 to 3	3 to 4	4 to 5	5 to 6	6 to 7	7 to 8	8 to 9	9 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	Mean
1	283	284	290	284	277	282	288	285	292	294	286	291	295	296	290	299	301	283	260	249	250	252	264	278	281
2	288	290	291	295	283	284	256	264	271	264	269	275	285	283	291	276	292	264	251	242	243	253	263	258	272
3	250	282	284	282	280	278	279	284	285	284	282	282	293	292	278	290	303	298	274	252	254	260	249	231	276
4 D	248	262	269	267	274	268	264	276	282	277	286	284	283	305	296	292	276	266	290	257	210	230	238*	246*	269
5	253	274	276	275	283	257	266	274	276	276	272	278	279	290	267	274	269	276	252	236	230	241	246*	247	265
6	232	256	269	274	280	280	280	284	284	295	280	290	284	278	280	274	290	284	252	192	218	240	256	265	267
7	269	279	281	276	279	281	283	284	283	284	285	288	273	287	290	293	290	279	258	247	242	242	251	262	274
8	278	288	289	286	284	289	290	291	292	291	293	291	302	316	306	304	301	299	284	267	245	227	246	258	284
9	270	265	255	265	262	265	258	238	234	262	274	278	280	269	289	288	284	278	258	238	232	234	244	256	262
10 Q	270	282	284	285	286	286	284	284	284	284	287	289	290	294	295	294	290	278	256	242	240	244	266	280	278
11	286	292	295	290	286	298	302	303	298	253	235	265	271	288	296	277	264	266	256	241	236	230	244	251	272
12	267	283	280	267	262	277	278	278	281	278	284	293	289	285	293	277	281	272	246	242	233	232	239	226	268
13	264	286	289	289	286	288	286	288	291	293	287	292	293	285	278	280	280	271	238	198	243	244	245	262	273
14	268	275	280	273	283	277	269	270	273	285	286	284	235	246	308	255	247	278	262	238	232	234	242	257	265
15	262	263	270	270	266	247	250	293	274	241	251	256	240	285	293	282	254	233	232	264	250	242	240	252	259
16 D	275	264	271	286	259	257	260	271	264	270	278	281	284	258	242	276	234	239	223	194	208	204	198	206	250
17	219	227	243	250	245	243	240	238	255	256	252	258	262	267	264	258	261	252	241	240	237	238	239	244	247
18 Q	255	266	273	278	279	282	281	282	284	282	287	286	288	287	282	286	285	278	272	265	254	250	252	260	275
19	268	269	280	284	278	262	260	254	269	271	272	277	282	280	278	286	296	289	277	270	267	259	268	279	274
20 Q	287	290	291	289	286	285	286	286	292	290	296	296	297	294	294	294	288	278	264	253	252	258	270	284	
21 Q	282	292	296	296	295	295	291	288	291	293	297	302	303	301	298	296	298	288	278	252	245	246	252	265	285
22	284	302	304	296	278	263	286	293	292	292	285	296	303	307	305	302	302	293	282	277	277	268	272	268	289
23	276	288	286	290	286	275	279	275	270	253	264	267	292	295	293	290	283	273	264	260	258	254	258	263	275
24 Q	280	290	294	293	293	293	292	293	294	296	298	300	300	297	300	298	296	288	278	258	247	248	260	274	286
25 D	290	304	315	315	306	278	255	236	260	254	242	260	282	272	199	181	203	176	199	231	217	212	227	234	248
26 D	214	250	263	266	240	246	261	248	235	248	248	265	252	240	247	241	228	250	242	226	199	187	199	229	238
27	244	260	272	266	266	280	273	272	274	271	281	274	279	282	270	288	272	221	268	255	246	235	238	242	264
28 D	247	260	261	266	267	270	270	274	270	272	280	262	254	288	239	253	237	226	218	230	209	238	230	248	253
29																									
30																									
31																									
Mean	265	276	280	280	277	274	274	275	277	275	276	281	281	285	281	279	275	267	257	244	238	239	246	254	269

DECLINATION
Mean values for periods of sixty minutes, Universal Time

Table 5 Victoria

D = 22° 45.0'E +

February 1959

Hour U. T. Day	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	Mean
	to 1	to 2	to 3	to 4	to 5	to 6	to 7	to 8	to 9	to 10	to 11	to 12	to 13	to 14	to 15	to 16	to 17	to 18	to 19	to 20	to 21	to 22	to 23	to 24	
1	13.7	14.3	14.9	15.1	15.9	16.6	16.8	16.3	17.0	17.5	20.2	17.8	18.3	17.5	15.8	14.9	21.5	22.7	23.0	21.3	16.6	13.4	12.7	12.8	16.9
2	13.7	13.7	14.5	14.7	13.9	22.0	22.4	19.5	17.0	17.7	22.7	19.7	20.5	26.2	26.7	20.1	23.5	24.5	21.1	20.5	15.5	14.8	13.0	12.9	18.8
3	12.0	12.0	14.0	16.2	15.7	16.3	16.3	16.5	16.2	17.2	13.9	24.0	23.2	17.5	16.5	10.0	16.5	23.5	22.1	21.7	19.0	15.5	15.5	10.7	16.7
4 D	07.6	09.0	08.1	14.3	14.8	15.4	17.4	17.1	18.0	19.2	16.0	22.0	23.0	15.3	23.2	21.5	22.0	12.5	17.4	18.7	17.5	13.6	13.5	13.0	16.2
5	13.0	15.2	15.7	15.0	18.0	17.7	17.0	16.5	17.3	17.5	16.2	23.0	22.0	21.5	19.8	17.1	15.7	18.9	22.0	22.4	20.0	17.5	15.4	12.5	17.8
6	12.9	12.6	13.4	14.5	16.5	16.2	16.5	17.0	17.5	12.9	16.2	19.3	18.7	16.9	16.5	17.0	20.6	22.0	21.9	17.5	13.6	12.3	13.0	12.4	16.2
7	13.2	13.1	13.9	14.6	15.5	14.6	15.0	15.4	16.5	16.5	16.1	16.5	13.5	10.4	15.5	16.8	18.6	22.7	21.0	20.3	16.2	14.4	14.0	13.2	15.7
8	13.8	14.3	14.6	14.3	14.9	15.0	15.6	16.5	19.7	16.1	16.5	13.5	14.0	15.0	17.0	18.1	21.2	21.0	20.5	20.5	19.6	16.5	11.8	09.8	16.2
9	09.5	10.0	11.2	16.4	16.5	16.8	17.2	20.7	24.5	21.0	19.4	18.5	20.7	16.4	15.7	21.0	22.2	23.5	23.4	22.1	19.0	16.5	14.1	13.0	17.9
10 Q	12.0	13.8	13.8	14.6	15.2	15.4	15.4	15.5	15.5	15.4	15.3	15.6	16.1	16.0	16.2	18.0	19.2	21.0	20.4	18.5	15.0	12.9	10.0	10.6	15.5
11	12.0	13.5	14.3	14.1	14.0	14.1	14.2	14.3	15.5	31.8	27.0	26.5	18.5	21.5	18.8	19.0	23.2	22.2	20.5	18.0	15.8	14.3	12.0	12.5	17.8
12	13.0	13.7	15.4	14.4	19.5	16.5	15.2	15.0	14.5	14.8	15.2	14.0	17.7	17.4	16.8	12.9	18.6	22.7	19.4	17.3	16.0	15.1	12.2	12.2	15.8
13	13.5	13.9	14.7	15.8	16.5	16.5	15.8	15.7	15.5	14.8	10.5	12.5	18.4	19.3	10.7	14.7	20.4	21.5	18.5	10.7	12.2	13.1	14.0	12.3	15.1
14	12.3	13.5	13.0	17.0	16.0	16.5	18.2	18.0	15.8	15.5	13.9	13.5	03.5	03.0	19.5	17.0	05.8	08.8	13.8	16.9	14.9	14.5	14.5	14.3	13.7
15	14.3	14.3	14.9	15.6	22.1	18.9	24.7	21.3	25.7	24.5	29.0	23.7	16.7	16.6	21.8	23.2	19.7	16.0	09.0	12.6	17.7	17.8	16.0	14.5	18.8
16 D	13.1	13.8	19.5	15.5	15.2	20.5	22.9	21.7	17.7	15.5	14.0	16.5	17.2	08.8	16.4	23.3	19.5	06.0	18.5	12.5	11.0	15.2	11.2	14.2	15.8
17	15.1	14.7	19.5	17.7	16.8	16.7	16.7	18.5	18.4	17.3	19.4	19.5	19.4	17.1	16.4	19.1	20.0	22.6	22.2	19.5	19.3	18.4	17.0	16.5	18.2
18 Q	16.8	16.4	15.3	14.5	14.4	14.0	14.2	13.5	12.6	14.1	14.5	15.6	16.5	15.7	16.0	19.0	20.7	21.2	23.5	21.6	19.7	18.4	17.1	15.5	16.7
19	16.0	16.5	16.0	16.6	14.9	16.0	17.3	18.7	16.0	14.3	17.6	16.5	16.5	18.8	11.8	15.9	18.0	19.1	18.1	19.1	18.4	16.5	15.6	15.0	16.6
20 Q	14.4	14.4	15.0	15.5	15.5	15.3	15.0	15.3	15.3	15.5	15.5	15.7	15.7	16.0	16.4	17.0	18.9	19.3	19.5	17.8	16.0	14.6	13.5	13.5	16.0
21 Q	13.0	13.5	14.5	14.8	15.0	15.0	14.8	18.4	16.0	17.2	15.5	15.5	15.6	16.8	17.4	17.5	18.9	20.1	21.2	19.7	15.6	15.4	14.6	13.9	16.2
22	13.0	12.9	13.7	14.0	13.8	16.7	14.7	15.5	17.4	23.0	21.3	19.6	17.5	17.5	17.1	17.3	18.4	20.0	19.7	17.7	15.4	14.0	13.2	13.5	16.5
23	11.9	11.8	11.6	11.5	11.0	14.5	13.2	16.6	20.0	22.3	20.9	16.5	19.7	17.1	17.6	18.5	20.0	20.4	19.5	17.9	15.7	15.0	14.4	14.0	16.3
24 Q	13.0	13.7	14.6	15.0	15.0	15.0	14.9	15.0	15.2	15.3	15.5	15.5	16.3	16.0	17.0	18.9	20.5	21.5	20.6	19.5	18.0	15.4	13.4	12.6	16.1
25 D	12.6	12.6	13.2	14.0	14.7	14.6	18.7	27.2	19.0	20.0	20.1	19.2	17.8	13.4	04.5	03.0	22.7	04.5	09.9	14.5	16.0	14.0	14.5	13.7	14.8
26 D	13.1	11.5	09.7	10.0	09.5	17.5	17.4	41.0	22.7	17.0	18.5	17.0	18.8	16.8	15.4	19.3	19.0	21.5	20.0	21.6	20.0	16.0	10.5	12.0	17.3
27	12.1	14.5	15.0	14.7	18.2	16.7	17.0	18.2	18.2	18.9	23.3	24.5	20.3	18.3	17.7	21.5	17.8	21.5	14.0	16.9	17.4	16.0	15.5	13.1	17.5
28 D	11.5	12.5	11.8	20.2	14.5	15.7	16.2	17.1	17.0	16.5	19.0	19.1	10.0	18.2	12.6	11.9	11.7	18.7	14.0	12.0	15.0	15.0	13.5	08.8	14.7
29																									
30																									
31																									
Mean	12.9	13.4	14.1	15.0	15.5	16.3	16.8	18.3	17.6	17.8	18.0	18.2	17.4	16.5	16.6	17.2	19.0	19.3	19.1	18.2	16.7	15.3	13.8	13.0	16.5

VERTICAL INTENSITY
Mean values for periods of sixty minutes, Universal Time

Table 6 Victoria

Z = 53,000 γ +

February 1959

Hour U. T. Day	0 to 1	1 to 2	2 to 3	3 to 4	4 to 5	5 to 6	6 to 7	7 to 8	8 to 9	9 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	Mean
1	432	429	429	429	432	435	432	430	427	407	404	419	420	415	414	418	422	418	421	425	424	421	425	428	423
2	431	429	428	428	429	433	438	446	442	414	424	432	408	379	392	404	408	405	405	409	412	411	417	419	418
3	425	436	435	435	436	436	433	432	430	429	409	391	398	416	409	394	399	412	414	416	419	417	418	417	419
4 D	429	442	454	455	457	459	457	451	440	432	404	400	392	360	382	419	420	408	404	398	397	407	416*	425*	421
5	437	436	435	438	448	454	461	452	439	432	406	407	401	371	361	379	392	391	399	410	416	422	424	428	418
6	427	433	435	439	438	435	434	430	430	413	397	403	416	417	415	411	424	424	414	410	425	423	424	426	423
7	427	429	432	434	434	434	434	432	429	427	424	422	415	405	412	416	417	419	419	421	414	414	418	422	423
8	426	428	427	429	431	432	433	433	429	429	427	420	414	412	405	411	420	421	419	420	415	418	421	424	423
9	439	436	447	455	456	454	456	453	447	417	424	424	418	418	417	418	427	430	425	422	420	422	423	425	432
10 Q	416	419	420	420	420	419	419	419	417	417	416	416	413	409	409	408	411	413	408	403	405	407	413	416	414
11	424	425	424	424	424	426	426	427	425	390	335	366	356	336	359	381	413	418	419	420	425	427	431	437	406
12	440	439	434	437	447	441	436	434	427	421	387	391	413	419	418	412	417	415	410	417	419	426	429	431	423
13	433	431	427	425	424	424	423	424	423	421	407	403	402	395	365	374	405	412	406	405	420	422	424	431	414
14	435	435	439	447	447	451	457	455	437	433	428	428	370	272	348	369	352	356	381	397	409	418	428	433	409
15	434	437	443	450	468	481	500	499	422	383	366	408	386	357	378	391	383	372	377	377	383	395	403	412	413
16 D	416	421	433	429	434	452	459	448	442	439	425	425	423	386	305	355	362	360	368	389	415	432	458	490	415
17	489	488	493	474	466	463	462	455	416	428	424	411	398	406	418	428	430	431	432	432	432	434	434	434	441
18 Q	434	435	435	433	431	430	430	430	429	429	431	430	429	429	429	430	431	432	431	429	426	426	423	422	430
19	425	426	428	427	427	435	439	438	434	424	418	416	399	393	393	395	415	423	426	430	431	430	427	426	422
20 Q	424	425	426	426	428	424	423	422	422	421	422	422	422	421	422	424	428	428	418	417	417	419	421	418	422
21 Q	424	428	429	429	428	429	428	428	422	424	426	426	425	426	425	427	428	430	427	419	420	423	421	424	426
22	428	429	428	427	422	442	442	435	438	409	406	409	418	425	425	425	425	430	411	409	407	405	409	411	421
23	414	421	425	429	439	442	444	450	422	408	405	370	402	424	427	429	427	424	420	416	419	421	421	421	422
24 Q	419	422	423	422	422	423	424	423	421	422	422	418	416	414	414	416	421	423	422	419	416	411	412	413	419
25 D	417	417	417	415	415	418	436	446	440	416	356	347	329	298	222	151	281	337	356	380	410	422	436	443	375
26 D	416	446	452	474	499	495	498	474	443	452	397	413	410	401	427	417	422	428	425	424	430	444	446	452	441
27	450	449	449	448	456	430	442	445	442	439	431	417	419	420	407	420	402	391	420	421	425	425	431	437	430
28 D	438	441	445	459	451	443	441	440	437	433	417	398	323	317	327	326	351	381	399	410	413	437	439	452	409
29																									
30																									
31																									
Mean	430	433	436	437	440	441	443	441	431	422	409	408	401	391	390	395	405	408	410	412	417	421	425	429	420

HORIZONTAL INTENSITY
 Mean values for periods of sixty minutes, Universal Time

Table 7 Victoria

H = 18,500 γ +

March 1959

Hour U. T. Day	0 to 1	1 to 2	2 to 3	3 to 4	4 to 5	5 to 6	6 to 7	7 to 8	8 to 9	9 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	Mean
1 D	239	251	253	247	243	249	248	237	252	256	249	269	282	289	264	212	264	258	259	243	224	226	221	231	249
2	248	272	274	268	267	277	271	269	273	267	252	265	253	276	261	282	292	273	246	222	205	217	227	254	259
3	268	261	269	272	263	282	279	279	303	284	283	291	282	289	297	295	271	243	259	247	229	228	239	246	269
4	271	274	281	279	282	285	299	296	287	283	279	278	285	293	291	289	277	261	228	219	215	239	253	263	271
5	278	276	281	279	272	275	279	284	293	287	290	287	287	291	288	293	290	257	245	249	241	239	254	267	274
6	283	280	273	283	289	287	288	287	292	293	294	295	297	298	295	290	281	272	257	251	249	253	265	280	280
7	288	291	293	291	295	297	297	295	299	299	303	305	299	296	299	301	293	283	281	277	267	253	254	265	288
8	271	274	269	277	285	277	277	283	283	289	293	296	298	297	299	297	291	292	281	263	255	248	251	260	279
9 Q	273	282	288	289	289	291	295	295	297	297	300	303	303	305	303	296	293	287	277	270	263	259	265	274	287
10 Q	286	291	293	296	297	298	300	301	302	306	310	313	314	314	315	313	309	297	285	275	269	266	273	284	296
11 Q	294	302	307	307	307	307	305	302	302	311	315	319	320	321	321	321	317	307	285	265	263	269	271	281	301
12	303	287	296	297	295	288	282	294	303	307	301	302	315	315	315	308	302	294	269	258	255	256	259	268	290
13	291	301	294	288	292	297	295	293	297	301	303	307	305	302	303	309	305	291	274	259	250	227	238	257	287
14	285	298	301	299	292	296	287	292	292	295	298	302	309	306	307	308	301	283	265	248	245	245	251	264	286
15	281	295	295	294	300	307	308	309	307	307	308	316	305	308	311	311	307	296	275	253	245	245	249	261	291
16 Q	277	292	301	301	301	301	304	305	308	311	311	311	311	310	313	313	307	287	267	253	250	257	259	272	293
17	288	299	306	299	300	299	299	301	308	308	308	311	307	309	311	312	309	297	287	275	269	263	271	278	296
18	291	299	300	303	307	314	312	311	311	307	306	309	309	309	310	313	309	297	277	263	252	253	279	277	297
19	296	309	309	309	310	309	313	315	317	319	323	320	319	319	319	321	315	303	291	279	271	265	269	281	304
20	293	301	304	301	303	303	309	310	309	311	313	317	316	313	313	310	305	300	292	278	267	265	271	283	299
21	295	300	304	307	309	311	311	312	312	311	309	315	315	315	313	311	295	289	275	267	261	265	264	279	298
22 Q	291	299	303	303	303	305	307	309	312	317	315	315	315	315	317	315	306	297	286	273	260	259	269	289	299
23	303	307	301	296	300	293	298	309	307	307	313	316	318	314	310	301	286	277	263	249	245	256	271	293	293
24	304	305	299	291	300	299	303	305	306	311	319	323	317	314	309	301	289	261	249	259	264	267	283	292	295
25	303	311	315	304	277	277	294	270	279	293	297	299	306	312	296	263	285	257	247	236	227	261	273	273	281
26 D	279	281	279	282	283	285	286	289	297	308	296	252	205	171	203	267	242	203	186	204	195	217	212	257	249
27 D	302	249	287	282	342	207*	182	081	127*	122	213	162	203	117	-028	-153	-018	019	085	091	162	237	258	240	157
28 D	245	240	232	245	243	232	243	250	250	247	245	219	222	238	173	194	243	173	117*	162*	182*	152*	190	300	218
29 D	258	251	269	230	229	242	241	232	240	270	260	230	205	206	219	192	185	221	224	207	199	214	235	246	229
30	259	264	259	259	262	265	268	267	266	274	270	261	276	274	265	263	265	263	258	245	236	245	242	252	261
31	264	278	281	275	281	280	277	274	272	282	288	289	277	276	282	273	261	241	227	231	236	231	243	266	266
Mean	281	285	288	286	288	285	286	282	287	290	292	290	290	287	280	275	277	264	252	244	240	244	254	269	276

DECLINATION
Mean values for periods of sixty minutes, Universal Time

Table 8 Victoria

D = 22° 45.0' E +

March 1959

Hour U. T. Day	0 to 1	1 to 2	2 to 3	3 to 4	4 to 5	5 to 6	6 to 7	7 to 8	8 to 9	9 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	Mean
1 D	10.2	07.1	11.8	12.8	20.3	15.0	21.7	26.8	23.2	18.5	16.5	19.9	20.2	17.8	18.8	10.3	11.8	17.8	18.2	18.8	18.0	16.4	13.6	09.5	16.5
2	11.3	11.8	12.7	12.7	18.6	17.3	19.3	19.8	18.8	12.8	15.7	24.4	22.1	14.3	12.8	14.9	19.3	21.8	20.7	18.5	19.3	14.8	13.5	12.7	16.7
3	12.0	13.5	15.4	14.3	24.0	16.3	15.8	17.8	18.7	16.6	17.8	16.3	13.8	17.3	17.8	20.3	20.9	18.8	17.8	20.1	16.8	14.4	11.9	10.6	16.6
4	09.9	11.8	13.0	13.8	14.8	15.8	19.6	18.0	16.4	16.8	17.9	17.3	12.4	16.3	18.3	20.0	20.8	20.8	21.3	16.3	14.8	13.8	15.3	14.6	16.2
5	11.8	11.8	12.5	10.4	10.3	13.7	15.2	17.8	17.0	18.0	17.5	16.4	16.8	17.0	17.8	19.3	20.5	22.4	17.0	17.3	16.6	13.5	10.4	10.9	15.5
6	10.3	11.2	11.5	13.0	14.3	15.4	15.9	17.0	16.2	15.8	16.3	15.8	14.8	15.3	17.6	20.0	22.3	23.2	21.6	19.6	16.9	14.8	13.6	12.8	16.0
7	12.8	13.3	13.4	13.8	13.9	14.3	15.5	15.0	15.2	15.4	16.0	18.0	21.1	20.5	20.7	22.3	22.2	21.4	17.8	14.8	12.7	11.1	09.8	09.3	15.8
8	09.3	08.5	10.8	12.8	15.3	15.0	16.3	16.4	16.8	17.4	16.4	16.6	16.6	17.0	17.3	19.6	20.1	20.2	21.4	20.7	18.0	15.8	13.3	11.3	15.9
9 Q	10.5	10.8	11.3	12.2	12.7	14.0	14.8	14.8	14.8	15.8	17.0	16.0	16.4	16.7	18.1	17.4	18.8	20.8	20.7	18.5	16.8	15.3	14.0	13.2	15.5
10 Q	12.6	13.2	13.5	13.8	13.9	13.9	14.1	14.6	14.8	14.8	14.9	15.3	16.4	16.8	17.8	19.1	21.0	22.2	22.5	20.5	18.0	15.5	13.1	11.6	16.0
11 Q	11.3	12.0	12.7	13.1	13.4	13.6	13.6	14.3	15.3	16.8	15.6	15.3	15.4	16.3	17.8	19.6	21.3	23.1	24.3	19.9	15.3	12.8	10.6	09.6	15.5
12	08.8	11.3	12.7	14.3	14.4	13.7	14.3	14.4	14.6	16.9	19.1	15.2	17.1	18.2	18.8	17.0	20.8	20.2	20.5	15.5	15.1	14.5	12.5	12.8	15.5
13	12.0	12.6	13.8	14.4	14.5	14.3	14.8	15.0	15.8	15.8	14.9	14.3	13.8	12.8	15.3	20.3	23.0	22.8	24.1	22.3	18.8	14.8	10.9	10.5	15.9
14	10.0	11.5	13.3	14.2	13.8	14.5	19.5	17.0	16.6	16.2	15.0	11.9	13.7	15.0	15.3	19.6	22.4	23.7	24.2	21.3	18.3	14.8	12.3	10.8	16.0
15	10.5	10.8	14.0	15.2	13.5	13.8	14.0	14.4	14.8	15.7	15.8	13.3	15.3	15.9	17.2	19.6	22.3	24.2	24.8	22.3	18.5	15.1	12.8	10.0	16.0
16 Q	10.7	11.3	12.7	13.8	14.1	14.3	14.8	15.0	14.8	14.8	15.3	15.3	15.6	16.3	17.6	19.8	22.8	24.5	25.2	20.6	16.4	12.7	10.6	09.4	15.7
17	09.6	10.3	12.3	13.7	14.6	14.8	16.3	15.3	15.1	15.2	15.3	15.2	15.3	15.7	16.5	19.3	22.1	24.6	22.9	21.8	18.7	15.8	13.3	12.3	16.1
18	11.8	13.0	13.8	14.3	14.8	14.0	13.7	13.5	12.3	12.5	13.5	13.9	13.3	14.3	17.2	19.3	22.2	24.9	24.7	20.8	17.1	15.4	12.5	13.5	15.7
19	11.8	11.9	13.2	13.8	14.3	14.5	14.8	15.3	16.0	15.8	17.6	16.8	16.1	15.9	16.6	17.8	21.0	21.6	21.7	18.7	17.3	14.8	12.8	11.6	15.9
20	11.4	11.7	13.0	13.8	14.0	14.3	14.7	16.4	15.8	16.7	16.4	15.8	15.7	16.8	17.3	18.8	21.3	21.3	19.3	17.6	15.3	13.8	11.9	11.4	15.6
21	11.0	11.8	12.3	13.2	13.3	13.8	14.2	14.5	15.7	18.3	16.0	15.1	15.7	15.8	17.6	19.8	21.0	20.3	20.8	17.1	13.8	12.3	11.4	10.9	15.2
22 Q	11.8	12.3	12.6	13.0	13.7	13.7	13.8	14.0	14.8	15.0	16.7	15.8	16.1	16.8	17.8	19.4	22.5	21.5	19.6	17.5	15.3	13.0	10.7	09.8	15.3
23	10.3	10.6	11.7	12.3	13.3	14.0	15.0	13.3	15.8	18.0	15.3	14.8	14.8	16.0	19.0	21.6	22.9	21.8	22.7	18.3	14.4	12.0	11.2	10.4	15.4
24	11.3	11.5	10.6	12.7	13.4	14.3	14.8	14.6	15.0	15.3	14.5	15.0	17.1	18.5	20.6	22.1	23.3	23.8	18.7	13.1	11.5	10.8	11.3	11.8	15.2
25	12.8	12.0	12.8	11.5	10.0	10.7	11.3	14.7	15.7	15.3	15.3	16.0	17.4	18.3	22.1	23.6	15.6	20.1	21.6	16.5	07.9	10.5	12.4	13.6	14.9
26 D	14.3	14.2	13.5	13.8	14.5	14.6	14.5	14.6	14.6	15.2	23.1	35.3	32.8	28.8	29.8	27.8	30.8	31.3	22.8	12.4	09.8	03.9	04.3	02.3	18.3
27 D	05.8	05.2	13.8	06.8	00.8	14.8	34.8	32.8	14.8	21.6	25.1	34.3	19.3	30.2	21.8	04.8	21.8	06.8	13.4	08.0	09.0	12.2	12.6	12.8	16.0
28 D	13.5	15.6	16.6	15.2	25.3	17.8	17.1	15.6	19.8	27.3	23.3	09.8	20.5	23.9	15.5	11.3	20.3	28.5	11.8	11.8	14.8	11.3	10.9	07.3	16.9
29 D	04.8	04.9	07.3	05.8	12.7	16.5	33.0	18.6	20.0	19.3	16.8	23.5	18.4	09.3	16.3	17.6	17.8	14.9	20.8	20.8	18.3	15.8	14.5	13.0	15.9
30	11.9	12.4	14.8	19.8	16.4	17.3	16.8	18.3	16.5	15.4	18.8	15.8	14.8	17.7	18.8	20.3	20.8	20.7	22.2	22.0	18.0	14.6	12.9	10.8	17.0
31	10.3	11.5	14.2	12.3	13.5	14.6	15.8	16.3	17.5	19.6	18.2	17.7	15.7	15.7	15.3	16.8	20.5	21.1	20.4	19.3	14.0	10.3	08.6	07.4	15.3
Mean	10.8	11.3	12.8	13.1	14.4	14.7	16.8	16.6	16.2	16.7	17.0	17.3	16.9	17.3	18.1	18.7	21.1	21.6	20.7	18.1	15.7	13.4	11.9	10.9	15.9

VERTICAL INTENSITY
Mean values for periods of sixty minutes, Universal Time

Table 9 Victoria

$Z = 53,000 \gamma +$

March 1959

Hour U. T. Day	0 to 1	1 to 2	2 to 3	3 to 4	4 to 5	5 to 6	6 to 7	7 to 8	8 to 9	9 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	Mean
1 D	464	466	458	473	483	489	485	449	443	442	390	401	412	424	398	351	378	398	411	414	416	428	437	444	431
2	451	456	459	456	468	456	458	461	452	410	380	378	393	408	400	408	417	412	411	414	416	436	438	444	428
3	448	447	450	447	454	447	450	445	431	417	425	417	405	414	426	429	424	429	432	423	421	432	437	437	433
4	443	438	437	436	436	439	437	417	417	418	418	409	394	407	421	421	417	417	414	417	415	420	423	429	423
5	433	437	442	446	452	459	451	442	433	425	425	425	423	419	424	422	415	410	409	410	413	417	421	425	428
6	430	435	439	438	436	435	436	433	429	427	425	424	422	420	422	428	430	425	422	419	418	415	415	415	427
7	420	423	427	427	428	429	429	429	429	427	422	414	409	411	416	422	420	411	408	406	404	409	414	420	419
8	432	438	447	445	445	445	445	441	437	432	429	426	424	423	424	425	421	419	419	412	409	410	411	416	428
9 Q	420	421	426	428	428	429	426	427	426	425	424	421	420	421	422	424	422	412	405	400	399	406	412	410	419
10 Q	412	414	418	418	418	421	419	419	418	418	420	417	417	417	419	419	414	411	410	411	408	405	403	405	415
11 Q	409	414	417	416	415	417	418	420	418	413	412	412	411	409	411	416	416	415	406	403	410	409	405	405	412
12	414	415	417	417	419	424	431	429	426	422	411	405	377	391	404	404	403	401	400	401	404	413	415	417	411
13	420	422	421	422	424	425	422	422	422	419	413	405	397	390	395	412	416	419	415	409	401	406	412	418	414
14	420	420	420	420	420	420	421	422	416	416	414	408	404	409	411	415	413	410	403	399	394	395	398	405	411
15	413	418	419	420	418	417	418	418	417	417	416	404	406	411	414	418	418	415	410	406	403	406	411	412	414
16 Q	416	419	417	415	413	414	415	414	411	408	407	407	408	409	412	417	417	411	406	403	397	399	399	403	410
17	411	417	421	415	417	418	417	419	419	417	417	414	414	417	417	421	422	419	414	408	406	406	408	406	415
18	408	416	417	415	414	414	411	412	413	413	416	417	417	418	421	424	426	421	412	401	395	398	401	405	413
19	411	414	416	414	413	412	414	415	416	416	412	414	415	417	419	421	417	416	406	397	391	389	391	399	410
20	404	408	414	413	411	412	412	411	412	412	411	411	410	408	412	413	410	402	400	397	393	390	393	402	407
21	407	413	416	416	412	410	410	410	410	408	411	407	408	410	412	414	413	406	393	390	396	394	393	396	406
22 Q	401	404	408	408	409	412	412	413	413	409	407	408	409	410	414	415	411	406	401	404	404	402	399	403	408
23	408	415	415	415	415	418	422	418	414	409	410	409	408	405	411	415	411	399	389	385	390	396	397	402	407
24	406	408	412	414	418	418	419	418	416	414	411	401	405	410	412	413	412	405	396	388	387	397	403	405	408
25	406	408	412	416	428	432	435	442	439	431	425	419	417	416	411	401	372	367	375	384	398	418	424	421	412
26 D	416	414	412	413	415	415	417	418	419	417	391	331	288	224	265	377	423	423	401	402	413	430	481	511	396
27 D	544	498	524	550	592	295	290	308	310*	245	388	358	328	230	060	120	312	328	403	427	492	533	550	505	383
28 D	468	454	446	456	470	478	480	482	485	455	436	343	313	372	271	256	332	382	390*	415*	440*	470*	518	565	424
29 D	550	516	514	510	493	525	478	440	448	384	363	333	322	335	339	361	399	413	423	426	430	436	440	438	430
30	439	444	450	454	451	448	418	432	425	382	408	399	402	423	423	426	425	424	428	430	430	432	428	428	427
31	431	442	450	445	442	440	443	442	437	414	420	419	413	407	421	420	426	424	420	421	422	425	434	445	429
Mean	431	431	434	435	437	429	427	425	423	412	411	402	397	396	391	398	408	408	408	407	410	417	423	427	416

HORIZONTAL INTENSITY
Mean values for periods of sixty minutes, Universal Time

Table 10 Victoria

H = 18,500 γ +

April 1959

Hour U. T.	0 to 1	1 to 2	2 to 3	3 to 4	4 to 5	5 to 6	6 to 7	7 to 8	8 to 9	9 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	Mean
1	270	278	280	274	275	278	244	261	278	281	283	285	283	282	280	278	270	254	240	232	228	231	244	258	265
2	271	275	282	284	284	286	288	290	287	290	284	291	286	285	288	286	281	268	260	256	255	246	252	259	276
3	270	282	284	274	276	287	285	292	283	283	289	288	294	290	290	284	267	258	249	240	241	252	264	264	274
4	266	281	285	280	290	290	295	298	297	290	300	298	294	294	294	291	281	276	264	258	260	258	264	266	282
5 Q	278	285	287	296	290	292	295	299	302	306	306	304	306	308	308	303	295	279	264	258	260	262	265	270	288
6	292	288	290	295	301	303	304	303	304	310	311	312	311	316	318	307	286	266	259	253	251	254	264	276	291
7	291	294	298	296	300	304	301	297	301	302	302	295	290	300	302	299	280	264	257	253	246	261	268	264	286
8	282	290	286	266	280	285	290	290	280	284	292	301	318	302	305	284	264	231	250	253	246	245	230	257	275
9 D	294	292	293	260	271	278	258	266	258	273	292	291	297	302	300	297	283	272	258*	268	272	252	254	273	277
10 D	287	284	288*	258	282	295	292	282	283*	293*	286	288	198*	178*	198*	218*	213*	229	237	235	212	219	230	244	251
11	244	242	258	268	259	254	264	258	260	271	274	283	298	298	297	293	286	270	262	256	238	232	234	250	265
12	264	294	291	289	290	288	293	292	300	311	304	306	295	301	307	306	296	274	255	248	250	258	248	269	285
13	277	284	294	298	302	304	304	315	308	310	311	311	314	311	308	304	297	286	283	277	274	260	266	270	294
14	285	301	298	295	302	300	296	299	305	311	311	314	313	318	322	324	322	311	292	282	276	271	272	289	300
15	292	286	290	294	296	298	298	305	306	308	311	312	311	306	306	300	292	288	268	274	273	270	274	278	293
16	293	287	294	296	298	297	302	310	306	310	318	313	310	309	308	306	304	294	288	282	281	284	281	283	298
17	295	304	311	310	309	312	310	316	321	314	312	298	306	302	299	306	306	294	277	260	258	260	262	287	297
18 Q	296	292	298	304	305	308	310	312	314	314	317	322	316	318	320	315	314	302	298	290	286	279	278	285	304
19 Q	294	306	314	313	314	314	313	316	320	320	318	316	320	322	324	318	310	297	289	286	279	274	274	276	305
20 Q	289	300	308	309	314	317	313	316	318	323	322	320	320	321	324	325	308	288	280	281	280	282	288	293	306
21	298	305	301	300	294	300	304	312	311	296	307	307	308	310	307	303	302	298	288	284	280	276	284	296	299
22 Q	302	309	310	309	309	310	312	312	314	316	318	316	318	320	322	317	302	284	271	271	274	276	282	290	303
23 D	304	310	317	316	314	316	316	318	319	325	341	346	355	347	350	304	280	239	220	223	198	192	233	258	293
24 D	262*	264*	268	276	284	290	287	280	288	296	297	284	270	284	290	276	246	240	232	221	221	215	232	254	265
25	274	282	293	294	294	280	284	284	297	306	300	298	294	297	300	294	267	244	259	258	257	269	275	271	282
26	281	316	294	289	293	297	301	301	302	306	308	306	297	294	300	299	290	268	275	278	258	242	239	269	288
27	297	290	295	292	282	291	290	292	291	295	296	298	286	295	292	282	266	251	256	263	269	258	270	287	283
28	288	296	295	286	292	293	303	302	302	286	304	303	298	288	278	276	277	269	264	269	270	269	265	267	285
29 D	294	293	285	304	296	304	302	300	301	292	300	295	300	288	298	282	226	223	215	251	256	256	271	272	279
30	285	288	288	289	285	287	305	304	300	299	296	292	296	291	261	265	246	229	223	242	252	256	258	262	275
31																									
Mean	284	290	292	290	293	295	295	297	299	301	304	303	300	299	300	294	282	268	261	260	257	255	261	271	286

DECLINATION
Mean values for periods of sixty minutes, Universal Time

Table 11 Victoria

D = 22° 45.0' E +

April 1959

Hour U. T. Day	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	Mean	
	to 1	to 2	to 3	to 4	to 5	to 6	to 7	to 8	to 9	to 10	to 11	to 12	to 13	to 14	to 15	to 16	to 17	to 18	to 19	to 20	to 21	to 22	to 23	to 24			
1	06.6	07.5	10.5	08.9	12.3	11.7	15.8	20.9	18.4	16.3	15.8	16.3	16.0	16.8	18.2	19.8	21.0	20.8	19.2	16.3	13.3	11.2	10.4	10.5	14.8		
2	11.2	12.3	13.1	14.1	14.7	14.8	14.5	14.7	15.3	16.1	16.6	16.7	18.6	19.3	20.0	20.4	22.2	21.8	19.1	17.5	15.5	13.0	10.8	09.3	15.9		
3	09.6	09.3	10.2	10.8	12.8	13.5	14.0	16.0	17.3	18.1	14.3	10.9	16.3	18.8	20.5	21.9	20.8	18.6	16.8	14.8	12.8	11.3	09.6	09.1	14.5		
4	09.0	09.5	10.6	13.8	13.7	14.0	14.4	14.5	15.1	16.4	17.0	16.9	16.9	17.8	19.1	20.5	21.1	18.6	18.5	14.5	12.5	10.7	09.5	10.2	14.8		
5 Q	11.0	11.0	12.7	13.2	12.9	13.6	13.7	14.3	15.1	15.7	16.0	16.0	15.7	17.5	19.0	21.7	22.8	22.6	20.0	15.4	13.0	11.6	10.7	08.8	15.2		
6	09.5	12.0	13.1	13.5	13.1	13.4	14.0	14.5	15.2	15.4	15.7	15.4	15.5	16.7	18.5	22.8	24.5	23.5	20.8	18.1	15.1	11.7	10.2	10.0	15.5		
7	09.5	10.7	12.0	13.2	13.5	13.4	12.9	13.1	14.0	14.4	15.9	19.0	17.0	18.2	20.5	23.2	26.5	24.5	21.2	18.9	13.7	10.7	08.8	07.2	15.5		
8	05.7	06.9	05.6	09.6	13.6	14.1	14.6	17.5	20.6	21.1	20.6	19.1	11.8	18.0	20.1	24.7	25.3	22.1	16.5	17.3	13.1	10.8	07.9	05.6	15.1		
9 D	03.6	07.6	01.7	04.0	13.8	20.0	24.1	20.6	24.1	27.0	18.4	17.1	16.1	18.8	20.3	22.2	24.0	23.6	22.2	17.0	14.1	11.0	07.5	07.0	15.9		
10 D	09.1	11.2	11.6	11.1	13.2	13.5	18.0	20.6	27.1	29.1	09.1	16.1	15.6	14.1	30.6	33.6	19.1	19.6	15.1	18.4	13.7	10.9	10.6	12.6	16.8		
11	14.0	16.2	17.6	19.1	18.3	18.4	15.6	17.9	24.6	20.3	16.2	13.1	18.1	21.1	24.5	27.6	27.6	26.8	25.6	20.8	17.3	12.9	10.7	07.1	18.8		
12	10.9	11.1	12.6	13.6	13.6	13.6	15.1	14.3	14.5	15.1	16.0	14.6	15.1	16.8	19.5	22.3	24.2	24.4	21.5	17.6	14.3	12.5	10.8	08.6	15.5		
13	09.8	10.9	12.1	13.6	13.7	14.1	14.1	19.6	17.4	14.7	14.6	14.1	14.6	17.9	21.3	22.8	24.1	24.4	20.6	18.6	14.8	12.3	09.6	08.6	15.8		
14	09.6	11.6	14.5	14.1	14.0	15.1	16.1	19.0	17.7	15.6	15.6	16.1	17.1	17.5	19.2	20.7	23.5	23.9	22.2	18.9	16.4	13.1	11.1	07.3	16.2		
15	05.6	09.6	11.6	13.5	13.9	14.2	14.5	14.6	15.0	15.1	14.8	14.5	15.1	17.3	18.1	20.6	21.2	19.8	19.8	13.6	13.6	12.6	11.5	11.6	14.6		
16	11.6	13.9	14.3	14.3	15.5	15.6	15.1	17.1	16.6	15.8	15.0	16.4	16.9	17.8	19.1	20.5	22.6	22.1	19.5	17.5	14.6	12.1	11.3	10.8	16.1		
17	10.1	10.6	12.1	13.9	14.1	14.3	15.2	14.6	15.6	16.6	18.3	18.7	16.7	14.6	16.7	19.6	21.1	21.6	21.6	17.8	14.1	12.6	10.4	08.5	15.4		
18 Q	09.1	10.6	12.6	13.1	13.7	14.1	14.5	14.8	15.3	15.4	15.3	15.3	16.2	16.8	18.0	20.1	21.8	23.1	21.6	18.4	16.1	14.4	12.1	10.1	15.5		
19 Q	10.1	11.0	12.6	13.8	14.2	14.2	14.6	14.5	15.1	16.5	15.7	15.5	15.1	16.9	18.4	21.1	23.5	23.1	18.8	16.8	15.6	14.1	12.6	11.8	15.6		
20 Q	11.2	11.8	12.8	14.0	13.8	14.0	14.3	15.1	15.2	15.3	16.6	16.3	15.7	15.9	20.8	25.3	26.8	25.3	20.3	17.1	15.1	13.8	12.4	11.4	16.3		
21	11.4	11.1	13.7	14.1	15.9	15.9	14.8	14.7	16.1	16.3	19.3	17.6	17.1	18.8	20.6	20.7	22.1	21.3	18.1	14.7	13.7	12.3	11.6	11.3	16.0		
22 Q	12.1	11.6	13.1	13.6	13.5	13.6	13.6	14.1	14.3	14.4	14.6	15.8	17.1	18.4	20.1	22.3	24.1	21.8	18.5	14.6	12.6	11.5	10.1	09.8	15.2		
23 D	10.0	10.5	11.2	12.1	12.6	12.7	12.9	13.3	13.9	14.6	14.8	15.9	15.6	19.8	22.5	27.1	28.8	25.3	22.9	16.4	14.9	04.5	06.1	07.2	15.2		
24 D	07.7	10.2	10.9	11.6	13.4	12.7	10.8	12.7	15.1	17.6	17.8	18.6	18.1	26.3	29.1	25.5	21.1	17.3	15.5	13.2	11.6	09.1	09.1	09.6	15.2		
25	10.1	12.2	14.5	13.6	14.5	15.6	16.6	14.9	13.6	15.1	16.1	13.6	13.6	17.1	18.5	20.1	20.1	13.5	12.6	16.6	12.6	11.0	10.1	11.1	14.5		
26	10.1	09.0	09.8	13.8	15.6	16.4	15.6	16.8	15.4	17.1	16.6	16.3	17.4	17.6	17.3	18.4	20.6	18.5	15.9	15.6	17.5	15.1	12.6	09.1	15.3		
27	08.6	09.1	09.1	09.9	12.1	15.6	18.4	17.1	16.3	16.6	15.1	17.1	20.1	20.1	21.3	20.5	18.8	17.3	13.1	12.6	13.1	13.1	10.6	08.6	14.7		
28	07.0	06.1	07.5	11.1	12.6	14.9	17.1	15.6	20.6	18.5	19.6	17.1	17.2	18.2	16.4	15.9	15.7	15.5	14.3	13.2	12.5	11.1	08.5	07.2	13.9		
29 D	05.3	07.1	11.6	11.1	09.8	12.8	11.3	17.1	17.6	17.3	17.3	21.8	19.7	23.6	22.5	21.8	20.8	20.1	12.5	08.4	08.0	08.1	08.3	08.8	14.3		
30	09.1	09.8	11.4	11.6	12.0	13.6	16.6	12.4	14.6	14.6	14.3	15.6	17.0	18.1	14.6	19.6	19.8	18.6	16.8	11.0	09.8	09.1	08.1	09.8	13.7		
31																											
Mean	09.3	10.4	11.4	12.6	13.7	14.4	15.1	15.9	16.9	17.1	16.1	16.2	16.4	18.2	20.2	22.1	22.5	21.3	18.7	16.0	13.8	11.6	10.1	09.3	15.4		

VERTICAL INTENSITY
Mean values for periods of sixty minutes, Universal Time

Table 12 Victoria

z = 53,000 γ +

April 1959

Hour U. T. Day	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	Mean	
	to 1	to 2	to 3	to 4	to 5	to 6	to 7	to 8	to 9	to 10	to 11	to 12	to 13	to 14	to 15	to 16	to 17	to 18	to 19	to 20	to 21	to 22	to 23	to 24			
1	442	447	457	451	457	459	469	461	448	441	439	437	436	435	434	434	436	434	431	426	427	432	433	435	442	442	
2	437	438	439	438	434	434	432	432	434	435	431	424	423	426	427	425	420	421	418	415	413	417	425	434	428	428	
3	435	443	452	447	447	444	443	442	440	436	429	402	394	411	418	422	416	407	406	408	410	415	421	423	425	425	
4	425	431	435	436	437	433	429	426	427	429	424	422	425	427	429	429	425	418	414	414	419	426	424	423	426	426	
5 Q	425	427	430	433	429	427	429	427	426	425	422	421	420	419	421	421	421	419	411	409	408	407	404	402	420	420	
6	414	419	422	423	423	420	420	422	419	415	415	416	418	421	422	420	416	408	402	400	401	407	412	413	415	415	
7	412	414	420	420	422	424	425	425	425	422	422	418	416	409	413	419	420	416	410	405	403	404	405	410	416	416	
8	421	431	442	455	455	455	450	446	430	421	402	408	355	387	418	421	417	411	413	409	403	406	410	434	421	421	
9 D	483	487	490	493	497	509	464	463	425	397	419	423	427	431	432	432	433	436	436	434	421	416	419	417	445	445	
10 D	415	417	435	435	429	432	429	377	290	395	383	388	290	210	175	260	335	375	400	415	422	435	436	435	375	375	
11	434	440	442	443	441	444	415	402	413	416	407	370	412	426	430	426	419	413	410	410	409	416	425	431	421	421	
12	421	431	428	428	429	433	435	434	430	421	421	421	415	417	419	417	415	410	409	407	411	415	416	417	421	421	
13	418	424	428	428	427	425	427	420	420	425	424	422	406	416	421	424	420	413	409	407	411	412	413	414	419	419	
14	416	426	434	428	424	424	424	422	425	425	424	424	421	423	423	421	414	408	410	408	409	415	415	424	420	420	
15	434	444	438	431	429	428	430	429	428	425	425	425	424	425	422	422	422	421	416	419	416	417	420	421	425	425	
16	426	430	432	432	432	429	429	425	423	425	423	417	422	424	425	425	427	425*	415	407	404	408	408	413	422	422	
17	417	423	426	424	424	425	425	428	420	416	410	406	405	401	402	411	413	405	398	399	406	412	417	425	414	414	
18 Q	435	436	435	431	427	426	425	428	428	427	428	427	427	428	427	425	421	419	422	419	417	415	410	411	425	425	
19 Q	418	423	429	431	429	427	427	428	428	427	422	422	426	428	431	430	426	418	415	415	410	415	418	419	423	423	
20 Q	420	422	422	421	419	417	417	414	413	411	405	403	402	397	397	401	404	420*	410*	409	402	400	400	405	410*	410*	
21	415	418	421	423	430	427	423	420	420	405	385	400	410	418	421	422	422	415									
22 Q			418	425	426	429	430	428	427	426	425	424	425	426	427	427	424	417									
23 D							428	429	430	429	432	427	423	410	420	410	399										
24 D	410*	415*	420*	425*	435	435	436	434	435	430	433	429	394	378	393	401	414										
25	408	418	427	424	426	423	426	423	416	404	406	410	404	407	408	409	405	400	409	411	426	429	443	434	416*	416*	
26	430	447	453	463	452	439	434	430	421	426	434	433	426	425	425	419	418	420	428	439	437	438	437	435*	434*	434*	
27	435*	437*	439*	439*	437*	435	416	411	411	412	405	384	380	383	383	375	367	368	389	401	410	414	429	436	408*	408*	
28	435	444	449	449	447	449	443	438	425	424	419	415	425	421	415	410	410	409	410	411*	411	421	439	455	428*	428*	
29 D	453	461	449	446	444	445	441	426	426	427	417	396	406	395	380	377	381	384	387	398	407	417	433	445	418*	418*	
30	444	443	443	445	447	448	444	415	423	431	431	428	430	419	370	373	389	397	405	421	430	434	435	440	424*	424*	
31																											
Mean	428	433	436	437	436	436	432	427	421	422	419	415	410	408	408	410	412	411	411	412	413	417	421	425	421	421	

HORIZONTAL INTENSITY
Mean values for periods of sixty minutes, Universal Time

Table 13 Victoria

H = 18,500 γ +

May 1959

Day	Hour U. T.	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	Mean
		to 1	to 2	to 3	to 4	to 5	to 6	to 7	to 8	to 9	to 10	to 11	to 12	to 13	to 14	to 15	to 16	to 17	to 18	to 19	to 20	to 21	to 22	to 23	to 24		
1		278	288	297	297	306	297	297	292	296	294	288	288	286	202	307	306	287	273	258	257	262	268	270	280	282	
2		287	298	297	292	286	302	318	308	310	312	312	316	316	312	305	302	298	298	302	302	302	302	290	296	303	
3		296	306	308	307	310	313	316	314	320	326	325	326	324	316	309	296	300	309	308	312	309	296	298	292	310	
4		302	309	320	312	318	318	322	326	339	328	324	329	331	337	324	324	327	326	320	326	322	330	312	350*	324	
5		367*	376*	295	278	268	285	294	297	318	308	308	306	303	298	303	300	294	278	271	273	272	272	280	287	297	
6	Q	293	300	301	302	306	308	311	312	316	322	322	320	324	328	330	320	306	284	276	280	284	286	282	288	304	
7		290	300	304	306	309	312	314	318	321	331	336	336	333	335	334	334	327	312	312	304	298	294	292	316	315	
8	D	323	304	316	334	317	271	282	287	256	280	273	273	311	310	322	323	315	301	289	282	279	274	298	312	297	
9		294	304	304	303	309	304	307	312	318	322	322	319	324	326	320	330	319	300	308	308	295	290	295	281	309	
10		298	305	306	310	310	316	306	312	310	308	323	316	318	320	330	328	313	291	293	290	287	282	280	276	305	
11		304	308	309	316	311	317	330	322	312	314	325	306	294	309	312	307	285	264	255	274	296	300	312	343*	305	
12	D	362*	358*	328*	363*	383*	372	325	362	327	254	290	284	286	301	269	250	258	293*	276	292	288	278	270	287	306	
13		285	288	285	284	282	293	294	300	298	280	289	282	292	288	297	297	302	295	293	291	284	278	294	287	290	
14	Q	293	294	294	290	292	295	298	298	300	300	303	307	296	294	309	306	298	281	284	286	279	277	289	298	294	
15	D	308	320	320	308	303	300	301	317	326	330	392	382	306	302	308	307	296	262	273	274	260	274	283	267	305	
16	D	320	314	334	325	287	275	288	277	269	289	291	284	282	281	286	281	272	264	263	268	269	267	286	279	285	
17		304	307	304	296	296	299	309	298	314	318	308	306	292	312	308	294	280	274	282	290	288	290	296	310	299	
18		312	311	308	322	326	307	301	284	285	304	292	304	305	310	308	303	291	284	275	286	284	298	303	308	300	
19		316	328	310	295	292	303	308	313	312	311	302	292	290	298	289	272	262	258*	250	260	282	290	291	282	292	
20		308	295	300	294	297	295	298	304	308	312	304	301	306	308	302	290	267	264	261	275	278	286	296	291	293	
21		305	301	298	292	204	299	302	299	308	320	310	306	301	302	296	269	258	246	233	250	256	253	276	270	281	
22		295	326	310	286	293	299	311	304	286	302	306	304	306	309	306	302	310	286	280	279	292	284	291	304	299	
23		290	283	290	290	296	301	304	312	308	308	304	308	308	304	295	286	285	272	280	286	279	268	266	292	292	
24	D	322	322	290	290	308	316	305	299	301	312	298	270	293	277	304	286	290	304	292	294	309	269	287	260	296	
25		314	298	280	265	282	278	278	271	264	289	301	298	294	292	286	290	292	289	292	288	278	268	269	274	285	
26		295	308	295	292	292	294	297	299	301	308	305	300	300	302	308	308	297	283	275	273	272	279	294	299	295	
27	Q	304	302	308	308	304	304	304	307	308	307	311	308	310	316	310	298	288	282	275	279	283	292	290	296	300	
28	Q	304	307	307	308	312	312	315	318	318	319	319	319	320	323	324	319	312	306	300	298	292	292	299	306	310	
29	Q	313	315	312	312	313	315	319	322	325	326	324	322	323	323	323	321	317	317	317	319	320	320	322	313	319	
30		326	329	331	328	326	324	326	326	329	332*	332*	330*	332*	334*	328*	320*	316*	316*	310*	316*	322*	322*	325*	330*	325*	
31		335*	330	334	326	313	293	313	322	331	316	312	311	307	312	306	295	288	282	267	273	277	276	304	306	305	
Mean		308	311	306	304	302	304	306	307	308	309	311	308	307	306	308	302	295	287	283	287	287	286	292	296	301	

DECLINATION
Mean values for periods of sixty minutes, Universal Time

Table 14 Victoria

D = 22° 45.0' E +

May 1959

Hour U. T. Day	0 to 1	1 to 2	2 to 3	3 to 4	4 to 5	5 to 6	6 to 7	7 to 8	8 to 9	9 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	Mean
1	11.2	12.8	14.5	16.7	24.7	19.0	17.1	19.8	18.5	19.4	19.8	20.5	21.6	21.5	21.6	22.8	24.8	23.1	20.1	17.3	14.1	10.6	08.7	09.5	17.9
2	10.7	11.2	12.7	11.5	12.2	14.0	12.1	14.6	14.6	15.0	15.1	15.6	16.7	18.0	20.1	21.3	22.1	21.6	20.7	17.6	14.8	12.3	11.2	10.5	15.3
3	10.9	10.6	12.0	13.3	13.6	14.1	14.5	16.5	16.0	14.6	14.1	14.6	15.8	18.1	18.8	20.1	19.7	19.1	17.7	15.3	14.6	12.6	10.6	10.2	14.9
4	09.6	11.0	12.1	13.4	13.8	12.7	13.5	14.5	14.2	20.5	17.6	16.1	17.0	17.6	15.6	17.7	19.5	19.3	17.6	14.5	13.1	11.1	13.0	03.4	14.5
5	03.5	00.9	06.7	09.6	12.1	13.8	12.1	13.9	12.7	13.8	13.6	14.1	12.5	17.8	18.9	21.2	22.4	21.5	18.8	15.6	13.5	11.3	10.1	10.6	13.4
6 Q	10.8	12.2	13.7	13.5	12.9	12.8	13.4	14.0	14.6	14.7	15.1	16.8	17.6	19.8	22.1	23.9	24.1	22.3	19.5	16.0	14.0	12.3	11.1	10.6	15.7
7	11.8	12.8	13.4	13.3	13.1	13.1	13.6	14.0	14.0	14.7	15.0	15.6	17.6	18.1	19.6	20.5	21.6	21.9	19.2	17.1	14.3	12.4	10.4	07.2	15.2
8 D	07.8	10.2	11.2	12.0	19.1	24.2	18.1	22.1	20.3	22.5	15.1	15.7	19.0	21.7	23.6	26.8	27.8	26.0	22.2	17.2	12.1	10.1	07.9	07.9	17.5
9	08.7	11.3	14.5	14.0	12.8	13.7	14.7	13.8	15.0	14.6	12.6	11.6	14.8	18.0	19.7	23.0	23.7	26.1	20.7	16.1	14.1	10.7	10.1	11.3	15.2
10	10.2	11.6	12.5	13.6	13.6	15.3	19.2	18.8	15.6	17.1	17.1	14.6	15.8	17.6	19.8	22.3	24.5	23.4	16.7	13.6	12.3	06.6	05.1	06.6	15.1
11	08.7	13.7	13.7	14.0	14.1	13.6	18.8	15.1	15.3	16.3	14.1	14.6	14.0	20.9	23.7	25.4	27.9	24.3	19.8	13.6	12.6	12.4	11.0	06.6	16.0
12 D	00.6*	01.4*	00.6*	01.4*	06.6*	07.6*	12.7	02.9	13.1	13.1	15.5	11.5	14.1	20.9	26.9	30.1	36.4	13.6	19.7	15.7	14.6	14.3	14.5	15.1	13.2
13	14.9	15.2	15.1	15.1	16.4	15.3	13.6	13.6	16.1	13.6	12.6	14.0	15.9	22.4	24.4	25.0	25.6	23.1	19.6	15.1	13.8	13.1	12.1	11.6	16.5
14 Q	10.6	12.5	12.9	13.6	13.2	13.3	13.8	13.6	13.6	13.9	14.1	12.9	13.0	15.6	19.2	22.9	24.2	22.1	19.1	15.1	12.1	11.0	09.6	09.2	14.6
15 D	10.0	12.0	15.3	15.8	13.9	12.7	13.1	12.3	14.0	15.4	18.7	24.6	19.5	18.2	20.9	23.6	27.0	27.3	16.6	14.6	14.4	14.3	13.1	09.6	16.5
16 D	09.6*	15.6	13.6*	20.6	21.6	13.6*	22.6*	22.6	17.6	14.3	15.6	15.7	15.8	17.7	22.6	25.4	25.6	22.6	17.6	13.6	11.6*	10.6*	10.6*	11.6*	17.0
17	10.6*	12.1*	13.1*	13.6*	14.1*	15.1*	16.1	16.6	18.6	15.9	15.1	15.6	18.1	22.3	23.9	23.1	20.1	19.1	18.1	15.5	13.6*	12.6*	11.6*	11.6*	16.1
18	13.6*	13.6*	15.6	14.1	18.6*	12.6*	18.1	14.4	18.4	18.1	17.0	16.8	19.1	21.7	24.8	24.1	25.0	20.8	16.8	14.1*	12.1*	11.1*	11.6*	12.1*	16.8
19	13.1	13.0	13.3	13.6	10.6*	12.6	12.4	12.8	12.6	13.6	18.1	16.9	21.6	22.5	23.3	23.8	19.0	15.6*	11.6*	08.2	07.9	08.2	08.6	10.8	14.3
20	10.4	12.1	13.0	13.1	13.5	13.5	13.0	12.5	11.6	13.0	13.5	15.0	17.5	20.7	23.0	24.0	23.5	19.8	16.0	10.0	07.5	06.1	06.8	08.9	14.1
21	09.1	10.0	11.1	10.6	12.1	13.7	14.3	14.0	12.5	13.0	15.8	16.0	18.0	19.0	19.7	21.1	22.9	20.8	15.5	12.5	10.2	08.5	06.5	07.5	13.9
22	07.5	08.0	10.5	11.1	12.2	12.4	12.5	14.0	10.5	15.9	15.5	16.5	18.2	18.5	17.7	17.0	20.5	21.4	18.6	14.9	12.0	09.9	07.5	07.0	14.7
23	08.4	08.4	10.4	13.5	11.5	12.0	14.2	14.6	15.0	15.2	15.1	16.3	17.4	19.5	20.7	22.0	20.2	17.5	13.1	12.0	10.5	08.9	07.0	05.9	14.7
24 D	06.2	07.1	11.2	11.6	11.0	09.6	14.5	14.5	18.7	17.2	21.0	27.9	23.4	21.1	24.0	26.5	20.3	19.1	18.4	16.5	15.2	15.7	07.4	06.1	16.0
25	00.5	06.5	06.9	10.0	10.7	13.5	18.6	19.0	17.0	15.2	15.0	14.0	15.5	18.7	21.3	22.3	21.7	21.0	18.3	15.7	14.0	12.2	10.8	09.5	14.5
26	09.6	10.9	11.7	12.5	13.0	13.1	13.1	13.1	13.0	12.7	13.5	15.0	16.1	18.3	20.6	22.3	23.6	23.5	18.7	14.2	11.3	08.9	08.0	07.6	14.3
27 Q	08.3	10.0	13.9	14.2	12.6	13.0	13.1	13.1	13.4	13.0	13.5	14.0	15.3	17.4	19.5	20.7	20.4	19.0	17.5	15.6	14.5	12.1	10.2	10.6	14.4
28 Q	11.0	12.2	13.0	13.1	13.0	14.2	14.0	14.1	14.4	15.0	15.4	15.5	15.8	17.4	19.0	19.2	18.6	18.0	16.7	16.0	13.2	09.6	07.9	07.2	14.3
29 Q	08.7	10.7	12.5	12.9	13.4	13.9	14.2	14.7	14.8	15.5	15.0	16.1	17.7	19.1	21.1	23.0	23.3	21.4	19.2	16.2	14.0	12.5	11.0	10.6	15.5
30	10.5	11.5	12.5	13.2	13.5	13.5	14.0	14.6	15.1	15.1*	15.1*	16.1*	20.1*	19.1*	22.6*	22.1*	23.1*	22.1*	18.6*	16.1*	14.1*	13.1*	12.6*	11.6*	15.8*
31	10.0	11.7	12.7	14.3	16.0	16.2	14.1	12.9	15.5	15.0	14.4	14.9	15.7	18.0	25.6	24.0	23.1	22.7	19.2	10.9	08.5	06.9	06.6	07.4	14.8
Mean	09.3	10.6	12.1	12.9	13.9	13.8	14.8	14.7	15.0	15.4	15.4	15.9	17.1	19.3	21.4	22.8	23.3	21.3	18.1	14.7	12.7	11.0	09.8	09.2	15.2

VERTICAL INTENSITY
Mean values for periods of sixty minutes, Universal Time

Table 15 Victoria

$Z = 53,000 \gamma +$

May 1959

Hour U. T.	0 to 1	1 to 2	2 to 3	3 to 4	4 to 5	5 to 6	6 to 7	7 to 8	8 to 9	9 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	Mean
1	435	436	436	439	434	430	432	428	430	427	422	414	410	425	432	435	434	431	429	423	420	421	425	429	428
2	424	434	439	438	441	438	420	425	425	424	423	423	420	421	423	423	416	410	413	418	415	416	416	420	424
3	414	417	421	422	418	418	419	419	420	420	418	415	417	418	416	409	407	403	396	393	396	402	404	408	412
4	407	412	418	417	420	417	418	419	418	402	405	410	414	421	411	409	404	402	405	409	406	405	409	431	412
5	481	547	543	529	486	477	447	439	436	429	426	425	417	421	420	423	424	419	416	417	417	416	422	426	446
6 Q	419	420	421	420	419	419	419	419	420	420	417	418	420	420	418	414	410	404	403	405	408	410	407	408	415
7	403	406	408	409	410	411	411	413	413	415	413	412	413	413	411	407	406	402	401	400	402	406	408	417	409
8 D	419	417	416	422	430	448	443	406	384	395	339	296	379	393	425	436	434	433	425	421	418	415	427	439	411
9	420	424	428	421	418	419	422	421	414	415	415	403	403	411	405	406	406	401	401	399	399	403	411	414	412
10	411	415	414	412	411	413	417	411	412	381	399	409	415	420	420	421	418	402	397	391	395	397	404	411	408
11	418	429	424	419	413	414	411	402	404	391	393	390	383	400	405	403	398	388	388	391	392	402	412	428	404
12 D	425	436	438	471	460	487	472	466	432	344	412	386	319	368	392	386	352	360	390	407	415	414	419	433	412
13	424	424	419	417	419	420	418	417	399	388	397	377	394	398	409	414	410	406	405	402	405	411	417	411	408
14 Q	403	403	401	398	399	402	405	407	407	410	410	411	396	383	386	396	403	400	398	402	404	406	410	412	402
15 D	412	423	429	422	412	409	407	410	412	399	390	377	409	413	408	412	408	399	394	399	404	422	442	462	411
16 D	477	481	480	468	464	427	393	397	410	393	413	419	422	418	421	421	420	409	402	403	408	412	424	427	425
17	420	418	414	410	409	411	416	417	412	395	392	386	373	408	415	407	402	397	394	392	391	397	404	408	404
18	417	422	426	427	422	391	419	411	395	397	396	405	417	417	411	399	391	387	386	389	389	398	414	419	406
19	409	418	421	413	406	403	401	399	396	386	365	362	365	382	386	389	384	387*	390*	396	409	416	421	436	398
20	438	435	437	431	431	430	430	428	417	413	418	421	427	429	427	422	424	404	389	391	402	410	424	429	421
21	431	439	442	434	440	440	437	434	427	409	403	407	412	414	413	410	409	409	401	402	409	415	422	424	420
22	427	442	448	444	437	432	432	434	410	408	421	425	439	438	419	398	402	404	398	399	407	405	409	426	421
23	434	440	447	444	434	428	430	428	427	422	418	418	420	421	420	416	411	400	402	404	405	408	410	418	421
24 D	425	438	454	445	436	443	437	388	413	412	389	368	411	392	383	398	399	396	392	401	416	422	458	495	417
25	510	492	454	432	434	435	455	443	426	408	425	425	431	434	431	429	428	420	421	421	421	429	438	441	437
26	448	448	436	427	424	426	427	428	432	433	428	431	429	426	424	415	405	399	400	403	405	410	422	430	423
27 Q	434	435	440	433	426	426	427	428	430	428	424	426	431	435	431	425	418	408	403	402	403	411	416	417	423
28 Q	414	418	420	421	422	422	424	425	426	426	425	423	422	424	424	419	413	405	400	403	401	408	416	418	418
29 Q	419	424	422	420	420	419	421	421	422	422	421	423	424	423	419	416	416	401	388	391	400	405	406	410	415
30	416	417	416	416	416	414	415	416	417	415*	412*	415*													
31	416	415	410	426	430	430	426	422	420	416	417	421	423	409	386	374	379	389	385	394	405	412	424	437	411
Mean	427	433	433	430	427	426	424	420	416	408	408	405	409	413	413	411	408	403	400	402	406	410	418	427	416

HORIZONTAL INTENSITY
Mean values for periods of sixty minutes, Universal Time

Table 16 Victoria

H = 18,500 γ +

June 1959

Day	Hour U. T.	0 to 1	1 to 2	2 to 3	3 to 4	4 to 5	5 to 6	6 to 7	7 to 8	8 to 9	9 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	Mean
	1		321	304	295	288	294	292	302	303	304	308	312	312	315	309	311	307	298	290	279	284	292	296	304	298
2		286	306	303	312	320	318	320	318	309	304	310	314	317	316	304	292	291	266	259	282	282	293	315	323	302
3		316	308	314	282	305	302	303	310	308	310	307	298	306	308	297	300	281	271	270	272	282	275	288	312	297
4	D	332	322	288	302	308	298	307	292	307	312	310	302	318	324	332	333	328	318	299	282	279	260	299	302	306
5		261	296	305	306	284	284	293	300	305	310	318	318	312	318	317	304	294	290	279	266	261	276	295	297	295
6																										
7																										
8																										
9		321	322	315	315	313	317	307	317	327	282	292	286	296	334	334	331	338	339	306	288	288	288	282	286	309
10		318	307	316	325	316	287	294	302	311	311	310	314	323	330	338	329	324	310	290	284	277	282	289	300	308
11		308	310	312	315	314	314	321	315	318	360	323	323	332	348	334	338	334	346	315	297	296	291	287	290	318
12	Q	301	310	312	308	306	304	304	304	305	305	307	310	317	322	326	322	316	296	298	292	280	294	298	311	306
13	Q	311	318	315	313	309	310	312	315	315	316	316*	313*	318*	320*											
14		310	321	320	318	317	314	317	319	322	322	324	320	314	316	325	326	316	317	308	300	298	302	298	313	315
15		310	326	326	325	325	322	317	311	296	309	313	313	322	328	326	319	310	299	294	296	296	296	296	301	311
16	Q	311	312	322	322	310	301	306	305	308	305	306	308	311	319	324	326	326	328	316	306	303	293	288	298	311
17	Q	312	316	316	314	314	314	313	315	318	320	322	323	330	339	346	342	328	306	291	298	300	322	308	303	317
18		308	314	318	326	309	314	326	327	315	313	313	309	304	310	312	304	285	286	278	271	268	276	295	308	304
19		322	329	328	326	326	325	320	320	322	327	324	328	327	336	331	324	317	302	292	294*	284	284	295	309	316
20		324	328	331	318	318	318	321	322	322	324	326	328	332	337	337	335	333	318	306	294	287	295	306	306	319
21		302	314	309	313	314	322	321	314	318	318	320	318	320	324	320	317	308	281	271	261	267	268	283	293	304
22		315	316	327	326	318	315	326	328	324	335	332	325	321	326	320	312	316	319	300	293	291	298	288	302	316
23		310	321	319	316	318	330	320	320	322	328	324	323	324	328	334	324	315	294	293	300	296	310	308	301	316
24		325	335	346	317	281	270	284	290	291	295	296	296	300	308	307	294*	281	255	247*	259	273*	286	288	286	292
25	Q	307	304	309	308	309	305	302	305	308	310	316	313	312	315	316	315	302	292	291	292	291	290	295	287	304
26		301	298	318	308	317	305	306	305	289	272	278	286	299	302	308	309	310	304	280	268	268	269	276	280	294
27	D	290	299	301	308	308	310	311	320	326	323	326	336	337	344	312	310	266	278	306	288	275	275	297	290	306
28	D	336	304	304	328	287	293	293	279	280	266	275	271	285	273	244	271	286	287	290	276	266	269	293	310	286
29	D	318	312	308	312	296	292	288	304	292	286	240	257	309	288	282	263	238	226	247	268	302	292*	329	314	286
30	D	313	291	298	288	287	298	296	291	291	263	226	225	292	264	255	280	272	259	256	226	238	262	278	292	272
31																										
Mean		311	313	314	313	308	306	309	309	309	309	306	306	315	318	315	313	304	295	287	282	282	286	295	300	305

DECLINATION
Mean values for periods of sixty minutes, Universal Time

Table 17 Victoria

D = 22° 45.0' E +

June 1959

Hour U. T. Day	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	Mean	
	to 1	to 2	to 3	to 4	to 5	to 6	to 7	to 8	to 9	to 10	to 11	to 12	to 13	to 14	to 15	to 16	to 17	to 18	to 19	to 20	to 21	to 22	to 23	to 24		
1	09.1	09.9	13.0	13.1	12.2	13.0	12.7	12.5	13.8	12.5	12.4	13.9	15.0	15.9	19.2	21.1	23.3	21.7	18.4	14.0	11.3	09.2	07.5	07.1	13.8	
2	09.0	10.2	12.5	12.6	13.7	13.3	17.3	14.9	15.5	16.7	15.9	17.4	18.0	21.6	23.3	21.7	23.5	23.5	17.0	13.5	09.5	08.0	06.7	06.6	15.1	
3	08.7	09.5	08.5	11.2	18.1	14.4	13.4	14.5	14.3	14.5	16.5	17.0	16.1	17.8	20.0	21.6	23.0	20.1	17.0	12.9	09.8	07.1	07.2	06.7	14.2	
4 D	06.0	06.8	11.6	11.5	12.1	19.2	20.9	15.0	12.0	13.5	14.1	17.6	15.5	17.4	20.1	23.1	23.0	19.4	15.9	13.1	12.2	08.8	07.3	05.1	14.2	
5	09.0	09.1	11.3	13.7	15.6	15.5	12.1	11.7	11.6	12.4	13.2	12.0	16.2	17.0	22.2	23.4	22.2	21.7	19.2	14.5	11.2	08.0	08.2	07.9	14.1	
6	09.2	11.5	12.4	12.5	12.5	12.9	13.0	12.5	18.5	14.4	15.8	13.5	13.4	14.6	19.0	21.0	22.2	23.1	15.1	12.8	12.2	12.0	11.5	10.4	14.4	
7	10.1	10.5	11.5	13.9	17.3	14.8	12.1	12.5	13.0	13.5	14.0	14.1	14.5	17.1	20.0	22.9	23.2	22.6	20.0	15.4	13.7	11.8	11.0	10.5	15.0	
8	10.5	11.1	12.0	12.6	12.5	12.6	13.0	17.2	18.3	15.9	14.5	14.0	14.7	16.4	18.0	19.6	20.5	19.2	18.1	13.3	11.7	09.5	07.0	08.0	14.2	
9	08.0	10.5	12.8	14.9	17.3	20.0	15.2	14.0	12.2	20.6	20.0	11.9	22.1	21.4	23.3	25.1	26.2	25.5	21.7	14.0	09.9	09.3	08.5	08.2	16.4	
10	09.1	11.9	12.7	21.5	17.6	14.2	13.1	13.3	12.0	10.9	12.0	13.1	13.4	14.5	16.5	18.8	21.0	21.5	18.7	17.0	13.0	09.4	08.3	08.0	14.2	
11	10.1	12.4	14.7	15.0	13.6	13.2	13.8	13.0	12.6	10.6	17.0	13.3	20.2	19.7	19.8	20.0	20.0	18.7	19.6	17.5	13.0	11.3	09.9	09.8	14.9	
12 Q	10.9	12.2	13.6	14.7	14.6	14.0	14.0	13.5	14.0	14.5	15.2	15.8	16.5	17.7	19.7	21.6	23.0	24.6	20.2	15.6	13.5	11.1	10.0	07.8	15.3	
13 Q	09.0	10.5	13.5	15.1	14.0	14.0	13.5	13.5	13.5	14.0	14.5	15.0														
14	06.8	07.9	10.5	11.9	13.0	13.2	12.5	13.0	13.5	14.0	14.1	13.3	14.3	16.0	18.5	20.5	22.0	21.9	17.5	14.0	12.0	10.5	08.5	07.5	13.6	
15	07.6	08.9	11.2	13.0	13.7	13.8	15.2	14.7	16.2	15.9	14.2	15.3	18.3	19.5	21.0	22.6	23.1	21.1	18.0	15.0	13.0	10.5	08.5	08.0	14.9	
16 Q	09.0	10.5	13.0	15.9	14.5	13.5	12.5	11.7	11.5	12.9	13.2	14.7	15.1	16.5	17.3	18.6	20.4	21.0	20.1	18.2	17.0	13.0	11.2	10.0	14.6	
17 Q	09.7	11.0	12.0	12.5	12.7	12.8	12.9	13.3	13.5	13.7	13.5	14.0	14.6	16.5	19.1	22.6	24.6	26.5	24.6	16.5	12.7	10.0	05.5	09.0	14.7	
18	06.9	09.0	10.4	11.9	12.6	11.5	11.5	11.3	14.0	13.2	13.2	14.0	16.6	17.9	20.7	21.5	20.9	22.0	17.5	11.0	06.2	05.4	06.0	06.7	13.0	
19	07.0	09.0	11.5	12.5	12.0	16.5	13.2	13.0	13.8	14.7	16.0	15.7	17.5	19.5	20.8	22.3	24.5	23.0	18.0	14.0	11.2	08.9	07.6	07.0	14.5	
20	06.5	09.4	11.5	12.0	11.5	11.3	11.3	11.9	12.0	13.1	14.2	15.5	15.7	18.2	20.5	23.8	23.4	23.5	21.4	14.2	10.1	07.0	06.8	07.0	13.8	
21	06.5	07.4	10.2	11.6	11.7	11.5	12.2	11.2	11.5	12.3	12.7	15.0	15.1	15.5	19.4	24.0	23.7	27.2	21.3	15.7	08.7	05.7	03.9	04.5	13.3	
22	05.5	07.9	10.0	11.7	12.0	11.6	11.7	12.6	16.0	12.3	13.2	16.2	20.6	23.7	24.0	21.9	24.4	24.0	22.5	15.2	10.5	06.7	05.5	06.0	14.4	
23	07.4	09.8	11.1	12.0	13.5	14.1	13.5	13.9	13.7	13.7	14.2	15.5	16.9	19.7	21.9	25.5	26.9	25.2	18.5	11.4	09.0	06.1	05.8	07.0	14.4	
24	02.9	03.5	02.0	16.5	13.5	14.8	12.5	12.7	12.9	12.4	12.2	12.6	15.0	18.0	21.3	24.7	25.2	25.7	21.7	17.7	12.5	08.7	05.2	04.3	13.7	
25 Q	06.7	09.7	12.5	14.0	15.5	13.2	13.0	12.7	13.2	13.2	13.5	13.0	16.0	19.5	23.3	25.0	25.1	24.7	20.5	15.5	11.4	08.0	05.0	04.0	14.5	
26	05.0	06.4	07.7	11.5	15.5	13.9	14.5	16.0	13.5	17.4	19.6	17.5	19.2	19.5	21.2	22.5	23.3	25.0	24.0	19.9	14.1	10.7	09.5	09.7	15.7	
27 D	10.7	11.8	12.5	12.5	12.9	13.0	12.7	13.0	11.5	13.0	17.0	17.5	20.5	23.5	23.4	18.0	20.0	15.9	13.0	16.5	16.1	11.2	06.9	05.0	14.5	
28 D	00.5	05.0	04.9	10.8	14.6	12.2	11.2	06.5	17.3	13.3	12.9	17.6	15.5	20.2	17.7	18.7	18.7	16.0	17.7	19.3	13.0	08.5	09.0	08.8	12.9	
29 D	09.5	10.6	12.7	14.7	17.1	16.0	13.9	11.9	03.5	13.1	25.8	20.4	21.0	18.7	20.0	18.5	18.4	15.2	14.4	11.5	09.5	07.8	09.5	05.5	14.1	
30 D	05.4	10.1	10.4	09.7	11.2	12.7	14.6	13.0	13.7	17.0	19.8	22.0	21.4	20.0	23.0	20.4	22.5	24.3	23.5	16.5	11.9	09.9	09.0	08.9	15.5	
31																										
Mean	07.7	09.5	11.1	13.2	14.0	13.9	13.4	13.0	13.4	14.0	15.1	15.3	16.9	18.4	20.5	21.8	22.7	22.2	19.1	15.0	11.7	09.1	07.8	07.4	14.4	

VERTICAL INTENSITY
Mean values for periods of sixty minutes, Universal Time

Table 18 Victoria

z = 53,000 γ +

June 1959

Hour U. T. Day	0 to 1	1 to 2	2 to 3	3 to 4	4 to 5	5 to 6	6 to 7	7 to 8	8 to 9	9 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	Mean
1	462	467	463	449	444	443	440	437	434	428	419	424	429	430	432	430	431	428	410	396	393	400	416	421	430
2	417	424	422	421	425	429	409	417	420	420	416	404	406	408	406	409	404	404	399	403	407	416	430	448	416
3	476	471	475	462	452	433	437	438	431	418	409	410	423	429	432	432	426	422	416	413	406	407	415	427	432
4 D	436	448	439	431	431	440	433	419	435	429	421	415	424	427	430	423	412	425	406	406	408	411	427	438	426
5	442	452	453	457	450	453	444	435	433	431	432	426	428	431	428	424	423	415	409	407	407	411	418	428	431
6	433	436	433	427	426	427	427	428	425	423	415	423	419	410	407	416	424	412	407	404	406	415	426	428	421
7	435	439	438	439	436	432	427	425	423	423	419	422	424	422	420	420	416	407	398	403	403	409	415	419	421
8	426	427	425	422	422	422	423	421	405	411	419	423	425	423	418	415	411	410	401	397	393	402	407	415	415
9	432	440	433	433	435	432	424	426	409	377	360	347	378	423	434	434	430	425	414	413	414	417	423	425	416
10	444	454	461	472	461	447	438	432	426	405	414	425	431	431	430	419	418	418	411	403	401	412	421	428	429
11	430	432	432	428	424	419	418	417	418	421	392	363	387	409	409	402	398	393	384	382	390	399	409	419	407
12 Q	427	435	432	424	420	418	417	417	419	419	420	422	425	424	420	418	409	393	394	399	401	404	406	412	416
13 Q	414	421	422	421	417	417	417	416	417	418	418*	418*													
14	412	417	416	412	412	412	411	410	412	413	415	414	407	396	397	396	395	396	395	393	396	404	413	425	407
15	425	429	425	419	416	415	413	412	397	411	414	418	423	425	426	422	422	409	397	395	397	398	403	408	413
16 Q	418	424	431	435	431	425	421	418	417	416	416	419	421	424	424	420	416	409	403	392	385	390	399	407	415
17 Q	414	420	418	414	411	410	409	409	410	410	410	412	414	418	420	420	409	396	383	375	376	380	376	392	404
18	405	415	420	423	415	410	411	411	410	410	410	408	405	399	396	393	392	388	388	385	380	381	384	391	401
19	403	412	412	413	409	409	406	407	407	402	401	406	404	407	408	409	408	404	391	382	375	377	384	395	401
20	402	411	413	402	398	399	400	401	401	403	404	406	408	408	402	415	411	401	385	377	371	368	374	382	398
21	392	404	404	404	401	403	405	406	407	407	408	406	407	409	406	402	405	397	384	377	379	382	391	402	400
22	411	413	420	418	412	406	408	408	407	407	401	390	388	382	396	400	402	388	367	369	367	374	375	388	396
23	397	410	412	408	407	410	406	408	409	410	408	410	409	404	402	402	404	392	380	376	373	387	403	428	402
24	436	461	492	514	453	443	430	407	406	413	416	419	423	429	428	409*	405*	397*	386*	381	386	397	405	407	423
25 Q	416	418	418	412	406	405	405	406	408	408	408	408	410	410	408	407	400	388	378	374	375	378	387	401	401
26	420	425	433	429	440	424	423	420	377	387	398	410	411	406	400	403	408	408	404	404	402	402	408	414	411
27 D	422	425	423	418	411	408	407	403	391	380	384	388	381	384	379	350	342	350	366	373	383	400	424	434	393
28 D	444	442	467	480	463	459	472	463	413	404	421	409	407	362	347	348	363	375	388	378	389	398	410	426	414
29 D	441	443	439	437	439	434	432	431	368	259	277	316	356	394	391	392	372	359	375	386	403	423	463	447	395
30 D	445	444	442	429	426	421	421	417	385	353	318	243	367	353	328	323	342	370	380	393	406	423	436	431	387
31																									
Mean	426	432	434	432	426	424	421	419	411	404	402	401	408	409	408	405	404	399	393	391	392	399	409	417	411

HORIZONTAL INTENSITY

Mean values for periods of sixty minutes, Universal Time

Table 19 Victoria

H = 18,500 γ +

July 1959

Hour U. T. Day	0 to 1	1 to 2	2 to 3	3 to 4	4 to 5	5 to 6	6 to 7	7 to 8	8 to 9	9 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	Mean
1 Q	298	298	292	297	293	286	287	295	294	291	292	288	286	290	294	288	284	278	268	268	276	282	285	304	288
2	297	312	317	286	301	288	282	291	288	292	288	290	287	284	282	276	286	281	277	276	274	276	278	286	287
3 Q	302	308	312	300	302	301	300	303	304	308	308	310	314	320	331	332	319	306	298	284	277	274	269	284	303
4	301	315	322	317	314	314	318	320	326	328	320	307	320	338	349	338	348	338	317	290	321	289	285	301	318
5	289	314	314	323	306	291	297	302	313	311	312	304	320	323	330	336	323	315	294	273	270	283	286	294	305
6	303	311	318	307	306	308	308	310	318	321	309	310	320	323	338	357	338	308	279	264	255	273	281	288	306
7	299	316	314	306	310	315	312	321	325	318	296	306	311	312	316	321*									
8	306	312	316	316	304	302	304	314	301	284	289	313	314	314	314	322	329	304	294	288	290	284	294	301	305
9	300	314	316	321	304	298	294	292	298	294	298	306	310	322	334	330	299	310	305	288	258	246	274	305	301
10	324	304	325	336	323	310	306	293	299	304	311	316	313	325	334	334	336	332	326	314	298	288	296	297	314
11	320	333	329	324	306	309	301	301	309	308	311	312	320	310	330	339	328	355*	330	361	363	333	325	365*	326
12	370*	283	309	309	296	302	303	300	307	303	303	305	293	278	282	292	285	284	267	267	258	257	279	281	292
13 Q	292	315	321	318	320	315	310	309	321	306	306	311	309	301	293	293	297	286	273	247	245	258	285	280	296
14	320	313	328	335	350	317	305	318	296	293	291	289	281	304	305	326	312	281	273	269	271	270	275	284	300
15 D	339	354	370	346	288	291	292	296	410*	305*	200*	255*	-200*	-230*	030*	-155*	-385*	-565*	-505*	085*	165*	215*	310*	365*	120*
16 D	235*	230*	257	260	217	220	235	243	230	224	222	222	218	211	194	195	206	211	217	223	240	235	269	315	230
17 D	275	265	269	304	317	284	265	268	270	251	257	257	267	263	267	263	225*	125*	190*	125*	185*	240*	305*	270*	250
18 D	350*	325*	350*	400*	350	278	270*	220	045*	246	252	223	242	247	259	282	297	276	232	227	239	269	302	277	269
19	324	307	295	262	275	265	277	269	288	277	276	271	271	252	256	259	258	265	257	269	257	257	274	291	273
20	288	302	309	288	294	290	297	289	282	291	288	285	298	305	308	308	298	276	260	262	264	270	273	264	287
21	251	283	295	306	302	292	293	300	305	304	302	307	310	303	292	292	291	269	262	256	258	266	279	290	288
22	292	299	295	302	294	302	307	317	304	308	308	304	305	299	287	287	300	285	277	258	259	274	260	285	292
23	321	305	280	282	297	290	284	283	292	298	301	299	295	302	306	308	305	292	268	252	244	236	270	290	288
24	295	294	297	298	302	307	305	296	302	310	319	302	308	304	301	300	305	280	266	284	275	280	293	287	296
25 D	291	313	311	281	301	305	295	293	302	278	286	286	289	289	278	296	292	272	232	264	290	291	290	268	287
26	291	278	311	303	288	284	306	305	278	296	305	299	294	288	293	297	292	274	274	268	254	247	268	314	288
27	289	288	310	282	283	284	286	286	294	283	289	304	300	293	297	298	296	265	266	274	267	269	263	277	285
28	281	301	293	287	288	296	302	303	296	297	307	302	294	302	297	300	296	277	261	262	263	266	272	280	288
29 Q	292	296	308	289	285	302	298	296	300	299	304	294	303	310	308	299	292	277	256	255	264	270	268	276	289
30 Q	286	293	296	298	301	301	302	302	304	305	305	302	307	310	314	308	294	268	248	259	280	289	297	298	294
31	304	303	311	314	309	303	296	290	296	316	296	307	310	307	319	322	306	277	267	271	298	303	275	290	300
Mean	301	303	309	306	301	295	295	294	293	295	292	293	281	281	292	288	275	253	244	259	265	270	283	294	286

DECLINATION
Mean values for periods of sixty minutes, Universal Time

Table 20 Victoria

D = 22° 45.0' E +

July 1959

Hour U. T. Day	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	Mean
	to 1	to 2	to 3	to 4	to 5	to 6	to 7	to 8	to 9	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	
1Q	09.7	10.5	12.4	15.7	13.8	12.8	14.0	15.8	13.7	12.5	12.5	13.3	15.0	17.4	18.5	19.5	21.0	20.5	19.0	16.1	12.9	10.5	08.5	07.5	14.3
2	09.5	10.2	10.0	12.0	14.9	12.1	19.0	17.5	15.2	15.9	15.1	16.0	18.5	21.0	20.4	22.0	23.5	26.0	23.6	18.7	14.3	12.0	09.5	08.4	16.1
3Q	09.3	10.0	11.1	12.0	12.5	12.9	13.1	13.2	13.9	14.5	15.0	16.0	16.9	17.6	19.0	20.2	21.0	20.3	20.0	20.5	16.5	15.4	12.1	09.3	15.1
4	07.8	09.0	11.0	12.3	12.5	12.4	12.3	12.8	12.9	12.7	14.7	14.5	19.4	21.2	22.1	23.5	21.8	25.9	23.0	16.1	13.5	10.4	09.7	07.3	14.9
5	08.5	09.3	11.1	13.0	20.6	18.4	21.0	23.0	15.0	13.2	17.5	15.0	16.1	16.8	19.7	23.0	23.2	20.6	18.0	14.3	11.5	11.0	10.1	09.9	15.8
6	10.0	11.4	13.5	14.7	14.0	13.7	13.5	14.5	15.0	17.5	15.1	14.4	14.4	16.7	21.6	23.5	24.2	24.6	23.0	17.8	14.0	11.4	08.5	07.0	15.6
7	08.2	10.5	13.3	16.2	13.5	13.4	13.5	13.5	19.6	12.5	15.0	17.9	16.5	16.5	19.5	21.0									
8	09.5	12.0	14.4	15.5	16.9	16.0	14.3	13.5	20.5	15.7	16.2	13.5	12.3	14.7	18.5	22.5	27.3	29.6	23.9	19.4	15.0	10.5	08.0	08.0	16.2
9	09.5	10.9	13.1	15.7	19.0	18.9	21.0	18.4	16.5	17.5	15.0	11.7	10.4	16.7	22.5	25.6	28.0	22.5	21.4	16.0	13.0	08.3	07.4	08.4	16.1
10	09.9	11.6	19.7	21.5	23.4	16.2	15.6	16.5	14.6	12.9	11.0	11.7	13.7	16.2	18.5	22.7	25.5	25.0	22.8	17.8	15.5	13.9	11.3	08.2	16.5
11	09.0	12.2	15.0	15.5	17.5	17.0	18.5	14.0	13.0	13.5	14.1	13.7	13.8	14.5	19.2	24.0	26.7	30.5	23.5	18.7	12.5	11.0	10.5	13.9	16.3
12	13.7	07.1	08.0	08.7	10.5	11.5	12.0	12.0	13.1	13.0	13.7	14.0	16.2	21.0	25.0	26.5	28.9	28.0	24.0	18.1	13.6	12.1	10.0	08.7	15.4
13Q	09.3	11.3	13.5	15.0	15.0	13.3	13.9	14.0	14.9	14.0	14.0	14.0	13.7	16.0	21.5	23.5	24.9	24.0	21.9	17.5	12.1	08.2	07.4	07.9	15.0
14	07.5	10.6	14.0	17.7	17.6	19.5	11.6	14.0	15.1	14.4	10.5	16.0	17.0	17.7	18.2	23.2	25.5	26.0	19.0	15.5	13.5	12.0	10.8	10.5	15.7
15D	10.2	11.5	10.0	10.1	15.5	13.4	11.5	14.0	14.8	09.5	11.5	17.5	36.5	36.5	47.5	50.0	37.5	70.5	46.5	25.5	26.5	11.5	15.5	13.5	23.6
16D	11.5	11.0	13.4	21.5	19.0	15.2	18.5	13.0	09.4	10.1	09.4	12.5	15.4	19.0	21.7	22.8	23.4	21.6	20.7	19.0	13.7	08.7	06.5	10.0	15.3
17D	11.0	10.0	10.5	12.3	18.5	15.5	15.0	15.0	12.4	14.0	12.4	17.1	16.7	15.4	20.7	22.1	15.0	18.0	53.5	41.5	26.5	10.5	03.0	00.8	17.0
18D	02.5	04.0	05.5	10.5	18.0	21.5	22.5	18.0	08.5	16.0	14.1	08.4	15.3	17.6	23.5	28.0	25.0	23.4	24.5	18.8	15.0	11.0	10.8	09.2	15.5
19	08.9	10.5	09.9	13.0	11.5	11.0	14.0	11.3	10.9	11.5	10.8	13.2	14.0	14.1	16.7	19.0	21.8	22.5	20.4	16.5	15.5	13.6	10.7	07.6	13.7
20	07.7	11.2	11.5	15.0	13.5	14.5	15.1	14.0	09.1	13.1	11.5	10.5	13.1	17.0	20.2	23.7	26.9	23.5	18.7	13.0	08.5	06.6	06.5	07.6	13.8
21	10.0	09.7	11.5	16.5	15.9	13.0	14.6	17.0	14.5	12.9	12.9	12.5	14.1	18.4	20.6	22.5	25.1	27.8	23.0	17.6	12.5	09.5	06.5	06.0	15.2
22	07.4	11.0	11.5	12.0	12.2	12.0	18.3	13.4	12.1	12.2	13.4	12.0	15.7	17.0	17.8	19.1	18.5	19.5	16.3	11.9	06.1	05.7	06.7	05.7	12.8
23	06.1	10.5	11.2	11.5	15.6	19.5	18.5	13.4	12.9	12.0	11.9	13.5	13.4	19.1	21.5	25.0	26.5	25.1	22.6	20.2	15.0	10.5	07.5	05.6	15.4
24	06.4	08.7	10.5	11.1	11.4	12.1	12.3	12.8	11.4	09.5	13.0	12.8	16.0	15.9	19.0	20.5	23.4	25.0	17.9	15.9	09.1	09.4	08.0	06.7	13.3
25D	06.0	06.3	11.1	11.0	15.0	16.8	13.8	13.0	13.0	12.2	13.3	14.6	14.5	14.9	17.5	19.5	21.5	26.0	22.5	13.1	10.8	09.4	09.9	10.5	14.0
26	08.1	09.3	10.5	18.8	15.5	12.5	14.5	12.4	12.1	11.6	12.0	12.0	16.0	17.4	22.2	25.2	25.3	22.5	19.9	16.6	16.5	12.5	09.5	10.6	15.1
27	10.2	11.3	19.5	14.6	14.0	17.9	15.6	11.1	17.5	11.5	12.2	12.0	14.5	17.5	21.0	24.0	25.4	27.4	23.0	20.2	18.0	15.3	11.0	09.4	16.4
28	08.7	14.0	13.5	13.5	11.7	11.9	17.3	15.6	13.4	12.5	10.6	08.8	13.5	17.0	20.6	23.0	24.0	25.8	20.6	15.9	12.5	09.5	08.0	08.0	14.6
29Q	09.0	11.9	12.1	17.1	15.5	16.0	17.4	13.4	13.0	13.0	13.5	10.8	15.2	18.0	20.8	22.4	23.2	20.8	16.5	12.1	08.5	07.0	07.9	08.3	14.3
30Q	08.2	10.0	12.9	12.6	12.2	12.4	12.9	12.5	12.8	13.0	13.8	14.3	15.8	18.9	21.5	23.3	23.4	21.1	15.0	11.0	09.5	08.6	07.5	08.2	13.8
31	10.4	12.0	12.9	13.0	22.0	17.0	14.5	15.7	15.0	11.8	12.2	15.4	15.0	17.3	18.6	21.0	21.9	21.0	15.0	10.2	07.3	07.7	07.0	06.5	14.2
Mean	08.8	10.3	12.2	14.2	15.4	14.8	15.5	14.5	13.7	13.1	13.2	13.5	15.8	17.9	21.1	23.6	24.3	25.5	22.7	17.5	13.6	10.5	08.9	08.3	15.4

VERTICAL INTENSITY
Mean values for periods of sixty minutes, Universal Time

Table 21 Victoria

$z = 53,000 \gamma +$

July 1959

Hour U. T. Day	0 to 1	1 to 2	2 to 3	3 to 4	4 to 5	5 to 6	6 to 7	7 to 8	8 to 9	9 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	Mean
1 Q	427	425	425	423	416	410	411	409	407	405	406	409	411	413	415	407	410	404	396	394	400	406	414	428	411
2	427	442	455	459	456	447	436	415	398	399	407	410	411	410	407	399	403	402	395	394	395	402	404	403	416
3 Q	407	416	422	415	411	409	408	406	406	406	407	406	408	411	409	407	405	394	381	377	380	381	383	390	402
4	398	408	413	408	404	401	400	402	403	401	396	384	394	401	407	409	404	386	372	362	369	367	387	401	395
5	412	422	418	421	431	435	422	410	401	401	397	402	407	394	399	401	392	389	382	381	378	380	386	394	402
6	396	406	416	410	405	405	403	405	403	389	385	392	395	387	390	398	398	395	391	382	373	377	385	394	395
7	405	418	422	419	409	403	401	401	395	356	365	366	385	390	396	404									
8	399	404	408	411	409	406	405	402	390	374	376	379	388	379	382	389	389	381	382	380	376	379	385	390	390
9	395	403	399	404	406	405	378	377	397	393	390	394	379	368	392	396	398	395	383	379	372	376	379	397	390
10	420	424	454	447	432	411	407	409	406	404	399	402	405	410	415	419	408	400	390	382	362	356	356	363	403
11	396	408	419	422	419	404	403	395	394	393	391	392	390	381	391	400	403	404	373	372	370	363	373	407	394
12	447	425	421	414	403	400	397	396	400	400	400	400	392	384	380	393	395	394	380	367	353	358	369	378	394
13 Q	388	400	402	397	393	390	390	391	381	386	393	398	396	385	380	373	375	376	374	370	369	379	390	391	386
14	402	403	418	431	428	405	396	398	383	380	374	376	380	370	368	389	397	393	389	376	372	373	376	383	390
15 D	407	436	462	475	461	421	404	405	378	211	206	456*	235*	220*	215*	211	-015*	-010*	229*	564	589	499	554	604	359
16 D	536	513	496	478	447	435	426	405	389	398	396	406	413	412	407	412	420	421	417	417	414	391	391	424	428
17 D	417	414	412	426	436	419	404	405	405	393	377	383	382	373	394	404	396	316	348	395	419	451	428	399	400
18 D	447	444	510	599	542	407	353	289	170	337	384	364	411	431	434	432	417	398	385	398	414	428	447	430	411
19	459	459	453	445	431	405	403	393	390	385	383	393	401	395	399	402	409	424	417	411	408	403	408	411	412
20	416	428	430	423	420	416	409	407	381	379	389	384	401	419	425	430	426	418	405	396	385	376	387	406	406
21	413	419	424	427	418	416	415	411	405	407	406	404	398	405	408	413	411	401	390	375	368	372	383	389	403
22	398	413	409	407	399	404	401	384	384	395	399	398	400	405	402	405	410	408	396	385	383	377	377	391	397
23	417	432	410	403	409	409	405	406	404	398	394	397	397	405	410	412	410	403	396	387	384	386	391	404	403
24	419	426	427	419	415	417	420	426	426	417	403	408	413	414	407	408	409	406	401	399	405	405	419	432	414
25 D	439	444	461	436	436	415	414	421	408	373	385	413	422	422	417	430	425	411	398	413	420	421	423	425	420
26	426	431	453	466	441	431	418	394	365	400	396	402	416	422	419	425	422	419	406	404	411	426	435	461	420
27	443	438	464	443	434	434	429	390	397	388	380	391	410	419	428	436	436	422	410	395	395	408	407	417	417
28	424	443	438	430	419	419	417	412	412	415	409	387	390	399	402	412	410	406	406	404	395	397	404	410	411
29 Q	416	427	427	426	426	421	404	408	410	409	409	401	403	414	421	423	412	400	400	370	377	373	386	398	407
30 Q	405	414	419	415	410	406	405	404	405	405	405	407	409	411	412	410	404	391	382	375	377	378	379	384	400
31	393	398	402	400	401	392	400	405	407	390	359	383	396	395	402	409	407	401	394	389	391	379	376	391	394
Mean	419	425	432	432	425	413	406	399	390	387	386	396	395	395	398	402	393	385	386	393	393	392	399	410	402

HORIZONTAL INTENSITY
Mean values for periods of sixty minutes, Universal Time

Table 22 Victoria

H = 18,500 γ +

August 1959

Hour U. T. Day	0 to 1	1 to 2	2 to 3	3 to 4	4 to 5	5 to 6	6 to 7	7 to 8	8 to 9	9 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	Mean
1	305	295	289	293	294	290	296	302	291	305	309	313	297	316	335	331	328	299	287	271	269	263	276	298	298
2	307	269	306	291	275	291	271	277	295	303	299	300	307	309	306	300	292	268	279	280	283	280	277	290	290
3	295	301	295	293	283	295	312	327	305	309	311	301	285	296	309	319	309	284	263	259	253	279	287	289	294
4	289	289	295	289	293	297	302	309	306	317	285	294	291	300	291	313	302	274	274	269	269	279	267	267	290
5	285	300	297	288	290	295	296	297	299	303	305	303	309	313	301	302	291	267	272	276	285	281	287	297	293
6	301	299	289	298	308	293	306	307	319	311	315	313	303	320	331	327	303	253	263	268	284	281	298	302	300
7	292	283	289	293	289	289	293	292	301	307	309	309	305	309	311	299	283	273	259	252	267	287	294	295	291
8	291	295	297	299	303	305	303	301	299	292	299	305	313	315	314	299	308	284	269	260	257	267	283	284	293
9	287	288	287	298	299	302	306	309	301	311	304	293	285	291	289	280	292	257	246	263	254	270	280	292	287
10	301	299	315	270	289	290	295	299	299	303	303	305	303	311	313	305	298	295	274	267	265	265	270	293	293
11	286	294	301	292	292	301	300	304	308	312	314	318	317	310	306	300	296	294	278	272	270	266	271	287	295
12 Q	302	312	309	308	302	302	306	312	314	308	310	310	308	316	321	310	289	285	283	282	277	284	286	300	302
13 Q	292	308	314	316	318	308	308	314	318	318	322	320	320	324	322	310	296	278	268	272	276	294	300	304	305
14 Q	310	315	316	318	305	312	318	322	324	320	314	316	320	322	318	318	311	295	272	272	268	275	286	302	306
15	302	322	318	310	321	320	325	326	333	317	319	325	324	322	316	311	316	295	286	282	294	308	279	311	312
16 D	324	284	299	304	327	329	320	282	259	265	262	174*	087*	070*	192*	204	106*	187*	210	193	206	262	306	334	241
17 D	459*	451*	444*	325*	238	244	247*	204*	210	152*	102*	196	188	183	195	212	183	236	272	254	224	247	260	289	251
18	278	286	290	299	276	267	274	266	268	280	282	281	282	271	270	286	288	256	256	277	256	262	283	301	276
19	307	320	288	301	296	260	278	258	273	282	286	287	286	290	298	292	296	260	240	254	261	266	268	282	280
20 D	289	301	312	308	326	320	314	334	324	320	314	299	302	302	309	316	315	296	279	278	278	279	280	310	304
21 D	280	297	303	303	284	303	301	299	313	300	307	300	303	299	295	287	269	257	240	255	269	264	280	297	288
22	324	288	291	293	298	305	289	278	290	298	297	299	299	304	305	297	261	249	248	247	225	229	242	267	280
23 D	304	295	304	299	300	289	286	292	298	306	300	301	302	300	295	293	287	262	259	244	248	261	253	294	286
24	297	305	286	289	302	281	291	300	290	291	281	293	295	296	297	289	295	301	290	283	275	268	284	279	290
25	301	295	299	304	290	301	299	310	306	317	307	305	299	301	299	290	283	275	257	245	256	267	270	275	290
26	287	301	299	299	305	308	303	321	314	313	307	307	307	307	307	303	287	276	274	275	274	272	273	280	296
27 Q	291	285	295	304	305	307	305	305	307	305	307	307	309	309	309	303	292	275	255	255	259	272	282	291	293
28 Q	298	301	301	307	306	309	311	313	311	313	312	311	313	315	315	307	287	265	253	260	269	285	301	313	299
29	322	321	308	306	311	317	309	302	303	311	316	311	293	307	299	289	307	275	259	245	253	275	287	301	297
30	322	313	307	307	317	320	319	319	319	311	299	284	282	294	311	309	297	269	266	259	253	259	280	296	296
31	305	301	308	298	305	307	309	311	305	287	286	284	291	299	307	300	286	259	234	227	238	263	273	281	286
Mean	304	304	305	300	298	299	300	300	300	300	296	296	291	294	300	297	286	271	263	261	262	271	279	294	290

DECLINATION
Mean values for periods of sixty minutes, Universal Time

Table 23 Victoria

D = 22° 45.0' E +

August 1959

Hour U. T. Day	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	Mean
	to 1	to 2	to 3	to 4	to 5	to 6	to 7	to 8	to 9	to 10	to 11	to 12	to 13	to 14	to 15	to 16	to 17	to 18	to 19	to 20	to 21	to 22	to 23	to 24		
1	08.5	11.5	13.0	16.0	18.9	15.0	15.0	24.6	13.4	11.2	11.4	10.6	11.7	17.1	20.5	22.4	22.1	20.5	17.5	16.2	13.5	11.3	09.5	08.6	15.0	
2	09.0	10.1	10.9	12.5	16.3	21.0	17.0	17.7	14.4	11.5	12.0	13.0	15.3	17.0	19.5	21.1	21.0	18.5	11.9	09.6	09.3	08.0	07.4	08.5	13.9	
3	10.3	12.4	15.5	13.4	13.0	11.3	16.3	18.4	15.8	13.3	13.0	12.5	18.5	22.0	23.5	28.2	29.1	23.4	15.4	11.3	08.1	08.4	09.3	09.5	15.5	
4	12.0	14.0	14.6	13.5	13.5	13.5	15.0	13.5	12.5	11.1	11.0	13.8	13.8	18.6	16.5	24.5	28.0	23.0	17.0	14.0	11.0	09.6	10.7	10.5	14.8	
5	11.0	11.9	14.5	14.5	13.5	14.0	16.1	12.5	12.1	12.0	12.7	12.2	14.0	16.0	18.5	21.5	23.5	19.8	12.1	11.0	07.7	07.5	09.0	10.3	13.7	
6	12.3	13.6	14.5	19.3	15.8	15.5	15.9	13.6	15.9	16.0	11.6	11.1	16.9	18.7	21.4	23.0	25.0	23.4	11.6	08.4	09.6	06.9	07.8	10.0	14.9	
7	13.2	12.6	14.5	18.2	14.4	14.1	17.6	17.5	11.5	10.9	10.0	08.4	13.1	16.1	19.5	22.1	24.0	22.2	14.0	07.5	04.5	03.1	05.0	07.9	13.4	
8	11.3	13.5	13.8	13.1	13.5	13.8	19.8	18.1	16.9	14.5	13.5	12.5	11.5	17.3	20.5	21.9	22.2	20.9	18.5	15.5	11.4	07.8	07.0	07.9	14.9	
9	08.0	10.0	12.5	12.0	12.5	13.0	13.4	18.5	17.0	14.9	13.8	17.1	19.8	18.4	21.0	21.0	26.5	27.6	20.9	10.9	06.6	06.0	07.4	09.5	14.9	
10	12.5	13.5	13.0	15.7	14.1	13.8	12.8	13.0	13.5	14.9	13.5	13.1	15.6	16.4	20.4	24.0	26.4	24.3	21.0	14.5	11.5	11.4	09.5	07.4	15.2	
11	09.3	10.0	11.0	12.5	11.6	15.4	15.5	13.8	13.0	12.5	13.4	13.3	15.2	18.3	19.6	21.7	22.1	23.0	18.4	14.5	11.7	09.5	09.4	08.5	14.3	
12 Q	10.5	11.4	12.4	13.2	13.5	12.4	12.0	11.6	13.2	14.8	13.9	14.5	14.5	18.9	22.1	25.5	26.5	23.6	19.0	12.8	09.5	08.5	08.2	07.5	14.6	
13 Q	09.5	10.5	11.0	11.0	12.4	12.0	11.9	11.9	13.2	13.5	13.2	13.0	14.5	16.6	18.6	20.9	21.4	20.4	13.9	07.1	05.5	04.5	05.4	06.8	12.4	
14 Q	09.5	10.5	11.5	11.6	11.0	11.5	12.2	12.5	13.0	14.5	15.0	14.9	16.0	17.5	20.9	22.5	20.1	18.8	14.5	09.5	08.4	06.0	05.6	06.5	13.1	
15	10.3	11.0	13.4	11.7	11.0	11.0	11.0	11.7	11.8	14.8	15.4	15.0	16.1	18.0	19.0	20.0	23.0	22.7	14.9	11.4	07.0	03.2	03.0	02.9	12.9	
16 D	03.1	10.6	12.0	10.6	07.9	07.0	19.6	20.0	17.5	22.0*	20.5	12.3	31.5*	03.0*	27.4	28.8	28.0	19.5	20.0	12.9	09.5	08.4	09.7	11.6	15.3	
17 D	13.5	08.5	11.5*	25.0	25.5	16.6	38.4	18.0	24.1	15.6	25.3	17.6	14.0	14.0	24.0	20.5	22.6	26.0	25.0	19.0	15.5	13.0	14.3	11.0	19.1	
18	12.5	13.5	17.8	27.0	21.0	16.3	18.0	19.0	16.1	12.5	13.0	13.4	16.1	18.1	19.4	20.8	24.3	27.2	18.4	13.4	11.6	08.0	06.5	08.6	16.4	
19	11.5	11.2	11.9	18.5	15.8	15.9	15.1	12.9	12.5	11.2	12.0	14.0	15.5	18.3	22.0	23.5	24.5	25.5	21.7	12.6	09.5	08.0	08.5	08.8	15.0	
20 D	10.5	11.5	10.5	12.1	17.5	08.5	08.0	09.1	12.2	13.0	14.4	17.8	19.5	20.8	25.5	26.5	28.4	24.5	19.9	17.1	12.8	08.9	08.0	06.4	15.1	
21 D	07.6	08.5	10.7	10.5	08.9	12.7	19.0	16.0	12.9	07.5	13.1	15.6	16.3	17.0	18.5	19.6	22.2	19.2	20.2	16.3	12.0	09.5	07.0	06.9	13.7	
22	08.8	10.6	12.0	14.5	13.9	17.9	20.0	17.5	14.6	12.5	11.5	12.0	13.5	14.6	18.0	22.4	28.0	25.1	21.4	17.3	13.0	08.0	05.7	04.0	14.9	
23 D	03.7	10.3	10.0	10.5	13.5	14.5	13.5	13.0	12.6	11.5	08.1	10.0	15.0	14.3	16.1	18.5	25.4	24.0	19.0	17.0	12.2	08.9	06.5	06.1	13.1	
24	09.0	09.0	12.5	11.5	14.6	16.0	14.0	14.3	11.1	16.8	12.5	11.1	13.4	15.5	16.5	18.0	21.5	20.5	17.8	13.9	11.5	10.0	07.4	07.5	13.6	
25	08.0	10.5	11.0	12.5	17.1	17.1	13.4	10.3	11.6	14.0	08.9	12.5	15.0	16.8	19.4	20.1	17.5	20.6	20.9	16.5	13.4	11.0	09.6	07.9	14.0	
26	09.6	09.5	11.0	11.0	12.5	14.1	15.5	12.5	12.0	12.1	14.0	15.0	16.0	17.4	19.9	22.1	23.9	22.5	18.0	15.5	13.5	12.0	11.0	09.6	14.6	
27 Q	10.0	12.9	12.0	11.5	11.6	12.1	14.9	12.7	13.0	13.0	13.5	14.0	14.4	16.1	19.0	21.7	22.7	21.0	17.4	12.3	10.4	09.3	08.5	08.7	13.9	
28 Q	10.4	12.0	12.4	12.3	12.5	12.8	14.0	13.5	13.1	13.8	14.3	14.5	15.0	16.5	18.4	20.0	22.0	21.0	17.5	12.1	08.6	06.5	06.1	07.1	13.6	
29	09.1	11.0	11.5	12.8	13.5	13.0	12.5	13.6	14.3	14.0	12.9	07.5	10.3	12.5	09.5	20.1	23.0	19.0	14.1	10.5	11.4	09.9	11.8	14.0	13.0	
30	13.0	14.1	13.0	13.0	14.4	13.0	11.4	09.5	08.5	05.0	05.1	06.1	08.5	15.3	20.5	20.5	23.6	21.4	22.1	14.9	12.6	11.6	10.6	11.9	13.3	
31	13.8	14.4	14.4	12.5	12.0	11.5	12.0	12.5	14.0	15.5	13.5	18.0	14.5	19.4	22.6	23.0	21.5	21.0	18.0	13.6	11.0	09.6	09.0	10.4	14.9	
Mean	10.0	11.4	12.6	14.0	14.1	13.8	15.5	14.6	13.8	13.2	13.1	13.1	15.3	16.5	19.9	22.1	23.9	22.3	17.8	13.2	10.4	08.5	08.2	08.5	14.4	

VERTICAL INTENSITY
Mean values for periods of sixty minutes, Universal Time

Table 24 Victoria

z = 53,000 γ +

August 1959

Hour U. T. Day	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	Mean	
	to 1	to 2	to 3	to 4	to 5	to 6	to 7	to 8	to 9	to 10	to 11	to 12	to 13	to 14	to 15	to 16	to 17	to 18	to 19	to 20	to 21	to 22	to 23	to 24		
1	411	419	419	427	420	408	410	386	379	395	399	400	397	404	416	424	421	406	400	392	386	389	395	409	405	
2	426	418	447	457	461	434	399	416	408	426	423	423	426	426	426	427	426	411	404	397	397	395	399	410	420	
3	419	427	439	448	437	427	422	362	377	407	410	407	384	391	386	397	406	401	389	381	390	406	413	414	406	
4	418	423	426	423	420	419	419	408	411	400	370	394	370	395	384	393	406	393	392	401	413	417	419	425	406	
5	429	432	427	419	417	418	417	417	418	418	418	418	422	424	420	416	412	402	396	388	383	385	397	403	412	
6	416	423	419	423	423	421	417	409	411	396	411	406	391	410	417	414	412	398	393	390	393	402	411	418	409	
7	432	425	430	432	423	420	417	417	418	417	414	395	403	419	424	422	417	408	397	386	389	404	411	422	414	
8	424	424	424	419	418	418	417	415	404	398	387	397	392	417	425	426	426	424	412	406	407	409	418	431	414	
9	436	439	434	422	416	416	417	419	397	408	403	377	389	382	379	366	395	398	394	391	400	414	420	421	406	
10	420	418	441	440	437	430	425	420	421	423	424	425	426	428	426	420	412	406	402	396	402	399	404	419	419	
11	427	437	444	438	428	423	410	414	415	416	416	418	419	422	421	418	414	411	405	387	388	392	401	410	416	
12 Q	414	422	421	419	416	414	415	412	405	410	412	415	415	415	424	422	416	401	388	382	381	387	395	408	409	
13 Q	409	413	415	411	411	411	411	409	407	407	409	408	410	412	412	407	401	387	376	374	375	384	392	401	402	
14 Q	409	414	415	415	408	408	409	407	406	405	408	408	411	412	411	408	404	399	384	378	380	382	390	400	403	
15	406	418	425	415	410	409	405	404	406	409	413	411	410	410	411	402	388	373	368	368	372	382	392	417	401	
16 D	425	418	414	406	410	416	427	354	386	322	357	305	164	168	266	294	306	347	398	401	425	469	567	590	376	
17 D	596	613	616	493*	468	513	404	318	350	334	333	290	328	360	354	340	311	353	432	414	426	446	456	451	417	
18	427	429	440	446	437	472	473	402	418	431	433	434	434	422	401	389	401	403	408	415	413	420	420	429	425	
19	428	435	434	448	445	468	466	455	436	417	412	426	431	435	436	432	431	422	407	406	408	411	412	414	430	
20 D	418	422	430	444	455	448	442	439	425	422	410	415	420	417	419	419	417	413	397	392	386	386	385	404	418	
21 D	409	425	429	425	425	427	417	417	410	367	374	391	408	414	415	414	407	396	396	402	413	422	428	443	411	
22	466	445	434	428	422	413	405	389	416	419	415	414	413	416	424	427	421	412	407	398	394	401	402	402	416	
23 D	415	421	420	419	426	429	442	419	410	399	385	389	383	399	401	408	415	412	409	398	399	405	413	437	411	
24	445	442	440	436	433	431	431	421	374	392	402	409	410	419	422	413	418	416	408	399	395	397	403	408	415	
25	414	416	412	414	414	413	410	401	394	398	378	385	392	405	408	407	404	398	387	386	388	396	405	408	401	
26	416	419	413	409	410	411	408	401	377	385	394	402	406	408	409	406	402	385	376	373	379	388	396	404	399	
27 Q	414	423	418	414	410	409	409	408	404	406	407	409	408	411	410	408	403	391	377	373	376	383	392	402	403	
28 Q	409	408	405	405	403	403	402	402	404	404	404	404	405	406	408	408	405	402	394	385	384	388	396	401	407	402
29	410	404	398	401	404	404	402	403	405	406	407	407	408	413	410	418	423	405	393	400	406	412	414	421	407	
30	421	412	402	403	405	404	403	403	403	403	401	403	402	409	422	429	431	413	392	391	392	395	401	410	414	407
31	411	405	407	405	406	404	405	404	401	393	390	384	397	384	403	405	400	396	389	385	391	402	415	423	400	
Mean	426	429	430	426	423	424	418	405	403	401	401	399	396	402	406	406	404	398	395	391	395	403	412	421	409	

HORIZONTAL INTENSITY
Mean values for periods of sixty minutes, Universal Time

Table 25 Victoria

H = 18,500 γ +

September 1959

Hour U. T. Day	0 to 1	1 to 2	2 to 3	3 to 4	4 to 5	5 to 6	6 to 7	7 to 8	8 to 9	9 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	Mean
1	289	298	285	283	293	292	285	277	290	289	283	293	300	301	301	281	271	267	252	241	227	247	259	282	279
2	306	298	277	263	263	263	289	284	261	251	271	298	297	302	303	289	269	257	233	220	236	249	253	271	271
3	279	280	291	287	284	288	287	293	304	296	292	305	313	310	312	301	285	239	221	273	270	271	252	304	285
4 D	219	301	266	369*	264	279	248	232*	166*	176*	259	220	271	284	209	168	192	226	222	174	197	241	233	258	236
5	269	261	263	264	272	265	282	307	290	287	291	287	282	273	291	279	256	233	214	215	232	251	240	258	265
6	289	261	284	273	279	279	297	298	292	296	303	308	305	296	295	297	283	271	256	247	251	257	263	273	281
7 Q	285	287	293	293	295	297	299	302	309	306	304	305	303	312	309	303	281	275	265	260	261	271	285	289	291
8 Q	295	301	307	304	301	304	309	305	304	300	310	307	313	308	309	303	285	281	273	258	261	262	279	295	295
9 Q	302	306	311	308	301	306	307	309	309	310	308	309	308	306	303	288	281	279	265	263	271	287	297	300	297
10 Q	308	304	309	307	311	311	311	312	316	320	323	327	322	319	317	307	288	282	287	290	303	311	297	309	
11	305	307	308	309	293	303	307	316	314	317	315	311	305	317	310	297	281	270	271	276	285	295	309	317	302
12	273	283	292	297	301	305	303	306	309	313	309	312	310	309	303	281	277	286	275	272	281	288	293	299	295
13	299	297	305	307	307	307	309	312	319	316	317	317	317	316	313	306	295	283	283	288	295	312	283	275	303
14	283	307	285	293	293	282	295	296	285	299	301*	307*	301*	299*	283*	291*	281*	273*	267*	271*	281*	269*	281*	299*	288*
15	297	310	312	309	309	310	310	309	309	308	313	310	315	315	310	293	261	263	271	283	271	276	301	304	299
16	311	307	288	283	289	297	302	301	305	307	311	314	316	310	295	285	287	281	275	277	277	289	301	311	297
17	310	317	315	313	313	311	312	306	312	318	317	315	313	321	307	294	277	271	264	275	249	252	295	297	299
18	303	292	303	296	299	303	306	303	309	326	305	316	312	306	295	291	283	277	249	269	285	293	287	286	296
19	231	273	285	301	286	282	291	295	295	297	303	321	307	309	303	294	285	275	271	273	283	294	299	297	290
20 D	295	299	289	300	277	271	256	277	277	285	281	281	241	231	328	307	295	259	249	233	217	241	247	264	271
21 D	255	277	271	251	281	277	230	237	251	280	298	256	261	252	252	249	235	224	211	214	213	217	243	267	250
22 D	282	283	245	263	271	271	301	343*	316	231	224	261	275	255	229	252	275	255	229	238	248	263	274	275	265
23	280	287	289	290	297	300	283	293	281	285	283	283	295	295	291	259	260	259	221	201	211	251	264	261	272
24	261	278	284	281	273	287	279	286	272	295	299	301	293	280	287	281	265	257	252	243	253	264	277	287	276
25 D	289	284	277	273	263	275	274	269	257	272	289	282	297	279	284	273	243	253	248	253	245	267	267	279	270
26	287	283	263	263	277	285	291	279	289	282	295	284	269	303	305	294	276	262	262	253	255	255	265	267*	277
27	273*	279	283	291	297	285	301	287	283	295	292	287	294	303	293	291	269	281	260	253	262	281	277	285	283
28	297	289	275	287	293	289	283	281	279	300	295	297	300	299	299	289	277	261	241	255	270	269	277	277	282
29 Q	279	282	294	299	299	298	299	298	303	314	303	307	306	307	305	297	291	283	282	285	289	293	289	295	296
30	304	296	301	301	303	303	302	300	303	317	305	298	298	305	303	300	293	280	257	247	261	276	282	286	293
31																									
Mean	285	291	288	292	289	291	292	294	290	293	297	297	298	298	295	285	274	266	254	253	258	269	276	285	284

DECLINATION
Mean values for periods of sixty minutes, Universal Time

Table 26 Victoria

D = 22° 45.0' E +

September 1959

Hour U. T. Day	0 to 1	1 to 2	2 to 3	3 to 4	4 to 5	5 to 6	6 to 7	7 to 8	8 to 9	9 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	Mean	
1	12.5	14.3	11.1	13.9	13.1	13.9	15.1	16.0	16.0	15.9	14.5	11.4	13.7	17.4	21.1	18.8	18.1	14.9	13.0	10.5	06.6	05.5	07.0	10.6	13.5	
2	12.5	13.5	12.5	12.0	19.1	16.0	15.0	14.8	21.5	19.5	19.4	17.6	17.9	19.3	21.5	23.0	23.5	20.2	17.5	14.0	09.5	11.3	10.5	10.5	16.3	
3	12.5	14.0	13.4	12.9	14.9	13.3	15.0	13.8	13.4	19.4	18.5	14.5	14.9	16.9	17.5	18.6	19.5	17.5	08.1	04.3	07.0	08.6	12.0	08.4	13.7	
4 D	12.0	04.0	10.5	05.5*	21.5	20.7	29.1	23.8	17.5*	28.5	21.5	12.0	14.3	20.5	21.5	11.6	11.8	15.3	22.3	15.4	07.5	09.5	09.6	09.0	15.6	
5	11.6	12.2	18.2	11.9	12.9	15.5	18.4	13.4	09.9	13.7	15.5	15.5	14.0	11.5	20.0	23.4	24.5	23.5	19.4	14.1	11.5	10.0	10.5	09.4	15.0	
6	07.3	10.5	11.0	13.2	13.0	16.9	15.0	12.4	11.5	13.8	12.5	14.0	13.5	13.2	17.0	20.6	22.5	22.0	18.8	15.2	12.0	09.6	08.8	09.0	13.9	
7 Q	10.4	12.1	12.6	13.1	14.0	14.5	13.5	13.5	13.5	14.0	14.5	14.5	15.9	16.7	18.8	21.5	22.5	19.9	20.0	16.4	12.5	09.8	08.0	08.9	14.6	
8 Q	09.9	11.1	12.5	13.2	13.0	13.5	15.4	16.5	14.0	12.8	10.9	13.3	14.5	17.5	20.3	21.5	23.6	22.8	16.5	12.0	11.5	10.8	09.6	10.0	14.4	
9 Q	10.0	11.0	12.0	12.1	12.5	12.7	13.1	13.4	13.5	14.1	15.8	15.3	16.0	17.5	19.3	21.0	20.6	20.0	16.5	13.0	10.5	09.5	09.6	11.1	14.2	
10 Q	10.1	11.0	11.0	11.5	11.8	12.3	13.1	13.5	13.5	14.3	15.1	16.0	16.0	17.1	19.3	20.3	21.5	21.9	17.4	13.9	11.1	08.4	07.0	09.5	14.0	
11	10.6	11.0	09.7	08.8	11.9	11.0	12.3	13.5	14.0	15.2	15.9	14.0	16.5	18.8	21.8	20.4	19.1	17.9	15.7	12.9	10.0	09.0	09.7	09.0	13.7	
12	08.6	08.9	11.6	13.0	12.0	11.6	12.6	13.2	15.0	14.3	16.5	13.8	15.0	16.5	17.9	17.1	14.5	14.4	13.6	12.9	13.0	12.5	12.0	10.9	13.4	
13	10.7	11.3	11.0	11.4	12.0	13.0	14.5	14.5	14.6	14.4	15.4	15.5	15.9	16.9	19.0	20.3	21.0	20.6	17.0	12.5	09.8	08.5	08.7	08.0	14.0	
14	10.1	09.0	09.8	10.5	09.5	12.0	12.5	23.8	17.5	13.5	13.3	11.3*	12.7*	14.6*	13.9*	16.5*	19.6*	15.3*	11.7*	08.2*	08.0*	07.8*	09.5*	09.0*	12.5*	
15	11.0	10.8	11.1	11.7	12.1	12.0	12.0	14.5	16.3	14.0	14.8	16.7	15.2	19.2	20.4	21.5	21.0	14.5	11.1	09.3	09.1	07.8	10.2	11.0	13.6	
16	10.6	09.6	09.5	05.6	14.1	14.5	11.8	11.5	12.4	13.5	14.5	15.0	15.0	16.5	17.8	16.7	18.4	18.2	15.7	13.2	11.6	10.5	10.0	10.2	13.2	
17	13.0	12.1	12.0	12.0	11.6	13.4	14.0	13.0	13.9	14.6	16.9	20.9	19.0	19.4	21.1	20.9	21.1	21.7	18.2	12.0	12.0	03.4	05.5	09.5	14.6	
18	08.9	10.1	11.0	11.1	12.0	12.6	13.0	13.1	14.5	15.5	12.6	17.5	19.5	15.1	16.0	18.4	20.1	18.2	12.8	06.5	09.0	08.5	05.9	07.4	12.9	
19	07.0	06.0	11.9	14.5	21.7	13.9	11.5	12.0	12.7	14.0	14.5	16.6	19.0	18.0	19.1	18.0	19.5	17.9	14.7	11.5	09.9	09.0	08.7	10.6	13.8	
20 D	12.9	14.0	15.1	15.0	16.5	23.0	20.0	14.2	16.0	17.4	18.5	19.5	19.5	13.5	16.1	15.7	19.7	13.4	09.1	08.5	09.0	08.3	11.0	11.0	14.9	
21 D	15.0	16.8	22.0	14.5	15.0	14.5	20.9	21.0	13.5	18.0	18.5	10.1	12.5	12.9	17.0	15.5	22.0	23.0	20.0	15.9	12.5	10.6	10.1	11.0	15.9	
22 D	08.8	08.0	14.0	11.0	17.0	23.5	31.0*	36.5*	09.0*	15.0*	15.1	14.9	16.7	21.0	14.1	21.0	21.4	21.5	19.0	15.5	13.3	12.6	13.0	13.7	16.9	
23	14.4	14.1	13.5	13.5	20.8	15.5	14.5	15.9	18.4	18.5	17.6	12.5	17.6	19.1	19.5	18.3	13.1	16.0	14.0	08.5	06.0	06.5	07.1	10.5	14.4	
24	12.6	13.0	14.1	11.5	18.6	19.5	15.0	15.7	10.4	16.4	15.0	14.9	12.5	09.0	21.6	20.6	19.9	21.4	16.8	14.8	12.5	11.5	12.0	11.5	15.0	
25 D	11.0	16.5	13.3	11.5	14.7	12.5	15.6	19.5	22.0	19.5	21.5	19.6	15.1	12.5	14.4	12.1	13.2	09.0	10.7	11.6	11.1	11.6	13.1	12.4	14.3	
26	12.0	10.6	14.0	12.8	15.5	14.0	15.0	13.0	22.0	22.5	18.6	17.9	11.5	18.5	19.6	20.1	18.5	16.7	16.5	14.9	13.5	11.9	11.0	11.0*	15.5	
27	09.5*	10.0	10.6	12.1	12.5	13.5	20.5	14.7	18.1	12.5	11.9	17.5	21.4	16.6	14.0	16.9	13.5	18.1	17.0	15.5	12.9	11.3	11.5	12.4	14.4	
28	11.0	11.6	13.0	12.4	13.0	13.9	15.3	15.8	12.6	20.1	18.3	15.6	13.6	15.5	16.6	18.5	21.0	18.6	12.5	11.7	12.0	10.5	09.9	10.9	14.3	
29 Q	10.3	12.0	14.6	13.1	12.8	12.3	12.9	13.6	14.4	19.0	18.2	16.5	13.0	11.4	13.8	18.3	18.1	16.9	15.7	15.1	14.6	13.5	12.8	12.3	14.4	
30	11.1	12.0	11.6	12.1	12.5	12.5	12.8	13.6	14.5	15.1	23.5	20.0	13.0	11.8	11.2	14.0	15.9	15.7	17.0	12.9	08.5	08.5	09.4	10.5	13.3	
31																										
Mean	10.9	11.4	12.6	11.9	14.4	14.6	15.7	15.8	14.9	16.3	16.3	15.5	15.5	16.1	18.0	18.7	19.3	18.2	15.6	12.4	10.6	09.6	09.8	10.3	14.3	

VERTICAL INTENSITY
 Mean values for periods of sixty minutes, Universal Time

Table 27 Victoria

z = 53,000 γ +

September 1959

Hour U. T. Day	0 to 1	1 to 2	2 to 3	3 to 4	4 to 5	5 to 6	6 to 7	7 to 8	8 to 9	9 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	Mean	
1	425	428	430	431	424	421	415	410	418	412	406	381	398	400	403	402	375	374	382	393	403	409	412	412	407	
2	424	436	447	456	473	453	388	393	364	338	389	416	423	425	425	421	410	407	407	408	420	421	421	428	416	
3	428	430	426	419	418	418	420	421	402	372	385	396	402	407	416	408	401	393	383	400	395	406	413	451	409	
4 D	460	496	514	603	510	490	482	418	170	238	392	371	392	424	381	303	314	363	406	411	426	451	470	487	416	
5	481	477	488	452	442	444	433	395	389	377	401	414	409	388	392	410	408	406	404	409	413	415	430	453	422	
6	464	448	446	438	435	434	421	406	396	408	410	412	416	414	415	419	420	416	411	401	399	403	407	413	419	
7 Q	414	416	415	413	413	413	412	413	416	413	408	408	408	411	410	410	406	398	388	385	394	400	403	405	407	
8 Q	406	408	410	411	411	411	412	408	412	408	395	401	400	400	403	409	407	410	403	399	399	403	406	413	406	
9 Q	411	410	411	411	408	408	407	408	409	410	410	411	409	409	410	403	397	391	391	388	387	391	395	403	404	
10 Q	395	403	404	404	404	406	407	407	408	409	408	407	407	406	409	411	406	400	399	396	394	396	394	390	403	
11	393	394	400	407	416	408	411	408	401	394	388	373	362	376	383	391	395	391	391	391	393	395	395	399	394	
12	397	403	421	416	407	403	404	404	402	399	393	398	395	398	400	394	392	393	389	388	387	394	395	397	399	
13	398	400	402	399	398	398	398	397	394	394	395	396	396	396	396	396	393	386	376	373	370	373	381	390	391	
14	392	401	398	401	409	423	418	408	403	410	406	396*	388*	395*	386*	383*	379*	376*	381*	386*	393*	393*	402*	404*	397	
15	400	402	402	399	399	399	405	407	398	403	401	398	398	395	397	391	379	376	374	379	379	397	402	400	395	
16	402	412	416	434	439	423	418	412	409	406	404	403	403	403	402	395	391	393	387	387	389	393	394	401	405	
17	402	403	400	401	403	407	408	412	412	408	391	394	401	405	403	402	407	399	384	382	372	383	395	395	399	
18	398	395	401	397	398	398	401	404	403	377	350	369	378	378	371	377	378	372	364	374	380	384	391	407	385	
19	404	425	426	421	417	427	416	402	399	399	396	391	384	394	393	396	395	394	388	386	390	395	392	394	401	
20 D	395	398	394	395	396	388	393	373	353	373	360	310	245	205	284	316	356	363	355	366	385	415	429	445	362	
21 D	447	447	452	459	452	388	371	399	296	363	374	319	330	313	352	352	354	395	403	407	406	412	418	426	389	
22 D	424	429	476	473	513	505	476	302	294	274	290	341	368	380	355	366	380	382	383	399	410	414	411	411	394	
23	404	404	404	402	404	396	400	397	377	383	391	374	380	392	385	371	368	377	383	389	399	416	426	430	394	
24	423	418	426	422	427	411	409	409	382	386	401	401	378	299	315	373	388	391	393	395	403	412	410	415	395	
25 D	421	446	430	436	433	410	396	409	400	382	361	357	375	352	331	329	334	348	374	389	401	411	427	429	391	
26	418	419	422	423	421	415	404	384	381	386	392	368	319	364	393	401	401	399	396	397	399	407	413	418*	398	
27	417*	420	415	409	413	408	383	395	394	352	356	364	363	337	360	363	384	392	392	397	405	407	406	408	389	
28	409	410	413	413	411	412	411	405	382	383	395	399	397	397	394	399	401	401	397	393	390	394	400	406	400	
29 Q	406	409	411	407	405	401	400	402	403	387	389	395	391	388	381	385	390	391	395	397	400	403	399	396	397	
30	397	398	398	398	398	399	400	401	402	395	373	376	386	374	369	369	375	378	382	379	379	386	393	400	388	
31																										
Mean	415	420	423	425	423	417	411	400	382	381	387	385	383	381	384	385	386	388	389	391	395	403	408	414	399	

HORIZONTAL INTENSITY
Mean values for periods of sixty minutes, Universal Time

Table 28 Victoria

H = 18,500 γ +

October 1959

Hour U. T. Day	0 to 1	1 to 2	2 to 3	3 to 4	4 to 5	5 to 6	6 to 7	7 to 8	8 to 9	9 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	Mean
1 D	287	279	281	277	270	283	263	317	271	277	253	264	261	283	273	261	283	276	248	232	245	252	267	287	270
2	291	282	281	290	267	254	275	279	309	303	303	307	313	311	309	309	310	307	301	298	299	303	301	304	296
3 D	305	305	301	301	303	287	279	259	284	289	291	292	300	299	279	261	246	231	239	238	233	233	238	254	273
4 D	265	269	261	255	250	249	264	267	303	265	265	255	255	231	295	295	283	275	261	232	219	243	269	263	262
5	270	279	261	262	263	269	285	283	284	289	299	285	287	308	303	301	302	268	283	268	248	251	270	279	279
6 D	251	273	280	296	291	265	241	243	237*	232*	227	266	251	275	291	272	263	285	287	264	236	252	277	281*	264
7	288	287	289	274	279	292	299	294	295	291	290	291	304	299	303	297	291	281	272	261	261	256	257	279	285
8	285	299	294	300	292	299	302	306	305	305	311	310	309	308	302	289	288	283	273	264	263	269	277	289	293
9	298	297	302	304	307	311	304	304	294	302	305	311	315	315	313	306	300	294	285	270	273	286	294	298	300
10 Q	299	302	303	308	306	307	307	305	311	315	318	319	320	318	316	310	306	296	293	301	304	300	296	296	306
11 Q	302	313	315	316	316	314	314	315	315	317	318	321	323	322	319	308	300	297	295	296	295	294	294	299	309
12	308	314	317	319	318	318	318	320	322	324	327	328	326	326	321	312	304	305	292	282	280	292	294	298	311
13 Q	301	311	317	318	318	318	315	318	320	324	327	332	331	326	321	314	306	300	297	299	308	310	309	310	315
14	307	310	316	316	318	319	319	320	321	320	322	332	329	329	324	314	303	290	275	278	296	305	310	305	312
15	298	300	306	311	301	307	305	310	306	315	323	317	313	311	314	305	292	278	267	264	271	267	281	294	298
16 Q	301	300	307	309	310	311	313	312	314	316	316	317	319	318	320	309	303	297	286	282	286	299	303	310	307
17	316	322	327	328	328	325	322	318	324	328	328	324	328	324	324	316	302	297	293	282	292	298	302	310	315
18	301	295	274	293	291	301	304	308	318	308	287	303	297	302	300	297	275	276	270	254	247	250	270	276	287
19	291	301	298	298	313	298	298	300	302	300	308	305	306	306	307	302	296	283	264	268	273	278	291	288	295
20	288	310	313	313	311	308	297	304	293	304	308	308	311	311	310	305	294	283	274	273	281	287	293	297	299
21	302	309	313	312	311	311	311	313	315	317	320	320	320	320	323	322	314	305	295	292	291	298	289	294	309
22	300	305	304	305	306	295	295	288	294	294	300	299	304	294	282	288	267	290	279	264	266	270	282	270	289
23	278	272	269	274	283	294	298	294	291	288	291	304	311	311	311	306	296	287	279	276	272	272	279	286	288
24	294	302	306	306	308	308	311	311	308	315	317	320	317	322	330	325	317	308	298	288	286	283	292	286	307
25	290	291	288	285	280	290	285	288	296	282	279	322	300	313	321	309	297	300	298	291	284	288	281	262	292
26	276	283	294	299	288	282	281	282	295	314	298	311	315	298	282	298	298	302	292	285	290	282	279	287	292
27	293	295	294	292	289	302	298	288	282	278	296	300	307	306	299	302	299	291	288	285	285	288	296	300	294
28 Q	304*	307	308	310	309	310	304	317	321	315	317	320	322	321	320	317	310	303	290	281	282	290	299	308	308
29	312	314	315	312	311	310	310	309	315	315	315	322	324	324	322	319	316	308	297	293	293	299	308	321	312
30	331	303	276	293	321	319	310	308	314	327	330	329	331	326	322	321	321	313	308	288	281	270	266	260	307
31 D	300	294	293	290	284	286	286	295	281	281	286	244	267	312	297	288	279	269	250	251	222	222	248	262	274
Mean	295	298	297	299	298	298	297	299	301	302	302	306	307	309	308	303	296	290	282	274	273	277	284	289	295

DECLINATION

Mean values for periods of sixty minutes, Universal Time

Table 29 Victoria

D = 22° 45.0' E +

October 1959

Hour U. T. Day	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	Mean
	to 1	to 2	to 3	to 4	to 5	to 6	to 7	to 8	to 9	to 10	to 11	to 12	to 13	to 14	to 15	to 16	to 17	to 18	to 19	to 20	to 21	to 22	to 23	to 24		
1 D	11.0	13.0	12.9	12.3	08.8	16.6	20.5	22.1	19.5	20.0	24.9	34.7	25.8	20.5	12.1	10.6	16.4	17.5	13.9	12.5	10.6	11.5	11.6	13.1	16.3	
2	12.5	13.0	12.4	12.7	19.0	21.0	18.5	17.5	15.9	17.9	16.7	17.0	14.1	17.0	19.1	20.4	21.0	19.0	19.0	16.2	13.5	11.3	11.5	11.2	16.1	
3 D	11.3	11.5	12.2	12.5	12.0	14.4	17.4	11.1	17.4	18.3	16.1	15.6	23.5	24.0	21.5	09.0	13.4	03.5	06.0	09.9	12.7	11.5	10.5	12.5	13.7	
4 D	13.4	07.5	08.2	11.5	29.0	14.9	14.7	17.2	23.1	23.0	13.9	11.4	08.9	09.5	16.1	17.0	16.5	17.4	17.6	16.1	11.2	09.8	10.1	11.0	14.5	
5	09.5	11.5	13.1	12.2	14.5	14.8	14.0	14.3	14.9	16.0	16.0	17.5	17.4	19.1	17.5	13.0	13.5	15.0	10.4	12.0	10.9	11.6	11.5	12.2	13.8	
6 D	11.7	12.0	13.5	16.8	14.9	14.9	20.0	22.0	19.5	22.6	33.4	22.9	12.0	13.5	14.1	15.3	16.6	16.2	16.6	17.5	15.5	14.0	13.5	13.5	16.8	
7	13.4	13.9	13.5	16.0	14.9	19.0	15.1	15.6	15.6	14.0	14.6	11.5	15.4	14.9	18.0	20.5	22.0	21.9	19.2	16.3	14.0	12.0	12.0	09.9	15.5	
8	10.3	11.6	15.4	13.3	14.9	14.3	13.1	13.3	13.4	13.5	10.1	14.3	14.0	14.9	15.7	14.9	16.8	17.5	17.5	16.4	14.6	12.5	11.2	10.3	13.9	
9	10.8	11.7	12.3	13.1	13.0	13.1	14.0	14.3	16.2	14.9	14.5	14.9	14.8	15.3	15.8	16.8	16.8	18.2	16.8	15.4	12.1	10.3	10.0	10.0	14.0	
10 Q	10.1	10.1	11.4	12.2	12.5	13.1	13.0	13.0	14.0	14.0	14.0	14.5	14.2	14.5	15.4	16.5	19.2	20.0	16.5	13.5	12.5	12.0	11.1	10.9	13.7	
11 Q	10.8	10.8	11.5	11.6	12.0	12.4	12.3	13.1	13.4	13.6	14.0	14.0	14.0	15.0	16.0	17.5	18.0	16.4	14.0	11.8	10.5	09.6	09.9	09.8	13.0	
12	09.6	10.5	11.1	12.0	12.5	12.9	13.0	13.2	13.5	13.8	14.1	14.4	14.8	15.4	16.5	18.4	20.6	17.8	17.9	16.4	11.5	09.6	11.0	10.8	13.8	
13 Q	10.7	11.0	11.5	11.7	12.0	12.5	12.5	12.0	13.0	13.5	14.2	14.5	14.5	15.0	15.6	16.4	17.5	17.7	16.2	12.8	10.7	11.0	11.8	11.9	13.3	
14	12.2	11.3	11.7	12.6	13.0	13.0	13.0	14.5	13.5	15.0	17.8	19.0	18.1	18.5	16.5	18.0	18.2	19.0	15.6	11.5	09.4	09.0	09.2	08.9	14.1	
15	08.0	08.1	10.8	12.7	12.9	13.2	14.4	15.1	15.5	14.0	14.7	13.2	14.0	10.3	15.8	16.0	17.9	19.3	17.3	14.5	12.3	11.8	10.0	11.5	13.5	
16 Q	10.8	11.5	12.5	12.7	13.0	12.9	12.8	13.0	13.3	13.9	14.5	14.5	14.5	15.1	16.1	17.8	18.5	19.0	18.3	15.0	12.4	11.5	11.7	11.3	14.0	
17	11.5	11.5	11.8	12.0	12.5	12.5	12.2	12.9	14.0	16.7	17.8	18.2	17.5	17.2	18.1	17.5	19.4	20.2	16.2	12.5	09.0	08.0	07.5	09.6	14.0	
18	08.6	06.5	09.5	13.0	13.5	13.1	14.0	14.1	18.9	08.4	06.3	20.9	15.5	12.6	15.1	18.5	19.0	15.5	13.5	11.2	08.6	08.3	08.0	09.4	12.6	
19	11.9	12.3	12.4	12.8	17.5	13.6	13.3	13.2	13.5	15.3	10.1	13.4	14.1	13.9	15.4	17.6	19.3	20.5	18.7	16.5	13.6	11.7	10.5	10.3	14.2	
20	12.2*	12.0	12.6	12.9	13.1	12.5	14.8	10.1	18.5	16.4	15.3	13.5	13.9	14.8	15.8	16.7	18.0	19.5	18.5	15.0	12.2	11.7	12.0	12.2	14.3	
21	11.5	12.1	12.7	13.2	13.2	13.3	13.4	13.0	13.1	13.2	13.4	13.0	13.7	14.0	15.0	16.9	17.3	17.8	17.0	14.7	11.5	09.4	11.1	11.3	13.5	
22	11.3*	11.5	13.2	12.7	12.7	12.5	14.9	18.8	17.9	20.7	21.4	19.9	13.4	09.2	05.0	07.1	09.9	12.3	14.1	14.0	10.4	10.4	09.5	08.5	13.0	
23	11.3	11.6	12.3	14.5	13.5	14.2	13.8	15.7	20.5	21.0	16.3	17.3	15.2	14.2	15.0	15.6	16.3	17.0	16.3	15.2	14.0	13.1	12.3	11.5	14.9	
24	11.7	12.3	12.9	12.8	13.3	13.3	13.5	13.1	12.3	15.9	15.3	14.0	12.8	10.3	14.5	17.2	17.2	18.2	16.5	14.8	13.5	12.3	11.1	11.7	13.8	
25	11.2	10.6	11.0	13.8	13.4	13.4	15.5	16.5	18.0	15.3	12.5	22.5	19.0	10.6	13.7	14.3	10.4	14.2	15.3	14.0	13.4	12.5	11.8	12.0	14.0	
26	10.2	11.6	12.7	13.1	14.4	14.7	16.3	19.2	19.9	23.3	21.2	14.4	16.5	14.2	05.1	04.2	04.5	11.6	17.0	15.4	15.0	14.4	14.0	13.7	14.0	
27	12.6	12.6	12.6	13.4	16.6	18.4	16.3	17.1	23.2	20.7	15.4	13.8	14.0	15.4	14.9	16.3	18.7	19.2	18.4	11.8	15.0	13.5	12.8	13.4	15.7	
28 Q	13.1	12.7	13.0	13.1	13.2	13.2	14.4	14.5	14.4	16.3	15.8	15.4	15.4	15.3	16.0	17.5	18.1	19.5	20.0	17.5	15.2	13.0	12.4	11.9	15.0	
29	12.4	12.2	12.6	12.9	13.0	14.6	14.6	14.5	14.7	14.8	14.7	13.5	13.8	15.1	15.4	15.2	17.3	18.2	17.1	15.1	13.2	12.4	12.3	11.7	14.2	
30	10.9	10.6	10.5	13.8	12.9	12.6	13.1	13.0	12.8	13.7	14.2	15.3	15.6	16.0	15.3	16.5	17.2	17.5	13.0	13.1	12.0	08.8	06.9	08.0	13.1	
31 D	10.3	12.3	14.2	14.3	13.9	13.3	13.7	17.0	18.7	17.8	21.5	14.0	18.5	21.0	11.0	08.0	09.2	14.9	11.2	10.8	11.9	11.5	11.4	11.3	13.8	
Mean	11.2	11.3	12.2	13.0	14.1	14.1	14.6	15.0	16.2	16.4	16.0	16.2	15.4	15.0	15.1	15.4	16.6	17.1	16.0	14.2	12.4	11.3	11.0	11.1	14.2	

VERTICAL INTENSITY
Mean values for periods of sixty minutes, Universal Time

Table 30 Victoria

z = 53,000 γ +

October 1959

Hour U. T. Day	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	Mean
	to 1	to 2	to 3	to 4	to 5	to 6	to 7	to 8	to 9	to 10	to 11	to 12	to 13	to 14	to 15	to 16	to 17	to 18	to 19	to 20	to 21	to 22	to 23	to 24	
1 D	402	407	409	420	446	435	437	340	379	390	348	297	325	360	365	353	380	396	399	398	410	412	415	412	389
2	411	407	403	406	426	443	435	431	398	381	405	403	398	400	404	408	407	402	395	391	384	386	389	390	404
3 D	389	391	394	396	400	412	429	410	368	411	412	397	381	381	370	359	358	356	361	380	408	439	457	480	397
4 D	468	458	473	517	476	453	438	429	378	351	360	342	293	257	338	377	387	397	404	397	402	413	420	419	402
5	418	422	432	455	466	458	439	427	422	410	387	390	368	355	376	384	391	386	396	398	401	423	426	433	411
6 D	426	428	440	440	455	471	410	406	339	273	347	388	348	359	373	383	392	412	417	417	421	431	432	436*	402
7	420	416	416	418	423	421	413	414	416	413	403	393	405	408	410	413	412	406	397	394	398	399	409	396	409
8	415	419	415	425	420	421	419	419	418	415	403	406	411	411	409	411	413	409	406	406	406	406	409	413	413
9	416	418	419	417	415	414	413	411	409	411	412	412	411	411	411	414	415	412	407	404	403	404	409	410	412
10 Q	411	414	413	413	414	415	415	415	415	412	411	411	412	412	414	414	415	409	402	398	403	405	406	406	411
11 Q	408	413	415	413	412	410	412	413	412	412	411	411	411	409	409	410	407	404	397	393	393	399	402	403	407
12	405	407	410	410	408	407	408	408	407	408	407	407	405	407	408	409	409	406	399	390	388	391	395	399	404
13 Q	403	406	410	410	409	410	411	413	410	410	409	409	407	406	407	410	411	409	405	400	398	399	401	402	407
14	402	405	409	409	410	409	409	408	410	410	404	397	392	392	397	400	403	401	394	392	398	402	404	404	402
15	407	410	418	421	424	425	421	418	418	415	403	403	399	400	403	411	414	409	407	404	407	412	407	408	411
16 Q	408	409	413	412	412	412	412	411	410	410	409	409	409	409	411	414	413	408	402	397	397	399	402	402	408
17	402	406	407	407	406	406	407	409	404	395	374	390	398	396	402	406	405	402	397	385	386	396	398	406	400
18	405	413	437	435	428	421	417	413	401	352	334	390	398	393	391	403	405	410	408	399	400	411	420	420	404
19	418	421	420	426	419	421	420	420	415	413	400	399	408	409	413	415	415	410	401	399	399	400	404	408	411
20	409	411	409	407	405	407	408	395	400	407	405	404	404	405	404	407	410	408	400	395	393	391	395	400	403
21	403	405	405	403	403	403	404	404	404	404	403	403	402	401	401	403	407	409	404	395	393	395	394	399	402
22	405	407	406	406	405	405	407	397	401	391	381	355	349	361	353	361	377	383	392	396	403	410	419	419	391
23	426	427	434	437	435	428	419	415	409	396	388	386	399	405	406	408	409	409	406	402	400	403	406	407	411
24	408	411	410	408	407	407	407	405	395	400	403	400	395	383	383	394	401	400	397	393	390	392	399	399	399
25	403	407	411	423	429	423	422	416	420	407	352	357	355	373	385	394	398	399	397	399	399	403	407	411	399
26	418	419	419	415	419	423	434	425	412	389	380	397	391	384	363	332	345	374	388	395	400	407	412	415	398
27	412	411	415	415	415	405	407	408	399	395	396	397	399	397	400	407	406	405	401	399	400	404	404	407	404
28 Q	405	406	407	407	407	407	409	405	397	400	402	402	402	402	404	405	406	403	397	391	394	398	393	395	402
29	398	399	401	402	402	404	402	404	402	400	399	398	396	395	400	404	405	401	394	390	390	392	393	397	399
30	397	397	407	427	416	408	404	401	401	400	399	397	396	394	395	398	401	400	393	387	391	393	400	412	401
31 D	413	414	409	407	406	407	408	407	403	384	382	319	268	329	340	332	355	370	375	380	387	400	423	425	381
Mean	411	412	416	420	420	419	416	410	402	396	391	389	385	387	392	395	399	400	398	396	398	404	408	411	403

HORIZONTAL INTENSITY
 Mean values for periods of sixty minutes, Universal Time

Table 31 Victoria

H = 18,500 γ +

November 1959

Hour U. T. Day	0 to 1	1 to 2	2 to 3	3 to 4	4 to 5	5 to 6	6 to 7	7 to 8	8 to 9	9 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	Mean
1 D	279	280	270	281	264	246	262	292	240	268	264	280	241	248	290	282	268	266	274	267	255	275	270	269	268
2 D	272	262	249	244	244	259	252	284	256	277	266	264	224	290	284	287	274	238	239	254	254	243	266	261	260
3 D	272	272	277	292	280	277	306	272	267	276	282	300	296	270	268	248	256	237	218	235	231	242	246	265	266
4	284	289	293	294	293	287	288	291	278	284	288	284	305	284	278	272	287	286	268	198	200	233	262	262	274
5	277	273	264	283	298	288	283	270	262	280	262	270	292	286	284	290	278	273	265	260	260	271	284	292	277
6	294	273	266	287	291	292	310	284	295	298	305	308	316	306	304	292	276	264	254	246	246	234	267	286	283
7	297	302	303	300	288	299	305	306	306	309	306	306	304	309	312	304	305	288	262	251	236	262	280	305	294
8	306	310	309	283	288	288	302	302	302	306	300	314	314	302	294	318	314	294	273	280	274	278	286	294	297
9	299	304	306	315	316	313	310	315	318	318	318	318	319	322	326	322	320	308	304	290	278	273	285	293	308
10	294	300	310	312	312	311	309	309	315	314	313	315	316	317	316	316	314	313	304	289	279	273	274	294	305
11 Q	301	302	305	306	308	309	310	310	310	310	316	316	316	316	315	313	310	303	295	288	280	278	285	295	304
12 Q																						286	295	296	
13	304	313	314	314	313	310	301	300	308	314	320	327	332	330	328	328	329	320	314	306	300	302	302	306	314
14	316	312	300	287	301	302	299	311	324	316	310	285	292	310	303	286	283	282	290	278	269	272	282	290	296
15 Q	292	298	300	302	304	304	303	304	305	306	306	308	310	310	310	306	298	286	276	270	272	280	288	298	297
16	306	310	312	312	311	311	312	315	315	317	316	316	317	319	314	315	306	278	279	269	265	270	280	290	302
17	296	297	291	287	272	282	296	303	305	304	303	310	304	312	305	300	290	284	282	281	278	285	292	290	294
18	293	295	292	287	283	288	291	284	281	294	295	306	311	314	306	307	300	278	248	265	279	276	286	294	290
19	301	304	306	306	300	294	300	285	282	288	295	300	303	314	305	306	306	292	278	269	272	277	283	292	294
20 Q	298	290	292	302	300	298	296	301	304	306	310	311	312	313	312	310	305	299	294	285	278	284	294	304	300
21	307	309	310	300	294	300	298	304	297	313	305	303	308	320	314	300	289	282	265	249	256	266	280	284	294
22	277	280	280	268	288	290	291	288	294	294	297	292	307	318	317	319	314	298	282	273	276	278	288	291	292
23	294	277	270	279	268	248	268	251	272	261	279	282	289	271	254	296	292	280	269	249	246	273	284	290	273
24 Q	292	292	287	292	295	292	297	300	302	302	304	306	307	303	304	308	302	294	283	275	270	272	284	290	294
25	292	296	301	302	300	300	297	297	296	292	294	301	305	312	312	312	314	308	302	290	275	267	270	276	296
26	287	294	290	288	284	283	282	304	287	290	292	288	296	303	304	305	300	300	296	291	287	284	278	284	292
27	291	296	296	299	302	300	289	284	292	295	296	295	300	296	298	296	297	291	284	270	273	278	280	297	291
28 D	304	327	328	333	388	432	212	234	226	244	052	214	236	254	266	268	272	269	256	238	232	235	244	246	263
29	249	250	250	258	263	267	269	268	268	269	270	254	256	262	270	290	287	283	251	244	245	254	263	271	263
30 D	282	280	274	273	276	284	285	278	281	264	276	260	259	267	261	269	256	230	239	238	246	247	260	265	265
31																									
Mean	292	293	291	293	294	295	290	291	289	293	288	294	296	299	298	299	295	284	274	265	262	268	278	282	288

DECLINATION
Mean values for periods of sixty minutes, Universal Time

Table 32 Victoria

D = 22° 45.0' E +

November 1959

Hour U. T. Day	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	Mean
	to 1	to 2	to 3	to 4	to 5	to 6	to 7	to 8	to 9	to 10	to 11	to 12	to 13	to 14	to 15	to 16	to 17	to 18	to 19	to 20	to 21	to 22	to 23	to 24		
1 D	11.3	12.2	15.2	14.6	15.2	22.5	16.5	21.9	22.0	22.0	25.2	24.0	11.9	17.0	09.0	08.1	10.0	08.6	12.5	13.0	12.5	15.5	17.0	17.0	15.6	
2 D	17.8	16.5	16.5	20.5	19.1	20.3	23.5	28.5	33.9	19.5	14.0	13.4	04.6	07.5	14.2	07.5	03.5	08.0	11.5	13.6	14.0	13.3	12.8	12.9	15.3	
3 D	14.9	11.5	19.2	20.5	14.1	22.5	12.2	17.4	16.0	16.6	09.0	16.0	17.8	13.0	11.0	10.2	08.6	15.5	14.0	12.3	13.5	12.2	12.3	14.0	14.3	
4	13.0	14.1	14.8	14.9	14.9	17.7	16.9	18.0	08.0	09.5	10.3	03.0	13.3	15.8	16.5	10.3	03.0	08.5	16.5	17.5	12.8	10.3	10.9	11.0	12.6	
5	13.0	13.9	16.1	17.4	21.4	10.9	18.5	14.1	16.0	17.1	10.5	13.0	15.0	14.3	13.7	14.1	17.9	19.9	19.0	17.0	15.5	13.8	13.0	12.7	15.3	
6	13.2	13.8	15.7	14.0	15.4	19.5	19.1	16.9	15.0	14.5	05.9	11.9	17.9	15.6	13.6	13.7	12.5	14.3	15.7	15.6	13.5	12.1	10.8	11.6	14.2	
7	12.1	13.0	13.4	13.4	17.4	15.3	15.5	14.3	11.7	13.5	14.1	12.8	12.6	12.7	13.7	15.2	15.1	18.5	18.5	16.9	12.7	09.9	10.1	10.9	13.9	
8	11.8	12.7	12.8	15.8	13.6	14.5	14.4	13.4	15.5	14.5	09.9	15.4	16.5	14.5	07.5	10.0	14.8	17.0	14.9	12.9	12.3	11.9	11.7	12.0	13.3	
9	12.7	12.9	13.5	13.6	14.0	14.0	13.7	13.6	13.6	13.6	13.7	14.0	14.1	14.2	14.4	13.6	16.9	17.3	18.3	17.4	13.3	11.7	10.2	08.8	13.9	
10	08.9	10.3	11.7	12.7	12.3	12.7	13.4	14.8	14.0	14.5	15.3	15.2	15.3	17.3	17.3	17.3	19.0	18.2	18.3	17.0	15.1	12.6	10.0	09.1	14.3	
11 Q	08.3	10.8	11.9	13.4	13.6	13.8	14.1	14.3	14.5	14.6	15.1	14.5	13.6	14.1	14.6	15.3	16.9	18.4	18.3	16.5	14.5	12.7	11.0	11.8	14.0	
12 Q																						11.8	10.9	10.3		
13	10.3	11.8	11.8	12.7	12.7	12.7	12.9	13.8	14.8	14.6	13.3	15.5	14.3	15.1	15.5	16.5	17.2	19.1	17.3	15.5	11.7	09.9	09.7	10.3	13.7	
14	06.3	06.5	07.7	11.8	11.7	14.5	15.4	15.5	18.7	15.1	17.3	11.7	10.4	09.5	13.5	16.4	11.9	12.7	13.9	14.9	13.5	11.0	11.7	13.4	12.7	
15 Q	12.8	12.5	13.6	14.5	13.7	13.8	13.6	13.5	13.4	13.7	13.5	13.6	14.7	15.4	16.3	17.2	17.5	18.2	17.3	15.2	13.4	12.2	12.1	12.5	14.3	
16	12.3	12.7	12.9	13.0	13.3	13.1	12.9	13.2	13.6	14.5	13.4	13.4	13.7	14.5	13.5	12.0	15.5	14.6	09.0	09.9	08.2	08.1	09.9	12.5	12.5	
17	13.1	13.9	13.9	19.0	22.0	15.5	14.9	12.7	12.5	13.1	14.0	18.1	09.8	15.7	15.0	15.6	16.2	16.5	15.4	14.0	13.0	12.6	13.5	14.0	14.7	
18	12.9	13.0	14.5	14.5	13.6	14.1	14.6	16.0	17.4	19.7	16.6	15.5	13.5	14.0	09.1	14.4	17.0	19.5	12.3	09.4	10.4	10.6	10.9	12.0	14.0	
19	12.3	12.5	13.0	13.0	12.7	13.0	16.2	16.5	14.0	16.1	12.0	10.6	09.0	14.2	13.6	11.5	15.0	17.4	16.5	14.5	12.0	10.6	10.0	10.9	13.2	
20 Q	11.8	12.5	12.1	13.4	13.5	13.5	13.8	13.2	11.5	11.4	12.0	13.5	13.6	13.8	14.1	15.1	16.4	16.9	16.1	14.9	13.5	12.0	12.0	11.5	13.4	
21	11.6	12.6	12.8	13.4	13.6	13.6	14.1	13.6	14.6	14.1	13.2	15.6	19.5	16.1	11.3	13.9	11.5	14.5	14.6	10.6	09.1	09.9	10.1	11.1	13.1	
22	11.9	14.0	14.7	17.1	15.6	18.5	18.6	14.8	19.4	15.7	14.6	10.1	09.8	16.1	17.1	16.1	16.4	16.7	15.1	14.6	12.9	12.4	11.5	11.5	14.8	
23	09.4	06.2	01.7	02.7	15.4	14.5	13.5	21.6	20.1	16.6	14.9	21.6	19.6	18.0	03.6	09.9	13.6	14.6	14.3	14.3	14.0	12.2	12.1	12.6	13.2	
24 Q	12.6	12.8	13.2	14.0	13.5	13.8	14.6	13.4	13.2	12.7	13.1	13.4	14.6	12.6	11.7	13.4	16.6	18.0	17.6	15.5	12.6	10.7	11.5	11.5	13.6	
25	11.6	12.5	12.6	13.1	13.6	14.1	13.6	15.1	17.2	18.7	18.1	14.6	20.7	20.1	17.1	16.5	16.0	16.1	14.1	13.6	13.0	11.6	10.6	11.6	14.8	
26	12.0	12.0	12.0	13.1	13.5	14.3	14.8	21.0	17.0	14.5	19.5	24.2	15.6	14.6	15.1	15.5	16.0	16.1	15.0	14.9	13.5	13.0	11.9	10.5	15.0	
27	09.5	10.7	12.5	13.0	12.6	13.0	12.3	13.7	14.2	14.8	15.2	16.4	17.0	16.7	16.4	16.6	16.5	18.0	16.5	13.3	11.0	10.6	10.2	11.0	13.8	
28 D	06.8	07.0	05.8	05.6	08.0	14.7	32.5	16.5	17.0	14.8	07.5	18.0	16.5	15.9	14.3	12.8	15.5	16.3	16.0	15.6	13.9	14.4	13.0	14.4	13.9	
29	14.5	15.1	16.5	15.5	14.6	14.5	13.0	13.0	12.9	12.0	15.0	21.5	16.5	10.5	10.1	11.0	14.6	15.9	14.0	14.5	13.6	13.0	13.6	13.5	14.1	
30 D	13.5	14.2	14.5	14.5	14.3	14.1	14.5	20.0	11.4	08.1	23.4	17.2	08.0	19.1	09.6	06.5	09.9	15.4	15.9	13.9	12.2	12.0	12.0	11.9	13.6	
31																										
Mean	11.8	12.2	13.0	14.0	14.4	15.1	15.6	16.0	15.6	14.8	14.1	15.1	14.1	14.8	13.2	13.3	14.2	15.9	15.5	14.4	12.8	11.8	11.6	12.0	14.0	

VERTICAL INTENSITY
 Mean values for periods of sixty minutes, Universal Time

Table 33 Victoria

$Z = 53,000 \gamma +$

November 1959

Hour U. T. Day	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	Mean
	to 1	to 2	to 3	to 4	to 5	to 6	to 7	to 8	to 9	to 10	to 11	to 12	to 13	to 14	to 15	to 16	to 17	to 18	to 19	to 20	to 21	to 22	to 23	to 24		
1 D	428	426	428	424	431	444	446	401	328	282	343	315	270	232	327	353	388	394	410	417	412	421	425	424	382	
2 D	425	427	443	468	472	475	455	387	328	362	347	337	270	275	312	365	365	370	393	407	425	435	444	441	393	
3 D	456	438	455	444	434	431	400	397	399	343	355	395	393	386	372	370	393	396	404	407	414	426	429	427	407	
4	424	421	417	416	417	422	420	415	391	370	352	318	295	325	349	364	357	372	388	389	415	427	438	437	389	
5	448	440	440	439	431	404	403	361	362	395	354	364	406	403	410	417	415	421	418	414	415	419	420	420	409	
6	419	420	428	430	426	420	407	406	413	409	387	382	387	402	409	407	408	401	395	389	393	399	414	416	407	
7	420	420	417	415	416	420	416	414	408	406	407	408	407	407	409	413	417	420	413	407	404	408	411	414	412	
8	415	416	415	416	420	425	419	396	407	403	381	387	394	394	385	390	399	403	406	403	402	400	403	407	404	
9	411	412	412	412	412	410	408	408	407	407	407	407	407	407	407	410	408	403	394	390	395	402	407	406	406	
10	409	412	416	416	416	417	417	420	413	411	407	407	395	397	403	407	407	408	408	404	399	397	399	407	408	
11 Q	411	412	415	415	413	413	412	411	409	407	403	403	405	407	407	410	409	408	403	398	394	393	399	403	407	
12 Q																						402	406	405		
13	407	410	412	413	414	416	416	416	416	413	407	399	403	403	404	405	403	402	398	392	387	392	394	399	405	
14	402	406	414	422	426	429	428	424	388	384	395	382	344	360	358	375	390	393	391	393	395	403	409	410	397	
15 Q	410	412	413	413	413	412	411	411	410	408	406	403	403	404	407	411	413	413	409	403	403	405	408	408	409	
16	409	409	408	407	408	408	408	408	408	408	407	406	406	407	404	399	400	398	394	390	395	401	406	408	404	
17	410	412	410	414	420	425	425	420	414	412	407	380	368	378	393	405	409	411	409	404	403	407	409	409	406	
18	409	410	410	413	417	420	417	416	411	404	402	404	411	410	403	400	409	409	409	413	407	407	413	415	410	
19	413	413	410	409	410	410	407	398	380	383	397	397	396	395	397	393	397	403	405	405	407	411	415	414	403	
20 Q	411	412	412	412	411	409	410	410	406	405	404	407	407	407	408	410	409	408	408	408	409	411	410	410	409	
21	404	404	404	403	405	407	411	412	409	399	398	378	349	313	303	331	375	393	401	399	401	408	414	414	389	
22	417	419	418	415	417	412	410	408	406	404	404	398	386	392	400	402	402	402	401	399	404	406	408	411	406	
23	413	431	461	485	484	455	437	386	404	379	332	340	347	338	329	358	387	396	403	405	408	417	419	415	401	
24 Q	412	412	412	413	414	414	412	409	407	408	409	409	407	404	396	394	397	401	401	399	399	402	407	409	406	
25	408	412	412	410	411	412	412	411	406	396	396	388	366	374	387	400	403	403	403	399	398	401	404	409	401	
26	412	414	415	417	418	418	417	399	402	396	358	355	391	405	410	414	414	414	413	405	398	399	404	407	404	
27	414	414	417	420	420	418	418	421	418	415	413	410	407	405	407	411	412	410	406	403	407	406	408	411	412	
28 D	407	416	424	559	639	605	440	448	426	417	175	317	410	430	432	427	427	427	426	428	428	435	431	427	433	
29	428	427	430	433	428	422	419	414	414	407	376	357	364	361	370	381	396	403	406	412	418	420	422	421	405	
30 D	420	420	418	419	421	423	422	413	383	330	377	343	290	299	329	352	351	374	404	412	427	433	432	429	388	
31																										
Mean	416	417	420	427	430	428	418	409	399	392	380	379	375	376	384	392	398	403	405	404	406	410	414	415	404	

HORIZONTAL INTENSITY
Mean values for periods of sixty minutes, Universal Time

Table 34 Victoria

H = 18,500 γ +

December 1959

Hour U. T. Day	0 to 1	1 to 2	2 to 3	3 to 4	4 to 5	5 to 6	6 to 7	7 to 8	8 to 9	9 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	Mean
1	275	285	274	268	259	262	258	260	263	252	252	252	262	284	291	276	272	266	254	242	248	262	271	275	265
2	265	275	284	286	274	284	278	287	287	284	266	275	302	312	284	276	296	286	250	212	245	260	276	266	275
3 D	255	260	271	272	263	250	243	262	237	244	254	273	249	322	312	280	290	287	268	262	242	234	252	278	265
4	277	280	284	277	282	290	288	282	292	299	290	294	299	305	306	306	301	296	287	279	273	266	276	283	288
5 D	286	292	293	296	296	294	293	291	281	307	294	290	315	232	222	186	156	132	068	149	166	200	254	260	244
6	266	272	275	272	273	275	264	266	283	279	276	280	280	273	278	280	278	272	256	246	254	264	269	268	271
7 Q	272	270	276	286	280	284	286	284	285	286	286	289	293	296	300	304	292	279	266	259	258	261	268	279	281
8	286	295	292	292	290	293	299	297	297	290	286	291	297	296	296	292	286	276	275	272	258	262	274	286	287
9	296	302	305	307	310	307	300	293	304	307	304	306	306	301	302	300	292	278	274	271	274	278	288	297	296
10 Q	306	310	310	313	314	313	312	309	309	304	306	304	306	308	306	302	296	292	277	264	270	274	289	298	300
11 Q	304	308	310	310	308	300	294	302	307	306	306	308	308	308	308	307	304	301	295	286	286	289	292	297	302
12	308	314	308	280	305	304	299	302	299	297	298	304	306	310	306	304	304	296	307	283	267	258	262	281	296
13	291	279	279	275	294	292	291	294	292	296	299	298	301	302	300	298	294	282	284	280	264	252	261	278	286
14 D	286	271	254	269	271	274	273	275	261	230	272	282	280	272	297	286	268	248	248	260	264	265	266	277	269
15	285	290	286	283	271	267	273	271	260	270	266	274	282	291	294	284	278	268	258	270	268	270	262	267	274
16	282	286	285	292	293	297	290	289	280	273	286	289	298	291	297	308	281	296	282	273	266	272	270	268	285
17	273	287	289	290	294	293	292	295	288	287	292	294	296	300	302	302	299	294	279	268	268	278	286	290	289
18	292	298	301	300	300	296	289	301	293	288	288	294	306	290	297	299	305	300	288	282	281	290	293	297	294
19	302	302	295	282	280	276	278	293	284	272	266	265	276	310	316	310	305	301	290	281	275	278	285	290	288
20	294	294	298	297	290	296	299	299	302	301	305	306	309	309	310	314	316	298	291	286	277	275	278	287	297
21 Q	299	302	302	303	298	298	302	302	301	302	303	308	311	313	316	319	318	310	296	288	279	278	281	290	301
22 Q	302	307	308	310	312	312	312	312	310	312	315	317	318	320	320	319	311	300	296	289	290	287	291	304	307
23	318	316	318	318	321	304	290	298	300	300	300	302	302	306	310	312	274	294	290	266	265	264	273	260	296
24	282	289	292	292	292	292	296	290	299	266	275	308	298	300	304	306	302	292	284	282	286	291	302	310	293
25	306	295	290	282	281	292	306	300	293	299	284	296	302	304	307	303	306	302	287	282	282	284	288	295	294
26	297	303	305	299	291	292	287	293	294	290	290	291	302	304	287	296	306	302	280	295	282	272	270	282	292
27 D	287	289	280	278	284	286	286	287	270	281	257	279	298	280	284	292	266	284	266	256	262	270	278	264	278
28 D	268	274	277	287	284	288	282	284	295	284	270	286	278	286	267	290	274	268	231	262	266	260	262	268	275
29	276	280	286	272	264	279	280	294	292	272	283	276	293	302	294	296	292	294	287	278	277	279	281	280	284
30	289	296	296	291	281	284	282	293	286	288	286	296	311	294	287	310	308	294	280	272	272	280	283	288	289
31	292	294	290	290	292	294	291	299	288	290	295	294	294	291	297	300	299	293	282	280	274	285	290	291	291
Mean	288	291	291	289	289	289	288	290	288	286	285	291	296	297	297	295	289	283	270	267	266	269	276	282	286

DECLINATION
 Mean values for periods of sixty minutes, Universal Time

Table 35 Victoria

D = 22° 45.0' E +

December 1959

Hour U.T. Day	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	Mean
	to 1	to 2	to 3	to 4	to 5	to 6	to 7	to 8	to 9	to 10	to 11	to 12	to 13	to 14	to 15	to 16	to 17	to 18	to 19	to 20	to 21	to 22	to 23	to 24	
1	12.8	14.5	14.6	16.8	14.6	22.1	19.8	18.3	16.4	16.0	09.5	08.5	17.0	12.5	17.0	17.2	14.2	16.5	16.9	14.7	13.0	11.6	12.3	11.8	14.9
2	12.5	13.5	15.3	15.1	21.5	16.5	16.0	15.3	16.1	11.9	14.0	11.9	18.3	09.0	09.0	07.5	14.0	16.0	14.5	09.0	05.9	09.6	13.0	12.6	13.2
3 D	13.9	15.2	16.5	16.6	18.9	21.0	23.0	21.6	25.7	14.1	23.1	29.6	20.1	15.4	12.1	13.8	15.0	15.9	17.0	12.9	13.5	10.6	11.1	13.5	17.1
4	14.0	13.9	12.0	12.5	14.5	16.0	14.5	14.5	14.7	14.5	13.7	12.8	11.9	14.0	16.5	17.1	16.6	15.5	13.9	13.0	13.5	13.4	13.4	13.1	14.1
5 D	12.3	12.8	13.2	13.4	13.9	13.6	13.5	14.3	14.5	11.2	15.5	18.1	14.0	00.0	04.3	03.0	01.5	14.8	04.5	06.5	09.9	04.0	07.1	11.3	10.0
6	13.4	13.6	13.3	13.4	16.6	13.5	14.3	15.0	14.8	10.9	13.6	14.5	15.5	13.8	13.0	14.6	17.3	17.1	17.1	15.8	14.3	13.0	12.6	12.0	14.3
7 Q	11.8	11.0	11.4	13.3	14.3	14.5	13.7	13.4	13.5	13.5	13.0	12.9	12.5	12.5	12.0	12.9	16.0	17.0	17.1	15.7	14.0	12.0	11.7	10.5	13.3
8	11.6	11.5	12.1	12.9	13.5	13.5	13.5	13.0	13.4	14.0	15.1	15.0	14.5	13.9	14.2	15.5	19.0	17.8	16.6	16.0	14.4	10.9	09.9	10.1	13.8
9	11.3	12.0	12.5	13.0	13.5	13.4	13.2	13.9	12.4	11.6	14.0	13.5	14.5	14.7	14.4	15.7	17.8	18.0	16.7	15.4	13.0	11.4	11.0	10.2	13.6
10 Q	10.8	11.2	12.0	12.6	11.9	12.3	13.2	13.0	13.2	13.1	13.5	13.2	13.5	13.8	14.0	15.0	16.6	16.0	16.5	15.5	13.3	12.5	11.5	11.0	13.3
11 Q	11.3	12.0	12.5	12.5	12.5	12.2	12.6	12.9	13.0	13.5	13.0	14.0	13.8	13.5	14.0	15.2	15.0	16.1	15.5	14.0	12.8	11.5	11.6	11.5	13.2
12	11.4	10.7	09.7	15.0	12.3	12.0	13.1	12.8	12.7	15.1	14.3	15.0	14.9	11.8	15.5	16.0	16.9	18.0	15.0	14.0	13.5	11.6	07.5	06.2	13.1
13	07.5	10.1	13.0	14.0	14.2	13.7	13.6	13.4	13.2	13.2	13.6	14.0	13.9	13.5	14.3	15.1	17.9	17.0	15.8	14.7	13.9	11.7	03.0	05.9	12.9
14 D	08.5	10.1	14.5	20.0	17.5	18.4	17.7	21.3	12.0	08.0	27.6	24.6	12.5	03.9	13.5	08.9	13.0	14.5	13.3	11.5	11.5	11.5	11.0	10.5	14.0
15	13.4	14.5	15.9	15.0	15.5	11.0	21.0	20.0	16.9	15.4	16.5	13.7	09.5	12.5	14.0	14.0	12.8	12.6	08.6	12.1	12.5	12.0	11.6	11.8	13.9
16	11.3	12.7	14.4	14.5	16.0	16.5	16.6	14.5	15.3	09.0	11.5	16.5	14.6	11.0	08.5	10.1	09.4	10.0	10.8	11.5	11.0	11.0	11.1	11.0	12.4
17	11.7	12.6	13.9	14.5	14.9	14.4	14.5	17.0	14.4	13.9	09.7	11.0	11.0	14.0	15.1	15.9	16.6	16.5	15.7	13.4	11.5	11.5	11.5	11.9	13.6
18	12.2	12.7	14.0	14.0	14.4	14.2	16.0	23.5	14.0	14.6	16.9	12.5	12.6	10.7	14.0	13.1	16.5	16.4	15.2	14.0	12.5	11.4	11.0	11.4	14.1
19	11.0	12.5	12.0	13.3	15.2	16.5	15.5	22.7	18.2	20.9	19.1	13.9	08.0	09.0	15.1	16.2	16.6	15.0	13.8	14.2	14.0	12.5	11.5	11.5	14.5
20	12.5	12.8	13.9	14.0	14.7	14.0	13.5	13.1	12.6	13.0	12.4	12.0	12.7	12.1	14.0	15.4	17.0	15.5	13.4	13.4	12.5	11.9	11.2	11.4	13.3
21 Q	12.0	12.5	13.0	13.4	13.7	14.5	13.8	12.9	12.5	11.9	12.3	12.2	12.2	12.3	13.3	14.6	17.0	18.4	18.5	16.8	14.2	12.5	11.7	11.0	13.6
22 Q	11.0	11.3	12.0	14.0	13.5	13.6	13.1	12.8	12.5	12.5	12.7	12.8	12.9	13.0	13.9	14.5	17.9	17.5	15.9	15.4	13.2	11.4	10.5	10.0	13.2
23	10.0	11.6	12.5	13.9	13.5	13.8	17.1	14.0	13.4	12.1	12.9	14.7	13.1	13.9	15.5	19.2	18.6	10.9	12.5	16.0	15.5	12.0	09.5	08.9	13.5
24	05.9	09.1	13.1	15.0	15.0	14.5	15.0	15.5	09.6	06.6	14.5	20.5	22.9	17.0	16.0	14.6	17.1	17.6	17.5	16.0	14.1	12.1	11.0	10.8	14.2
25	13.3	13.9	13.9	15.0	15.7	15.5	14.4	13.5	13.4	15.6	15.0	12.1	14.0	14.0	14.3	14.4	16.9	17.0	16.1	14.4	14.5	13.5	13.1	12.9	14.4
26	12.9	13.0	12.5	13.8	18.9	15.9	17.2	14.4	13.5	13.7	15.5	14.2	22.6	18.1	08.0	07.9	12.5	13.5	12.9	14.5	13.9	12.1	11.5	10.1	13.9
27 D	12.0	12.1	15.0	18.6	19.8	22.1	16.8	15.5	17.0	14.1	26.7	08.0	16.1	09.8	10.4	11.9	11.6	12.2	11.5	12.5	13.6	12.9	12.0	11.3	14.3
28 D	17.3	11.0	13.5	14.3	15.5	21.0	17.9	14.5	11.5	15.6	13.6	20.5	20.0	19.6	07.8	04.5	03.8	11.8	05.6	03.8	09.5	12.1	12.5	13.1	12.9
29	13.3	16.1	14.5	16.0	21.0	17.0	14.3	09.1	12.9	16.2	13.4	08.7	15.5	17.0	16.1	15.4	16.5	16.1	16.6	15.7	14.4	12.9	12.9	13.7	14.8
30	13.8	14.0	14.4	14.4	16.9	15.6	15.9	15.6	13.7	14.5	14.4	15.5	15.5	16.1	09.1	14.4	15.2	14.0	13.8	14.6	13.0	13.3	13.9	14.0	14.4
31	14.1	14.5	15.1	15.0	14.5	14.5	14.0	14.3	13.8	12.5	13.1	14.2	13.5	12.1	13.7	15.8	16.5	17.2	16.6	15.9	14.5	13.2	13.0	13.0	14.4
Mean	12.0	12.5	13.4	14.5	15.4	15.4	15.4	15.3	14.2	13.3	15.0	14.5	14.6	12.7	13.0	13.3	14.9	15.6	14.4	13.6	12.9	11.7	11.2	11.2	13.8

VERTICAL INTENSITY
 Mean values for periods of sixty minutes, Universal Time

Table 36 Victoria

z = 53,000 γ +

December 1959

Hour U. T. Day	0 to 1	1 to 2	2 to 3	3 to 4	4 to 5	5 to 6	6 to 7	7 to 8	8 to 9	9 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	Mean
1	431	426	427	437	440	435	422	392	382	358	314	332	333	352	384	404	404	405	409	415	422	427	426	423	400
2	422	423	424	423	419	406	418	411	394	377	363	329	370	350	347	361	377	394	397	405	417	424	425	424	396
3 D	421	428	431	434	433	435	426	387	336	271	326	333	269	311	330	341	381	394	396	399	403	411	420	427	381
4	425	425	426	428	427	429	423	419	415	402	409	412	407	406	408	412	410	406	403	402	405	406	411	411	414
5 D	407	408	406	407	407	407	406	403	384	377	373	369	336	259	248	253	229	282	293	357	387	414	424	424	361
6	424	423	423	425	425	423	422	424	422	410	415	414	410	407	408	409	408	404	403	407	410	409	412	414	415
7 Q	414	414	419	421	418	413	410	408	409	412	412	412	413	411	410	407	409	411	410	412	412	413	414	414	412
8	416	418	416	417	415	414	414	412	411	411	414	416	415	414	413	415	414	412	405	404	405	407	409	411	412
9	414	414	414	414	415	415	416	421	418	413	409	411	409	405	408	411	411	408	406	404	404	403	406	404	411
10 Q	407	405	405	407	408	408	407	405	403	403	403	404	403	402	404	405	407	408	402	403	403	404	404	403	405
11 Q	402	404	405	406	407	406	408	408	405	403	403	401	402	401	402	404	404	403	398	400	398	399	398	398	403
12	400	402	403	406	413	411	409	409	403	398	403	403	401	393	394	404	405	403	401	398	394	396	400	407	402
13	413	419	431	428	425	419	416	414	410	407	408	407	406	406	406	406	409	408	406	403	397	392	399	412	410
14 D	416	421	425	432	429	435	428	414	371	281	336	354	373	334	336	362	371	390	407	410	409	413	413	414	391
15	418	415	415	416	414	405	399	401	397	392	393	389	387	394	404	405	402	407	402	410	412	414	412	415	405
16	418	416	416	415	415	411	407	408	403	390	377	387	403	390	380	392	389	391	395	406	410	412	411	411	402
17	411	413	412	413	413	411	409	405	398	397	395	399	397	397	402	405	407	408	408	409	410	410	409	408	407
18	409	409	407	407	406	405	404	402	394	389	390	389	372	362	383	396	396	397	399	402	399	403	401	401	397
19	402	403	402	407	411	409	399	387	384	374	362	334	324	341	360	377	387	391	394	398	399	403	405	406	386
20	404	403	403	402	402	402	402	400	399	399	397	395	390	396	396	400	401	399	400	402	393	395	399	400	399
21 Q	405	405	404	404	402	403	403	401	401	401	402	403	402	401	402	405	407	404	400	396	394	396	400	400	402
22 Q	402	403	404	404	403	401	400	399	399	399	400	399	399	398	398	401	405	407	408	404	399	394	394	400	401
23	404	403	404	403	403	403	409	408	403	403	404	402	402	399	399	398	388	388	386	393	394	394	400	404	400
24	415	420	420	416	413	411	410	407	383	346	349	366	371	386	396	408	412	408	404	401	400	400	401	402	398
25	399	401	401	403	404	405	399	396	395	388	386	392	397	404	405	405	407	402	400	401	399	395	398	399	399
26	398	402	403	404	406	409	414	416	407	401	396	368	361	376	363	355	360	368	383	393	391	396	398	404	390
27 D	413	416	417	418	417	419	409	399	392	379	306	305	355	351	368	382	391	399	399	404	405	404	405	406	390
28 D	420	424	424	427	417	412	395	402	385	395	382	353	367	379	343	325	340	366	377	389	397	405	409	411	389
29	412	418	416	414	418	419	417	395	390	383	391	364	359	381	389	400	400	400	402	404	402	400	400	401	399
30	405	406	406	406	404	404	402	399	396	394	400	387	354	356	351	370	376	382	388	393	398	402	404	404	391
31	403	402	402	403	403	403	402	395	389	395	392	393	396	398	396	402	403	401	401	407	403	408	406	407	400
Mean	411	413	413	414	414	413	410	405	396	385	384	381	380	380	382	388	391	395	396	401	402	405	407	409	399

DIURNAL INEQUALITIES OF MAGNETIC ELEMENTS
Departure from mean of the day not adjusted for non-cyclic change

Hour U. T. Month Season	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23
	to 1	to 2	to 3	to 4	to 5	to 6	to 7	to 8	to 9	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
HORIZONTAL INTENSITY (gammas) (Quiet Days)																								
Table 40 Victoria 1959																								
January	0	+3	+4	+5	+5	+6	+6	+6	+6	+6	+8	+10	+12	+14	+14	+14	+10	-5	-18	-27	-29	-25	-16	-5
February	-7	+2	+6	+6	+6	+6	+5	+7	+7	+11	+13	+14	+13	+12	+12	+10	+2	-10	-26	-34	-34	-24	-12	
March	-11	-2	+3	+4	+4	+6	+7	+7	+9	+13	+15	+17	+17	+18	+19	+17	+11	0	-15	-28	-34	-33	-28	
April	-9	-3	+3	+5	+5	+7	+8	+10	+13	+15	+15	+15	+17	+19	+15	+5	-11	-20	-24	-25	-27	-23	-18	
May	-3	-1	-1	-1	+1	+2	+5	+7	+8	+10	+11	+10	+9	+12	+14	+6	-1	-11	-15	-13	-13	-12	-9	
June	-1	+1	+6	+4	+1	-3	-8	-2	+1	+1	+4	+5	+9	+15	+19	+17	+9	-3	-10	-12	-15	-9	-12	
July	0	+8	+12	+7	+6	+7	+6	+7	+10	+8	+10	+7	+10	+12	+14	-1	+3	-11	-25	-31	-26	-19	-13	
August	-3	+3	+6	+10	+6	+7	+9	+12	+14	+12	+12	+12	+13	+13	+16	+16	+9	-6	-21	-35	-33	-31	-19	
September	-4	-2	+5	+4	+3	+5	+7	+7	+10	+12	+13	+13	+13	+11	+3	-9	-17	-25	-27	-24	-15	-6	+1	
October	-6	-2	+1	+3	+3	+3	+2	+4	+7	+9	+10	+13	+14	+12	+10	+3	-4	-10	-17	-17	-14	-10	-9	
November	-3	-3	-3	+2	+3	+2	+2	+5	+6	+7	+10	+11	+12	+11	+11	+10	+5	-4	-12	-19	-24	-20	-11	
December	-2	+2	+3	+6	+4	+4	+3	+4	+4	+4	+5	+7	+9	+11	+12	+12	+6	-2	-12	-21	-21	-20	-14	
Year	-4	0	+4	+5	+4	+4	+5	+6	+8	+9	+10	+11	+12	+14	+14	+10	+3	-8	-18	-23	-24	-20	-15	
Winter	-3	+1	+2	+5	+4	+4	+4	+5	+6	+6	+8	+10	+12	+12	+12	+12	+6	-2	-13	-23	-27	-25	-16	
Equinox	-8	-2	+3	+4	+4	+5	+6	+7	+10	+12	+13	+14	+15	+15	+15	+10	+1	-10	-19	-24	-24	-21	-16	
Summer	-2	+3	+6	+5	+4	+3	+4	+6	+8	+8	+9	+8	+10	+14	+15	+8	+1	-12	-21	-22	-21	-15	-11	
DECLINATION (minutes) (Quiet Days)																								
Table 41 Victoria 1959																								
January	-2.4	-1.8	-1.5	-1.0	-0.8	-0.8	-0.8	-0.7	-1.0	-0.9	-0.7	-0.7	-0.7	-0.8	0.0	+1.5	+4.2	+6.3	+5.4	+3.6	+1.3	-1.2	-2.7	-3.1
February	-2.3	-1.7	-1.5	-1.2	-1.1	-1.2	-1.2	-0.6	-1.2	-0.6	-0.8	-0.5	-0.1	0.0	+0.4	+1.9	+3.2	+4.4	+4.9	+3.7	+1.1	-0.5	-2.2	-2.9
March	-4.2	-3.7	-3.0	-2.4	-2.0	-1.7	-1.4	-1.1	-0.7	-0.2	+0.3	+0.1	+0.4	+1.0	+2.2	+3.5	+5.7	+6.8	+6.5	+3.8	+0.8	-1.7	-3.8	-4.9
April	-4.9	-4.4	-3.6	-2.1	-2.0	-1.7	-1.5	-1.0	-0.6	-0.1	0.0	+0.2	+0.4	+1.5	+3.7	+6.5	+8.2	+7.6	+4.2	+0.9	-1.1	-2.5	-4.0	-5.2
May	-5.0	-3.4	-1.7	-1.4	-1.9	-1.5	-1.2	-1.0	-0.7	-0.5	-0.3	+0.2	+1.0	+3.0	+5.3	+7.0	+7.3	+5.7	+3.5	+0.9	-1.3	-3.4	-4.9	-5.3
June	-5.7	-4.0	-2.0	-0.5	-0.5	-1.4	-1.7	-2.0	-1.8	-1.2	-1.0	-0.4	+0.7	+2.7	+5.0	+7.1	+8.5	+9.4	+6.5	+1.6	-1.3	-4.3	-6.9	-7.1
July	-5.4	-3.8	-2.1	0.0	-0.7	-1.0	-0.2	-0.7	-0.8	-1.1	-0.7	-0.8	+0.8	+3.1	+5.8	+7.3	+8.2	+6.8	+4.0	+0.9	-2.6	-4.6	-5.8	-6.3
August	-3.3	-2.0	-1.6	-1.6	-1.3	-1.3	-0.5	-1.1	-0.4	+0.4	+0.5	+0.7	+1.4	+3.6	+6.3	+8.6	+9.0	+7.5	+3.0	-2.7	-5.0	-6.5	-6.7	-6.2
September	-4.2	-2.9	-1.8	-1.7	-1.5	-1.2	-0.7	-0.2	-0.5	+0.5	+0.6	+0.8	+0.8	+1.7	+4.0	+6.2	+7.0	+6.0	+2.9	-0.2	-2.3	-3.9	-4.9	-3.9
October	-2.7	-2.6	-1.8	-1.5	-1.3	-1.0	-0.8	-0.7	-0.2	+0.5	+0.7	+0.8	+0.7	+1.2	+2.0	+3.3	+4.5	+4.7	+3.2	+0.3	-1.5	-2.4	-2.4	-2.6
November	-2.4	-1.7	-1.1	0.0	-0.2	-0.1	+0.2	-0.2	-0.7	+0.7	-0.4	-0.1	+0.3	+0.2	+0.4	+1.4	+3.0	+4.1	+3.5	+1.7	-0.3	-1.9	-2.3	-2.3
December	-1.9	-1.7	-1.1	-0.1	-0.1	+0.1	0.0	-0.3	-0.4	-0.4	-0.4	-0.3	-0.3	-0.3	+0.1	+1.1	+3.2	+3.7	+3.4	+2.2	+0.2	-1.3	-1.9	-2.5
Year	-3.7	-2.8	-1.8	-1.1	-1.1	-1.1	-0.8	-0.8	-0.7	-0.4	-0.2	0.0	+0.5	+1.4	+2.9	+4.6	+6.0	+6.1	+4.2	+1.4	-1.0	-2.9	-4.0	-4.4
Winter	-2.2	-1.7	-1.3	-0.6	-0.6	-0.5	-0.4	-0.4	-0.8	-0.6	-0.6	-0.4	-0.2	-0.2	+0.2	+1.5	+3.4	+4.6	+4.3	+2.8	+0.6	-1.2	-2.3	-2.7
Equinox	-4.0	-3.4	-2.4	-1.9	-1.7	-1.4	-1.1	-0.8	-0.5	+0.2	+0.4	+0.4	+0.6	+1.4	+3.0	+4.9	+6.4	+6.3	+4.2	+1.2	-1.0	-2.6	-3.8	-4.2
Summer	-4.8	-3.3	-1.8	-0.9	-1.1	-1.3	-0.9	-1.2	-0.9	-0.6	-0.4	-0.1	+1.0	+3.1	+5.6	+7.5	+8.2	+7.4	+4.2	+0.2	-2.5	-4.7	-6.1	-6.2
VERTICAL INTENSITY (gammas) (Quiet Days)																								
Table 42 Victoria 1959																								
January	+2	+3	+3	+4	+4	+2	+2	+2	+1	+1	+1	+1	0	-1	-2	+1	+6	+3	0	-2	-6	-8	-6	-4
February	+1	+4	+5	+4	+3	+3	+2	0	+1	+1	0	-1	-2	-2	-1	+2	+3	-1	-5	-5	-5	-4	-3	
March	-1	+1	+4	+4	+4	+6	+6	+6	+4	+2	+1	0	0	0	+3	+5	+3	-2	-7	-9	-9	-9	-8	
April	+5	+6	+10	+10	+7	+5	+6	+5	+5	+4	0	-1	0	-1	0	0	-1	0	-4	-6	-10	-10	-10	
May	+3	+5	+6	+3	+2	+3	+4	+5	+6	+6	+4	+6	+4	+2	+1	0	-2	-10	-16	-15	-11	-8	-2	
June	+10	+15	+16	+11	+8	+6	+4	+4	+5	+4	+5	+6	+8	+10	+9	+7	-1	-13	-19	-24	-25	-23	-17	-6
July	+8	+15	+18	+14	+10	+6	+3	+3	+1	+1	+3	+3	+4	+6	+6	+3	0	-8	-14	-24	-24	-18	-11	-3
August	+7	+12	+11	+9	+6	+5	+6	+4	+1	+2	+4	+5	+6	+8	+9	+5	+1	-10	-22	-26	-24	-18	-10	0
September	+3	+6	+7	+6	+5	+5	+5	+7	+2	-1	+1	0	0	0	+1	-2	-5	-8	-10	-8	-4	-4	-2	
October	0	+3	+5	+4	+4	+4	+5	+4	+2	+2	+1	+1	+1	+1	+2	+4	+3	0	-6	-11	-10	-7	-6	-5
November	+3	+4	+5	+5	+5	+4	+3	+2	0	-1	-2	-2	-2	-2	-4	-2	-1	-1	-3	-6	-7	-6	-9	0
December	+2	+2	+3	+4	+4	+2	+2	0	-1	0	0	0	0	-1	-1	0	+2	+3	0	-1	-3	-3	-2	-1
Year	+4	+6	+8	+6	+5	+4	+4	+4	+3	+2	+1	+2	+2	+2	+2	+2	+1	-3	-8	-12	-12	-10	-7	-4
Winter	+2	+3	+4	+4	+4	+3	+2	+2	0	0	0	0	-1	-2	-2	0	+2	+2	-1	-4	-5	-6	-4	-2
Equinox	+2	+4	+6	+6	+5	+5	+5	+5	+4	+2	0	0	0	0	+1	+2	+1	-2	-6	-9	-8	-8	-6	
Summer	+7	+12	+13	+9	+6	+5	+4	+4	+3	+3	+4	+5	+6	+6	+6	+4	0	-10	-18	-22	-20	-17	-11	-3

THREE-HOUR RANGE INDICES, VICTORIA, 1959

May					June			
	D	H	Z	K	D	H	Z	K
1	0433 2111	0222 3111	0223 3010	0433 3111	3222 2211	4221 1212	2222 1212	4222 2212
2	2331 1112	2330 1113	2230 1111	2331 1113	2243 3343	3233 3344	2232 1223	3243 3344
3	1122 2221	2111 2332	1111 1111	2122 2332	3533 3311	3423 2223	2423 1123	3533 3323
4	2233 3223	3233 3225	2123 2114	3233 3225	3554 3333	5334 2225	3233 2123	5554 3335
5	5523 4210	6433 3111	6432 2111	6533 4211	3422 4322	4422 2222	2222 1111	4422 4322
6	1112 1110	2111 1111	1001 1101	2112 1111	1143 3311	2222 2313	1112 2212	2243 3313
7	1012 2212	2112 1123	1001 1112	2112 2223	1422 2222	1411 1222	1211 1111	1422 2222
8	2556 4324	3545 3335	2356 4113	3556 4335	1133 2341	2032 1222	1032 1121	2133 2342
9	3223 3322	3223 3333	2122 2222	3223 3333	3445 3221	4344 5333	3244 5221	4445 5333
10	2245 2323	3333 2333	2124 1322	3345 2333	3532 2211	4532 2222	3433 1111	4533 2222
11	3243 5334	3233 3344	2232 3123	3243 5344	1224 3311	2125 4332	1205 4110	2225 4332
12	5565 5642	5555 6643	5566 5542	5566 6643	0100 1321	1201 0231	1101 0211	1201 1331
13	1244 4323	2233 2323	2143 2222	2244 4323	1200 1211	2100 0112	2100 1111	2200 1212
14	1102 2111	1101 3221	1102 3210	1102 3221	1102 2201	2202 2223	1100 2012	2202 2223
15	3324 3234	3234 3335	2223 3223	3334 3335	1133 2110	2231 2112	1132 1111	2233 2112
16	3564 2111	4543 1123	3544 1122	4564 2123	1321 1011	2321 1122	2211 0121	2321 1122
17	1133 3221	2133 3331	2122 4211	2133 4331	0001 1122	1000 1122	1000 1111	1001 1122
18	3543 2322	4543 1234	3432 1212	4543 2334	1221 2310	3322 2222	2200 1121	3322 2322
19	2313 2222	3323 2223	3213 3122	3323 3223	1322 2211	2222 2112	2101 1110	2322 2212
20	3232 2221	3222 2223	2122 1221	3232 2223	1111 2221	2211 1222	2200 1111	2211 2222
21	2223 1232	3323 1223	2223 1121	3323 1233	1122 2222	2222 1233	2111 1211	2222 2233
22	2243 3322	4342 2322	3243 2222	4343 3322	2133 3322	2323 2224	1213 2222	2333 3324
23	3322 1222	3322 1234	2312 1212	3322 1234	1211 2333	3322 2334	3111 1223	3322 2334
24	3475 4425	4565 4435	4265 4225	4575 4435	4641 0111	5530 0123	5530 1112	5641 1123
25	4343 1321	5443 1332	5343 1111	5443 1332	1212 1111	2212 1122	1201 1112	2212 1122
26	3001 1111	4102 1112	3101 1011	4102 1112	2553 3200	3443 2110	3354 2110	3554 3210
27	4312 2111	2221 2012	1211 1001	4322 2112	0033 4542	1133 4544	1132 2323	1133 4544
28	0210 1111	0100 1011	0100 0111	0210 1111	4463 4331	4543 5433	4453 5332	4563 5433
29	1012 0111	1011 0112	1000 0111	1012 0112	2366 5433	3366 5445	2176 6324	3376 6445
30	1001 2211	1001 2222	1001 1122	1001 2222	3445 5432	4346 4442	3247 4432	4447 5442
31	1233 4432	3433 3233	2122 4323	3433 4433				

July					August			
	D	H	Z	K	D	H	Z	K
1	2331 1111	2321 2012	1210 1101	2331 2112	2453 4331	4343 4333	3342 3223	4453 4333
2	3552 2210	4441 2211	3342 1101	4552 2211	2552 2332	5442 2332	3441 0222	5552 2332
3	1001 1110	3121 1121	3110 1111	3121 1121	3353 4321	2343 3332	3352 2231	3353 4332
4	1003 2332	3123 3344	2113 3323	3123 3344	2234 4332	2324 3423	2224 4331	2334 4433
5	2545 3222	4432 3222	2332 3121	4545 3222	2242 3321	3221 3432	2100 1222	3242 3432
6	1134 3221	3233 3333	3222 2121	3234 3333	1434 4343	3333 3444	2123 4222	3434 4444
7	2345 3211	3234 2322	3233 2211	3345 3322	3353 3333	3322 1323	2203 3122	3353 3333
8	2344 3331	2333 2323	2122 2221	2344 3333	2344 3212	2123 2313	1023 3111	2344 3313
9	1454 5331	2442 3334	2142 3222	2454 5334	2044 5431	3143 4432	2234 3421	3244 5432
10	4433 1111	4432 2122	4411 1211	4433 2222	2322 3332	3311 2213	3210 1121	3322 3333
11	3342 3534	3331 3545	3321 2334	3342 3545	1432 2211	3311 2212	3310 1110	3432 2212
12	4123 4211	5322 3323	4311 3211	5323 4323	2232 3221	2221 2212	2122 2212	2232 3222
13	2242 3311	4231 2333	3223 2222	4243 3333	1221 1232	3322 1222	1000 1211	3322 1232
14	3544 3221	4433 4312	3433 3211	4544 4322	2112 2231	3322 1222	2201 0111	3322 2232
15	3546 7996	5569 9897	5468 8977	5569 9997	3313 3344	4223 3445	3201 1223	4323 3445
16	5552 2234	6542 3334	5443 2224	6553 3335	4357 8653	5368 7645	3267 7546	5368 8656
17	1445 3897	4434 2887	3323 3766	4445 3887	6776 5433	7767 4534	8976 4533	8976 5534
18	6786 4633	7695 4534	6785 4533	7796 4634	4562 3332	3442 3343	3451 3322	4562 3343
19	4543 3332	5532 3333	4433 2322	5543 3333	2443 3332	4542 2333	3343 2122	4543 3333
20	3353 3322	4343 3324	3242 3223	4353 3324	2544 3332	3454 3244	2333 2222	3554 3344
21	2432 3322	4332 3333	2222 2221	4432 3333	3344 3443	4334 3444	3244 3233	4344 3444
22	3242 2322	3232 2324	3232 1212	3242 2324	3443 3433	4332 2344	4331 2222	4443 3444
23	4442 2121	5322 2113	3212 2111	5442 2123	4453 3433	3342 3434	3243 3223	4453 3434
24	2134 3443	3224 3444	3223 2232	3234 3444	3454 2322	4443 1324	2253 2212	4454 2324
25	4434 3443	4433 3454	4344 2332	4444 3454	3544 3322	3333 2222	2233 3111	3544 3322
26	3455 3443	5443 3444	4452 2223	5455 3444	2242 1221	3232 1212	2033 0111	3243 1222
27	5455 2333	4344 3333	4244 3222	5455 3333	2031 1110	2120 0011	2110 0000	2131 1111
28	3243 3221	3223 3222	3223 2121	3243 3222	1020 0111	0111 0111	1000 0000	1121 0111
29	3443 2221	3432 2212	2222 2111	3443 2222	2214 3532	3223 3432	2100 1321	2224 3532
30	2101 0110	2101 0222	2100 0111	2101 0222	2232 4312	3224 4222	3000 3212	3234 4322
31	1534 3233	2323 3235	2224 2123	2534 3235	2234 3321	2222 3222	1013 3111	2234 3322

