

M.O.709

AIR MINISTRY
METEOROLOGICAL OFFICE

THE OBSERVATORIES' YEAR BOOK

1955



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Comprising the meteorological and geophysical results
obtained from autographic records and eye observations
at the Lerwick, Eskdalemuir, and Kew Observatories

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PREFACE

The *Observatories' Year Book* was published for the years 1922 to 1937 in continuation of Part III Section II and Part IV of the *British Meteorological and Magnetic Year Book* for the period 1908 to 1921.

Publication of the *Observatories' Year Book* was necessarily suspended during the 1939-45 war. Restriction on supplies and printing since the war resulted in a regrettable long delay in the resumption of publication. In face of the formidable accumulation of arrears, and taking changed requirements into account, it was decided to adopt an abridged form as outlined below.

It was arranged that the General Introduction to the Meteorological Tables and the parts of the Sectional Introduction which deal with site, instruments, procedure and tabulation included in the volume for 1938 should serve as standards of reference for many years; and that only important departures from these standards, together with any requisite additional information should be included in the relevant parts of the volume for the years after 1938. As compared with the volumes before 1938, the space devoted to the discussion of observations is reduced. Monthly tables of individual hourly values of meteorological elements are omitted, but summaries of daily mean values (or totals), monthly means (or totals) of hourly values and some maximum and minimum values are given. The diary of cloud, weather and visibility is also omitted. No major changes have been made in the atmospheric electrical and magnetic tables. The aerological and seismological tables were discontinued after 1939.

The present volume, 1955, presents atmospheric electrical and geomagnetic data for Lerwick Observatory; meteorological, atmospheric electrical and geomagnetic data for Eskdalemuir; meteorological, atmospheric electrical and atmospheric pollution data for Kew. Aberdeen Observatory closed at the end of 1947.

Manuscript tabulations of hourly values of the meteorological elements are available at the observatories. Requests for information from these tabulations should be addressed to the Director-General, Meteorological Office, London Road, Bracknell, Berkshire.

NOTE ON THE TABLES. - Maximum and minimum values are shown in italics.

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ERRATA IN PREVIOUS VOLUMES

Observatories' Year Book, 1951

Page 47, line 29, for "1 for declination" read "1' for declination"

Observatories' Year Book, 1953

Page iii, Preface, para. 2, line 4. Insert the words "adopt an" between the words "to" and "abridged"

Page 39 and 94. Headings to Tables 63 and 149. For "T" read "F"

Page 45, Introduction, lines 12, 13 should read "The highest gust of wind during the year was 32.5 m./sec. (63 knots) on 31 January. The highest hourly speed was 16.3 m./sec. (32 knots) on 11 April"

Page 46, line 5 of Terrestrial Magnetism. For "T" read "F"

Page 59, Table 89. Heading and second footnote. For "7h." read "9h."

Observatories' Year Book, 1954

Page iii, Preface, para. 2, line 4. Insert the words "adopt an" between the words "to" and "abridged"

Page 6, Table 5(c). Heading. Second "K" should read "K'". Replace "Other S.F.E." by "Flare or S.F.E."

Page 6, Table 5(c). Last column. In all three entries delete "S.F.E."

Page 10, Table 7. Heading. Adjust spelling of "adjusted"

Page 39, Table 61. Heading. For "Tables 52-54" read "Tables 57-59"

Page 39, Table 63. Heading. For "T" read "F"

Page 49, Table 70(c). Heading. Second "K" should read "K'". Replace "Other S.F.E." by "Flare or S.F.E."

Page 49, Table 70(c). Last column. In all three lines insert "Doubtful"

Page 58, Table 89. Heading and second footnote. For "7h." read "9h."

Page 94, Table 149. Heading. For "T" read "F". Also, Declination heading. For "12⁰⁰" read "11⁰⁰"

Page 112, Table 173. Heading and second footnote. For "6h." read "9h."

Observatories' Year Book, 1957

Page 3, Introduction, line 3. For "0°11'W" read "1°11'W"

Page 5. Transfer first sentence of para. 4 to end of para. 3

Page 9, 4th line from foot of page. Delete "d" from word "coild"

Observatories' Year Book, 1958

Page 3, Introduction, line 3. For "0°11'W" read "1°11'W"

Page 60, Table 19. Title. For "Other Scottish Stations" read "British Isles"

LERWICK

LERWICK OBSERVATORY

Latitude 60°08'N.
Longitude 1°11'W.
G.M.T. of Local Mean Noon 12h. 5m.
Height of site above M.S.L. .. 80 to 90 metres

INTRODUCTION

Full details of the site, instruments procedure and tabulations are given in the *Observatories' Year Book*, 1938. Only important changes and additions are mentioned here.

Atmospheric electricity

No changes were made in 1955

Aurora

Table 65 is now a general auroral table giving a summary of the observations of aurorae in the British Isles. It is compiled from the detailed observations received at the Balfour Stewart Laboratory, University of Edinburgh.

Terrestrial magnetism

Until 1946 the chamber was unheated but in June of that year small, low temperature thermostatically controlled a.c. electric heaters were installed in order to reduce the persistent damp. The diurnal variation of temperature has continued negligibly small.

The average day-to-day change of temperature in the magnetograph house for each of the twelve months of 1955 and for the year as a whole was as follows (in degrees Absolute);

Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Year
·29	·14	·16	·27	·21	·31	·51	·13	·22	·40	·50	·42	·30

There were 21 occasions on which the change reached or exceeded 1°A.

Notes on the results

Beginning with 1947 some changes have been made in the tables accompanying these notes. The month by month commentary on the autographic records has been omitted, and a change has been made in the table formerly headed "Principal Magnetic Disturbances". It is intended that all the disturbances, which would have been included in the previous type of table, will still be included, with, however, additional disturbances of the form of sudden commencements and those which can be recognised as being solar flare effects. The table is thus divided into three parts:

- (a) Disturbances noteworthy for some reason (usually, but not always, range) and without a sudden commencement.
- (b) Well marked sudden commencements whether followed by a large disturbance or not.
- (c) Disturbances accompanying a solar flare or other known solar flare effect.

The time given of commencement and ending of disturbances in (a) must depend on an arbitrary judgement. The list of sudden commencements under (b) will usually be a little

shorter than that given in the I.A.T.M.E. Bulletins because a somewhat stricter meaning has been given to the words "well marked", and also because the sharp beginnings of small polar disturbances have been omitted. The (c) table has been made as complete as possible by a careful scrutiny of the magnetograms at the time of any known solar flare or solar flare effect, but a small "crochet" can easily be masked by other disturbance. The signs given to the movements of H , D and Z are positive for increasing H or Z and an increase of force towards the east (that is a decreasing westerly declination).

Particulars of the same disturbances are given in both the Lerwick and the Eskdalemuir sections of the *Observatories' Year Book*, even if the disturbance at one of the stations is relatively small.

The factor to change variations of D expressed in minutes of arc to units of force (γ) perpendicular to the magnetic meridian was approximately 4.21. Comparing the mean values for all days of 1955 with those for 1954 it is noted that H increased by 14 γ , D (West) decreased by 6.5 and Z increased by 26 γ . The ranges between the extreme values recorded in 1955 were H 2437 γ , D 3°42'8 and Z 914 γ .

The K index is fully described in *Terrestrial Magnetism and Atmospheric Electricity**. Briefly, a figure is allotted on a scale 0-9 to each 3-hour interval. The figure is a measure of the range of magnetic force during that period, measured from a curved line which represents the normal quiet day variation. The figures are first allotted from the H magnetogram, and then increased, if necessary, by inspection of the D and Z curves, so that the most disturbed component determines the final figure. The scale of ranges in γ corresponding to the figures 0-9 varies from observatory to observatory. The lower limit of each number for Lerwick is

K	0	1	2	3	4	5	6	7	8	9
γ	0	10	20	40	80	140	240	400	660	1000

TABLE I - ABSOLUTE DAILY RANGE AND MEAN MONTHLY VALUES

	Mean absolute daily range						Mean daily range expressed as percentage of yearly mean					
	1955			Mean 1932-53			1955			Mean 1932-53		
	H	D	Z	H	D	Z	H	D	Z	H	D	Z
	γ	γ	γ	γ	γ	γ	%	%	%	%	%	%
January	108	91	87	100	102	104	98	97	89	63	90	78
February	83	85	97	124	113	123	76	90	99	78	100	92
March	129	123	125	216	149	176	117	131	128	135	132	132
April	174	120	140	204	120	163	158	127	143	128	106	122
May	157	104	113	195	111	141	143	110	115	122	98	106
June	97	78	74	150	94	109	88	83	76	94	83	82
July	88	72	63	158	96	110	80	77	64	99	85	83
August	84	75	67	178	111	135	76	79	68	111	98	101
September	94	89	108	209	133	170	86	94	110	131	118	128
October	91	93	92	188	129	164	83	99	94	118	114	123
November	141	114	129	107	101	112	128	121	132	67	89	84
December	70	86	78	89	93	96	64	92	80	56	82	72
Winter	101	94	98	105	103	109	91	100	100	66	91	82
Equinox	122	106	116	204	134	168	111	113	119	128	119	126
Summer	107	82	79	170	103	123	97	87	81	106	91	92
Year	110	94	98	160	113	133	..	..	..	..	..	..

"Winter" comprises the four months January, February, November, December; "Equinox" the months March, April, September, October; and "Summer" May to August.

*BARTELS, J., HECK, N.H. and JOHNSTON, H.F.: The three-hour-range index measuring geomagnetic activity. *Terr. Magn. atmos. Elect., Baltimore*, **44**, 1939, p.411.

TABLE 2 - FREQUENCY DISTRIBUTION OF ABSOLUTE DAILY RANGE

Range	Number of cases, 1955			Percentage distribution					
	H	D	Z	H		D		Z	
				1955	1932-53	1955	1932-53	1955	1932-53
				%	%	%	%	%	%
0 - 9	0	0	3	0.0	0.0	0.0	0.0	0.8	0.3
10 - 19	5	7	28	1.4	1.4	1.9	0.4	7.7	6.8
20 - 29	16	9	45	4.4	4.9	2.5	2.3	12.3	10.5
30 - 39	35	16	46	9.6	6.3	4.4	4.0	12.6	9.3
40 - 49	40	45	37	11.0	7.5	12.3	7.3	10.1	7.2
50 - 59	52	48	23	14.2	9.3	13.2	10.0	6.3	6.2
60 - 69	44	58	24	12.0	9.1	15.9	12.3	6.6	5.1
70 - 79	35	39	13	9.6	8.6	10.7	10.5	3.6	4.4
80 - 89	26	20	13	7.1	7.4	5.5	9.2	3.6	3.9
90 - 99	22	21	11	6.0	5.8	5.8	7.0	3.0	3.4
100 - 109	13	17	15	3.6	4.3	4.7	5.6	4.1	3.3
110 - 119	7	10	11	1.9	3.5	2.7	4.0	3.0	2.9
120 - 129	10	5	8	2.7	2.9	1.4	3.6	2.2	2.6
130 - 139	6	15	9	1.6	2.2	4.1	3.1	2.5	2.6
140 - 149	2	11	7	0.5	2.4	3.0	2.9	1.9	2.3
150 - 159	5	7	7	1.4	1.6	1.9	1.8	1.9	2.0
160 - 169	2	5	9	0.5	1.5	1.4	1.9	2.5	1.8
170 - 179	3	2	4	0.8	1.1	0.5	1.4	1.1	1.4
180 - 189	5	4	5	1.4	1.1	1.1	1.5	1.4	1.4
190 - 199	1	4	4	0.3	1.0	1.1	1.1	1.1	1.5
200 +	36	22	43	9.9	18.3	6.0	10.0	11.8	21.1
Days omitted	0	0	0	..	..	..	..	..	..

TABLE 3 - AVERAGE RANGE OF DIURNAL INEQUALITY 1932-53
WITH 1955 AS PERCENTAGE OF THIS

		All days			International quiet days			International disturbed days		
		Z	H	D	Z	H	D	Z	H	D
Year	1932-53	γ	γ	γ	γ	γ	γ	γ	γ	γ
	1955(%)	53.3	49.4	9.36	10.3	37.4	8.68	131.1	131.6	14.22
Winter	1932-53	74	71	88	99	80	83	83	56	90
	1955(%)	41.1	24.4	7.87	7.7	15.1	4.65	116.6	85.0	13.84
Equinox	1932-53	91	78	90	87	88	88	97	117	100
	1955(%)	68.8	59.2	10.94	12.9	42.3	9.54	168.9	193.4	18.89
Summer	1932-53	72	63	86	74	75	74	80	50	79
	1955(%)	53.0	72.6	12.72	17.0	57.5	12.77	134.0	156.9	15.61
		60	76	87	111	86	87	68	51	86

"Winter" comprises the four months January, February, November, December; "Equinox" the months March, April, September, October; and "Summer" May to August.

TABLE 4 - RATIO OF RANGE OF INEQUALITY AT LERWICK TO THAT AT ESKDALEMUIR 1955

Type of day	Element	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
q	D	.93	1.18	1.09	1.01	1.03	1.07	1.12	1.10	1.03	.96	.91	.91
d	D	1.65	1.21	1.27	1.51	1.36	1.17	1.12	1.22	1.28	1.31	1.25	1.20
q	H	.88	1.07	1.15	1.20	1.17	1.19	1.11	1.22	1.11	1.11	.83	.99
d	H	3.67	1.62	4.43	3.71	2.09	1.16	1.31	1.54	1.44	1.48	3.11	2.49
q	Z	1.75	1.30	.96	.62	.74	1.01	.87	1.03	.89	.69	2.09	.70
d	Z	1.78	2.30	1.94	1.63	1.77	2.43	2.27	2.16	1.96	2.02	1.76	1.95

TABLE 5 - NOTEWORTHY MAGNETIC DISTURBANCES AT LERWICK

(a) Disturbances without S.C.'s

Serial Number	From		To		Range (γ)			Notes
	Date	Hour	Date	Hour	H	D	Z	
1a	Jan. 17	12	Jan. 18	09	1283	382	430	
2a	Feb. 28	00	Feb. 28	09	297	140	270	
3a	Mar. 22	09	Mar. 22	22	660	310	285	
4a	Oct. 25	00	Oct. 26	24	372	253	472	
5a	Nov. 18	16	Nov. 18	24	491	360	239	
6a	Dec. 1	13	Dec. 2	08	692	358	455	

(b) Disturbances with a S.C.

Serial Number	Date	Time of S.C.	End of Disturbance		With initial reversed stroke			Magnitude main stroke of S.C.			Range of following disturbance (γ)		
			Date	Hour	H	D	Z	H	D	Z	H	D	Z
1b	Jan. 11	12.19			Yes	Yes	No	γ +8	γ -8	γ -6		Small	
2b	Mar. 30	10.39	Mar. 31	24	No	No	No	Small and indistinct			474	284	435
3b	Apr. 24	12.13	Apr. 25	02	Yes	No	No	+3	-8	0	363	192	330
4b	Apr. 27	16.24	Apr. 28	05	Yes	Yes	Yes	+69	-20	-17	1131	447	807
5b	May 25	14.33	May. 26	11	Yes	Yes	Yes	+30	-12	-12	1027	625	565
6b	June 6	17.28			No	No	No	+26	-12	-9		Small	
7b	June 22	10.39			Yes	Yes	No	+7	+8	-2		Small	
8b	Oct. 5	11.18	Oct. 6	10	No	No	No	+20	-28	-5	318	332	340
9b	Oct. 7	22.57			No	No	No	+26	-14	-6		Small	
10b	Nov. 19	13.19	Nov. 21	04	Yes	Yes	No	+112	-120	+60	1479	616	633

(c) Disturbances due to Solar Flare

Serial Number	Date	Commence-ment	Max.	End	Movement (γ)			K	K'	Flare of S.F.E.
					H	D	Z			
1c	July 2	10.18	10.23	10.28	+7	-7	0	2	2	
2c	July 3	16.06	16.20	16.24	+20	-9	-6	2	2	
3c	Aug. 30	16.16	16.20	16.23	+8	-4	-3	2	2	
4c	Nov. 12	11.28	11.33	11.54	-16	-39	+15	3	3	S.W.F., S.F., S.E.A.
5c	Dec. 3	11.03	11.13	11.20	-8	-4	+3	1	1	S.W.F., S.F.,

all these are doubtful S.F.E.

S.E.A. - Sudden enhancement of atmospherics

S.W.F. - Short wave radio fade out

S.F. - Solar Flare

POTENTIAL GRADIENT (reduced to level surface)
Mean values for periods of sixty minutes between exact hours, G.M.T.

6 LERWICK

	JANUARY, factor 1.02				FEBRUARY, factor 1.02				MARCH, factor 1.07			
	2-3h.	8-9h.	14-15h.	20-21h.	2-3h.	8-9h.	14-15h.	20-21h.	2-3h.	8-9h.	14-15h.	20-21h.
					<i>volts per metre</i>							
1	133	125	-	125	-206	463	473	(735)	167	-540	672	157
2	85	83	100	125	380	257	93	247	93	107	183	177
3	68	75	100	181	269	465	269	282	245	293	-147	150
4	118	80	93	95	98	149	-	110	108	173	131	103
5	-175	-187	155	-	73	147	145	-	50	88	156	98
6	-	-	93	133	76	Z±	Z±	245	83	111	151	108
7	67	137	75	163	171	247	196	211	48	35	132	152
8	125	200	-57	150	93	181	178	98	116	127	195	127
9	50	129	229	-485	71	132	-	156	76	97	104	109
10	-	-	361	(349)	68	-	-	-210	102	117	-	-
11	137	-	Z±	>647	81	-51	146	>439	153	133	107	153
12	92	224	149	>1046	171	329	146	190	84	77	105	77
13	-	112	322	-	51	149	171	220	87	125	131	3
14	486	>322	372	446	100	159	495	159	100	77	123	126
15	136	211	-	595	71	78	100	171	103	52	129	106
16	99	Z±	112	260	-	-	195	-	77	98	103	163
17	-	-	273	-	-	-	-	-	78	324	155	34
18	-	-	-	198	-	277	196	257	-130	96	Z±	Z±
19	94	185	143	122	Z±	-	355	Z±	-52	339	Z±	183
20	168	210	148	153	125	Z±	269	221	81	107	Z±	207
21	259	405	267	247	157	108	167	-344	126	-	-	262
22	-758	321	111	148	76	111	246	332	181	318	247	263
23	99	148	113	25	258	428	622	197	182	185	224	222
24	-123	136	143	207	104	210	316	259	106	130	114	146
25	106	135	374	369	-	-	151	225	8	146	80	109
26	246	256	-44	197	117	181	122	154	106	157	168	242
27	93	172	431	364	99	136	213	516	133	150	160	163
28	98	172	123	221	149	107	-558	-705	172	126	126	163
29	295	460	553	492					86	153	147	-43
30	598	657	192	239					81	40	110	159
31	245	519	661	593					135	-315	83	145
(a)	169	228	228	292	130	216	239	258	109	142	140	147
(b)	102	236	197	190	129	226	203	170	110	95	98	131
Mean	(a) 229		(b) 181		(a) 211		(b) 182		(a) 135		(b) 109	

	APRIL, factor 1.11				MAY, factor 1.17				JUNE, factor 1.17			
	2-3h.	8-9h.	14-15h.	20-21h.	2-3h.	8-9h.	14-15h.	20-21h.	2-3h.	8-9h.	14-15h.	20-21h.
					<i>volts per metre</i>							
1	35	135	189	162	-	-	285	313	283	348	222	290
2	181	130	1147	540	-	-117	70	93	333	293	154	132
3	(-661)	8	127	162	84	117	-	187	363	271	176	139
4	87	163	827	103	-163	-	-	780	209	108	225	179
5	182	154	298	534	61	154	262	434	123	138	114	153
6	27	-331	298	515	173	280	107	107	98	163	175	184
7	117	299	150	226	112	126	117	154	123	175	132	175
8	305	209	256	128	163	-	187	154	101	71	169	-
9	-27	164	164	224	-126	126	47	84	-	-	101	153
10	235	-	-	-	0	47	93	107	147	37	Z-	129
11	-	-	97	70	107	-	-785	-188	104	122	122	214
12	82	122	55	152	132	157	144	126	132	77	153	177
13	158	131	143	106	94	116	157	166	101	153	138	174
14	158	182	61	(152)	235	501	-157	163	174	320	235	101
15	-	-	106	30	218	147	134	115	98	143	82	122
16	67	-	43	-	452	265	415	109	101	113	153	131
17	-	64	-	-	103	125	162	125	82	91	182	161
18	-	-	122	213	-	-	62	124	85	170	170	204
19	-	-	499	176	109	193	140	498	143	161	176	195
20	91	106	131	161	155	(-84)	77	233	146	152	176	158
21	73	9	128	112	171	109	99	136	115	145	-	230
22	97	213	-152	76	133	146	99	124	312	70	91	127
23	82	116	164	122	130	155	130	109	82	88	100	491
24	94	134	170	271	211	186	77	248	130	182	-	151
25	152	143	70	152	149	93	139	146	91	100	60	106
26	164	122	-	161	93	115	155	248	103	130	565	432
27	365	608	517	-243	195	185	287	226	453	181	-	-
28	-	-	133	133	226	170	155	142	-	-	135	494
29	159	133	199	531	105	124	176	232	144	292	120	105
30	354	190	111	-	371	371	201	185	120	141	169	211
31					228	317	256	379				
(a)	148	161	239	208	162	180	157	208	161	158	165	197
(b)	88	141	247	209	155	172	145	191	154	166	169	190
Mean	(a) 189		(b) 171		(a) 177		(b) 166		(a) 170		(b) 170	

The potential gradient is reckoned as positive if the potential increases upwards. For indeterminate potential gradient the following notation is used: Z+, indeterminate, positive value; Z-, indeterminate, negative value; Z±, indeterminate, in magnitude and sign.

(a) Mean of all positive readings.

(b) Mean from all complete days using both positive and negative readings.

POTENTIAL GRADIENT (reduced to level surface)
Mean values for periods of sixty minutes between exact hours, G.M.T.

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6 LERWICK

	JULY, factor 1.10				AUGUST, factor 0.99				SEPTEMBER, factor 0.94			
	2-3h.	8-9h.	14-15h.	20-21h.	2-3h.	8-9h.	14-15h.	20-21h.	2-3h.	8-9h.	14-15h.	20-21h.
					<i>volts per metre</i>							
1	285	249	285	93	263	191	100	128	31	159	-	-
2	-279	-525	150	99	72	84	72	119	96	-	-	113
3	114	150	51	195	115	131	103	159	150	144	92	250
4	165	156	120	150	186	189	118	152	68	109	51	263
5	165	141	150	180	117	303	185	281	390	85	137	127
6	114	170	60	48	169	197	151	105	-	-	-	-
7	45	120	-	-	104	80	92	126	-	-	-	-
8	-	-	265	563	83	110	107	162	-	-	-	-
9	366	321	231	208	46	131	107	149	-	-	-	-
10	259	203	197	394	119	119	128	116	-	-	-	-
11	96	124	253	253	85	139	91	151	-	-	-	-
12	146	315	225	180	97	91	115	142	-	-	-	-
13	552	366	552	225	69	102	129	120	-	-	-	-
14	208	141	186	129	151	244	138	181	-	-	-	-
15	56	62	197	281	198	453	360	543	-	-	-	-
16	248	338	152	158	54	6	90	422	-	-	-	-
17	113	118	141	169	170	542	-54	378	173	-	-	247
18	113	129	-	197	122	95	389	413	67	107	133	174
19	-	-	-	-	299	411	30	246	27	454	-	107
20	-	-	-	-	147	209	230	401	99	248	403	820
21	-	-	-	-	115	185	(632)	144	-	-	-	375
22	-	-	-	404	88	155	167	305	-	-	-	402
23	216	177	193	145	137	76	117	216	67	-	482	378
24	96	180	177	177	105	93	131	134	182	474	239	188
25	134	160	224	160	93	342	290	510	73	129	73	269
26	80	278	223	415	113	-	29	17	67	91	91	126
27	588	582	216	213	-	144	144	170	81	81	65	27
28	73	86	79	120	95	112	132	100	48	108	-135	164
29	95	117	95	145	31	-23	117	283	81	159	116	157
30	183	576	120	331	77	114	111	171	95	116	86	143
31	188	94	104	440	97	94	131	99	-	-	-	-
(a)	188	214	186	225	121	177	158	214	106	176	164	241
(b)	178	191	183	205	121	172	155	223	117	154	113	226
Mean	(a) 203		(b) 189		(a) 167		(b) 168		(a) 172		(b) 153	

	OCTOBER, factor 0.96				NOVEMBER, factor 0.99				DECEMBER, factor 1.03			
	2-3h.	8-9h.	14-15h.	20-21h.	2-3h.	8-9h.	14-15h.	20-21h.	2-3h.	8-9h.	14-15h.	20-21h.
					<i>volts per metre</i>							
1	81	132	67	49	31	44	142	145	-52	159	96	-
2	-16	143	-95	154	153	347	250	270	73	46	52	Z±
3	-122	171	79	111	167	306	(639)	367	96	(495)	189	(378)
4	60	81	79	103	279	-36	162	432	Z±	102	134	145
5	79	117	255	Z±	419	446	432	377	12	116	-	137
6	27	79	35	163	335	190	237	516	93	79	64	111
7	57	109	150	125	176	280	140	196	>350	50	-	Z±
8	82	139	188	160	280	308	-	176	>496	<-350	234	88
9	82	95	44	44	70	112	308	280	9	29	117	138
10	144	275	231	158	197	155	37	188	50	439	352	278
11	49	160	163	92	112	309	126	141	111	88	170	176
12	177	393	169	55	56	71	56	99	88	88	176	417
13	101	-183	82	137	113	99	85	107	82	235	147	94
14	82	Z±	137	Z±	85	93	141	85	156	-118	79	59
15	Z±	104	147	115	76	93	85	57	82	244	229	>1028
16	Z±	55	238	(384)	57	65	150	156	89	133	177	(590)
17	293	Z±	82	142	99	156	114	142	147	147	-	-
18	90	71	79	186	85	125	85	142	-	-	-	-
19	85	38	-	77	123	114	85	77	-	-	-	619
20	Z±	179	52	110	71	66	114	66	Z±	Z±	Z±	230
21	>220	55	127	157	71	86	143	92	148	110	178	178
22	47	58	83	115	43	106	71	157	89	148	201	68
23	41	83	162	113	100	77	86	92	124	237	-	192
24	83	119	124	152	192	121	115	115	59	118	178	118
25	44	19	171	110	58	124	187	144	148	118	184	124
26	91	Z±	66	124	-78	86	86	115	95	198	142	216
27	28	179	>496	Z±	0	-37	109	127	Z±	356	128	163
28	Z±	194	139	166	87	92	116	145	-113	>950	Z±	214
29	28	86	208	75	66	87	130	78	Z±	134	149	154
30	208	150	277	175	73	73	131	107	59	89	178	>564
31	72	97	119	64	-	-	-	-	149	89	119	110
(a)	94	125	147	129	127	151	157	173	122	192	160	253
(b)	67	114	121	117	114	133	157	173	97	150	165	204
Mean	(a) 124		(b) 105		(a) 152		(b) 144		(a) 182		(b) 154	

The factor used for converting the potential at the collector to potential gradient in volts per metre in the open is given for each month.

Annual means	(a)	136	177	178	212
	(b)	119	163	163	186
	(a)	176	(b)	158	

B

POTENTIAL GRADIENT (reduced to level surface): DIURNAL INEQUALITIES
The departures from the mean of the day are adjusted for non-cyclic change†

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	Hour G.M.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	Non- cyclic change†	No. of days used	Mean
	volts per metre																										
	0a days only*																										
Jan.	+2	-13	-33	-51	-45	-41	-38	-38	-35	-46	-33	-22	-22	-1	-19	+5	+95	+102	+47	+53	+29	+38	+51	+15	+20	2	117
Feb.	-49	-41	-54	-67	-64	-6	+14	+19	+40	-16	+21	-4	-33	-35	-25	+1	+19	+49	+70	+56	+86	+62	+4	-48	+21	3	224
Mar.	-21	-33	-32	-23	-19	-28	-11	-1	+1	-3	-3	-12	+2	+12	+16	+6	+3	+33	+39	+33	+29	+12	+11	-13	-30	7	149
Apr.	+40	+22	+16	+18	+17	-7	-15	-43	-36	-59	-57	-43	-41	-45	-39	-42	+19	+33	+92	+109	+102	+15	-55	-1	+185	4	204
May	+2	-2	+9	+2	0	+18	-4	+8	+8	-40	-48	-23	-8	-23	-14	-4	+17	+25	+17	+24	+19	+16	+4	-2	+13	10	180
June	-6	-12	-8	-19	-14	-2	-6	-3	+2	-27	-13	-13	-11	-10	+7	+23	+14	+18	+10	+11	+8	+4	+25	+22	+21	16	173
July	-11	-9	-7	-8	-3	+29	+39	+59	+33	-12	-19	-38	-15	-32	-11	-6	+7	-16	+10	+30	+17	-3	-17	-19	-15	17	203
Aug.	-8	-28	-34	-40	-31	-7	+2	+3	-1	-34	-14	-7	-7	+5	+5	-14	-5	+12	+25	+37	+50	+61	+29	+1	+7	17	138
Sept.	+6	-12	-23	-61	-71	-77	-81	-58	-19	-73	-97	-66	+75	+40	-35	-63	-27	-59	+23	+103	+185	+150	+133	+110	+269	2	255
Oct.	-37	-29	-43	-43	-40	-18	-16	+10	+14	-7	+11	+3	+17	+19	+11	+36	+46	+74	+52	+14	-1	-24	-24	-26	-18	4	118
Nov.	-46	-42	-41	-31	-12	0	+2	-2	-2	-11	+13	+20	+20	+20	+75	+13	+18	+30	+30	+21	+10	+2	-7	-18	-20	8	127
Dec.	-9	+19	-16	-18	-9	-38	-56	-58	-58	-60	-37	-27	-20	-28	-11	+55	+20	+114	+50	+86	+188	-40	-116	+69	+165	1	170
Year	-11	-15	-22	-28	-24	-15	-14	-9	-4	-32	-23	-19	-4	-7	-3	+1	+19	+35	+39	+48	+60	+24	+3	+7	+51	91	171
Winter	-25	-19	-36	-42	-33	-21	-19	-20	-14	-33	-9	-8	-14	-11	+5	+19	+38	+74	+49	+54	+78	+15	-17	+5	+47	14	159
Equinox	-3	-13	-21	-27	-28	-33	-31	-23	-10	-35	-37	-29	+13	+7	-12	-16	+10	+20	+51	+65	+79	+38	+16	+17	+101	17	181
Summer	-6	-13	-10	-16	-12	+9	+8	+17	+11	-28	-23	-20	-10	-15	-3	0	+8	+10	+15	+25	+23	+19	+10	+1	+7	60	173
	1a and 2a days only*																										
Jan.	-93	-111	-73	-5	-2	-10	-25	+28	+37	+19	+30	+38	+33	+44	+41	+47	-61	-8	+18	+22	+43	+52	-4	-59	-27	9	228
Feb.	-43	-39	-44	-9	-67	-65	-3	-13	+21	+22	+43	+45	+18	+27	+57	+19	+7	+15	+10	+17	+16	-4	-8	-23	-28	6	193
Mar.	+21	+69	+51	-29	-40	-31	-27	-78	-71	-41	-24	-35	-51	-22	-24	+18	+66	+62	+41	+42	+45	+49	+26	-17	+45	9	64
Apr.	-117	-140	-127	-117	-143	-91	-76	-50	-48	-54	-27	+2	+19	+103	+242	+214	+133	+47	+55	+88	+80	+90	+8	-92	-122	7	166
May	+49	-43	-231	-105	-14	+19	-2	-29	-45	-99	+6	+43	+131	+91	-17	+67	+43	+45	-5	-35	+100	+16	+7	+7	-52	2	177
June	-2	+27	+7	-17	-47	-102	-119	-1	-3	-40	-33	-20	-19	-3	+11	+29	+59	+53	+43	+31	+40	+33	+41	+33	-93	4	128
July	-31	-22	-18	+51	+27	+18	+15	+17	+8	-11	-15	+20	+19	+5	-33	-45	-49	+8	-10	-3	+24	+34	-5	-4	-87	4	192
Aug.	-42	-30	-32	-51	-33	+18	+65	+30	+44	-8	-34	-58	-94	-10	-13	-22	-46	+15	+74	+108	+88	+59	+8	-34	-26	7	169
Sept.	+40	-15	-16	+3	+18	+30	+45	+87	+15	-137	+6	+22	-23	-26	-27	-43	-81	-18	+26	+16	+25	+20	+13	+20	-93	4	159
Oct.	-12	-10	-36	-28	-40	-54	-21	+1	+15	-4	-6	-10	-9	+6	+29	+29	+36	+26	+5	+21	+20	+18	+19	+5	-17	7	112
Nov.	+7	-4	-14	-7	+7	+7	-57	-24	-53	-96	-109	-126	-88	-32	-10	+16	+48	+90	+84	+119	+81	+96	+53	+12	-3	8	133
Dec.	+12	-15	-41	-50	-58	-53	-23	-3	+12	+9	-17	-2	+41	+33	+44	+48	+38	+53	+56	+47	+38	-37	-69	-65	-37	3	127
Year	-18	-28	-48	-30	-33	-26	-19	-3	-6	-37	-15	-7	-2	+18	+25	+31	+16	+32	+33	+39	+50	+35	+7	-18	-45	70	154
Winter	-29	-42	-43	-18	-30	-30	-27	-3	+4	-11	-13	-11	+1	+18	+33	+33	+8	+37	+42	+51	+45	+27	-7	-34	-24	26	170
Equinox	-17	-24	-32	-43	-51	-37	-20	-10	-22	-59	-13	-5	-16	+15	+55	+55	+39	+29	+32	+42	+43	+44	+17	-21	-47	27	125
Summer	-7	-17	-69	-31	-17	-12	-10	+4	+1	-39	-19	-4	+9	+21	-13	+7	+2	+30	+25	+25	+63	+35	+13	+1	-65	17	167

Winter: January, February, November, December

Equinox: March, April, September, October

Summer: May to August

* For explanation of 0a, 1a, 2a days see p.16. *Observatories' Year Book, 1938*

† See p.10. *Observatories' Year Book, 1938*

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	JANUARY		FEBRUARY		MARCH		APRIL		MAY		JUNE	
	Character	Duration of negative potential gradient	Character	Duration of negative potential gradient	Character	Duration of negative potential gradient	Character	Duration of negative potential gradient	Character	Duration of negative potential gradient	Character	Duration of negative potential gradient
		hr.		hr.		hr.		hr.		hr.		hr.
1	-	-	(2b)	3.1	2a	14.3	1a	1.1	(1b)	0.7	0a	...
2	0a	...	1a	1.1	1a	0.2	1a	1.5	(2a)	(9.2)	0a	...
3	0a	...	0a	...	1b	1.6	(2b)	4.1	(1a)	0.1	0a	...
4	1a	0.6	(0a)	...	1b	0.2	1a	0.7	(2a)	3.2	0a	...
5	(2b)	5.1	(1b)	-	0a	...	0a	...	1a	0.3	0a	...
6	-	-	1c	1.6	1a	0.3	1b	2.6	2b	3.1	0a	...
7	1b	1.0	1b	0.3	1a	1.1	0b	...	2b	3.1	0a	...
8	2b	3.7	(1a)	0.1	1b	0.3	1b	2.7	(1a)	-	(1a)	0.4
9	2b	7.6	(1c)	1.0	2a	3.8	1a	2.7	1a	1.1	(1b)	-
10	-	-	(1b)	2.1	(1a)	0.5	-	-	1c	0.7	1b	2.7
11	(1c)	(1.9)	(1c)	2.9	0a	...	-	-	(2b)	6.4	1b	0.4
12	1b	0.3	1b	0.8	1a	0.5	1b	0.6	1b	0.3	1a	0.1
13	(1c)	(1.6)	1a	0.5	1b	2.2	1a	0.5	(0b)	...	0a	...
14	1c	0.6	1b	0.7	0a	...	(1a)	-	1c	1.5	1b	1.3
15	(1b)	(0.8)	1a	0.6	1b	2.1	(0a)	...	1b	0.4	0a	...
16	(1c)	(1.4)	-	-	2c	3.8	(0a)	...	1c	1.8	1a	0.4
17	-	-	-	-	2c	3.1	(1a)	-	1b	1.3	0a	...
18	-	-	-	-	1c	2.8	(0a)	...	-	-	0a	...
19	1b	0.3	(2c)	3.4	1c	2.4	(0a)	...	1b	0.5	0a	...
20	1b	0.3	1b	1.0	1b	0.7	1a	1.0	(1b)	0.6	0a	...
21	1a	1.2	1b	1.2	-	-	1b	0.2	1b	0.7	(0a)	...
22	2b	6.0	1b	1.0	0a	...	2b	4.8	0a	...	1a	0.8
23	1a	2.7	1a	0.1	0a	...	1a	0.3	0a	...	1b	1.6
24	2a	3.4	1a	0.1	0a	...	0a	...	0a	...	(1b)	-
25	1a	0.3	-	-	1b	2.8	0a	...	0a	...	0a	...
26	2b	4.1	0a	...	1a	0.3	-	-	0a	...	0a	...
27	1a	0.8	0a	...	0a	...	2b	5.5	0a	...	-	-
28	1a	2.3	2b	12.3	1b	0.9	-	-	0a	...	-	-
29	1b	2.9	-	-	1a	0.4	0a	...	0a	...	(1a)	0.2
30	1a	0.5	-	-	(1b)	-	(0a)	...	0a	...	0a	...
31	1a	0.3	-	-	1a	1.9	-	-	0a	...	-	-
Total	30	49.7	23	33.9	27	46.2	19	28.3	24	35.0	11	7.9
No. of days used	26	26	24	23	30	29	26	24	30	29	28	26
Mean	1.15	1.9	0.96	1.5	0.90	1.6	0.73	1.2	0.80	1.2	0.39	0.3

	JULY		AUGUST		SEPTEMBER		OCTOBER		NOVEMBER		DECEMBER	
	Character	Duration of negative potential gradient	Character	Duration of negative potential gradient	Character	Duration of negative potential gradient	Character	Duration of negative potential gradient	Character	Duration of negative potential gradient	Character	Duration of negative potential gradient
		hr.		hr.		hr.		hr.		hr.		hr.
1	1a	1.7	0b	...	(0a)	...	1b	1.0	2c	4.7	(1b)	2.8
2	(2c)	7.6	0a	...	-	-	1b	2.3	0a	...	(1b)	-
3	0a	...	0a	...	0a	...	1b	1.6	(1b)	1.4	(1c)	1.9
4	0a	...	1a	0.1	1a	0.5	1a	0.2	1a	1.4	1c	1.3
5	0a	...	1a	1.7	1a	1.1	1c	2.9	0b	...	-	-
6	1a	0.4	0a	...	-	-	2b	4.7	1a	1.5	1b	0.5
7	(1a)	0.2	0a	...	-	-	0a	...	(1b)	1.1	(1c)	-
8	(0a)	...	0a	...	-	-	1a	0.1	(0a)	...	1c	1.7
9	0a	...	0a	...	-	-	(0a)	...	1b	0.2	1b	1.1
10	0a	...	0a	...	-	-	0a	...	1a	1.1	1b	1.3
11	0a	...	0a	...	-	-	2b	4.3	1b	1.9	1b	0.5
12	0a	...	0a	...	-	-	1a	0.1	1b	0.2	0a	...
13	0a	...	0a	...	-	-	2b	6.0	1b	0.2	1b	1.1
14	1b	0.5	0a	...	-	-	2c	3.4	0a	...	(1b)	1.3
15	1b	1.2	1a	0.2	-	-	1c	2.2	-	-	1c	1.3
16	1a	0.2	1b	2.2	(1a)	-	(2c)	4.4	0a	...	(1c)	2.4
17	0a	...	(1b)	(2.0)	(1b)	-	1c	2.1	0a	...	-	-
18	(0a)	...	0a	...	1b	0.9	1a	0.3	1a	0.4	-	-
19	-	-	1a	1.2	(1a)	(1.6)	(2b)	(4.5)	0a	...	-	-
20	-	-	(0a)	...	0a	...	1b	1.9	0a	...	2c	3.2
21	-	-	(0a)	...	(1a)	-	(1b)	0.3	0a	...	1b	1.4
22	-	-	0a	...	-	-	0a	...	2b	3.1	1b	0.3
23	0a	...	0a	...	-	-	1a	0.1	0b	...	-	-
24	0a	...	1a	0.2	1a	0.1	1a	0.6	0b	...	1a	0.8
25	0a	...	0a	...	1c	1.9	2a	3.1	1b	1.1	2a	3.1
26	0a	...	-	-	1b	2.3	1c	1.6	1a	1.2	1a	0.5
27	0a	...	(1b)	-	1a	1.3	1c	1.5	2a	5.9	1c	1.7
28	0a	...	0a	...	1b	1.6	1b	0.4	0a	...	2c	4.4
29	0a	...	1a	1.8	1b	2.9	1b	1.9	1a	0.7	1c	1.2
30	0a	...	(0a)	...	1b	1.5	1b	1.1	1a	2.7	1c	0.7
31	1a	0.2	1a	0.3	-	-	1b	2.5	-	-	1b	0.3
Total	9	12.0	10	9.7	14	15.7	34	55.1	20	28.8	28	34.8
No. of days used	27	27	30	29	17	14	31	31	29	29	26	24
Mean	0.33	0.4	0.33	0.3	0.82	1.1	1.10	1.8	0.69	1.0	1.08	1.5

Annual values: Character 0 1 2
No. of days used 110 179 35

Mean character figure 0.77 (324 days)

Duration: Total 357.1 hr.
No. of days 311
Mean 1.15 hr.

JANUARY 1955

	Hour G.M.T.																								
	0-1	1-2	2-3	3-4	4-5	5-6	6-7	7-8	8-9	9-10	10-11	11-12	12-13	13-14	14-15	15-16	16-17	17-18	18-19	19-20	20-21	21-22	22-23	23-24	Mean
	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ
1	460	463	460	460	460	464	469	470	468	461	462	460	461	467	468	464	461	464	464	464	461	457	455	457	463
2	447	456	457	460	462	463	464	466	467	467	467	467	468	469	473	473	468	466	467	468	465	465	455	456	464
3	456	456	458	459	461	461	460	460	468	463	458	456	458	464	464	469	470	468	468	467	468	465	465	462	463
4	462	445	432	452	465	468	472	472	470	461	457	456	462	454	455	463	460	454	460	456	452	464	456	457	459
5	454	455	457	458	458	460	461	463	464	461	457	454	457	462	464	466	468	464	467	468	463	479	460	446	461
6	456	453	450	453	459	461	463	466	465	462	457	461	464	468	466	464	459	461	458	453	457	457	461	458	460
7	457	460	466	457	460	461	464	464	464	458	460	458	463	467	457	457	460	460	448	451	457	455	458	460	459
8	457	453	456	457	460	460	462	458	460	461	457	455	456	457	461	463	462	464	460	457	457	466	468	461	459
9 d	472	446	452	455	456	457	449	475	473	464	453	442	445	456	464	442	458	456	456	447	458	457	457	457	456
10 q	457	455	454	455	457	459	462	466	467	464	457	456	455	457	457	457	451	456	458	459	462	461	460	459	458
11	460	453	449	457	463	468	467	463	463	463	462	461	449	420	427	463	467	469	466	464	461	461	423	429	455
12	422	409	451	457	459	459	462	464	463	462	459	455	452	454	459	464	466	465	466	468	466	464	463	461	457
13	461	464	454	456	468	468	465	468	467	471	459	444	443	446	444	448	456	458	461	459	456	456	456	458	458
14	457	457	458	456	461	466	468	468	468	469	470	470	468	462	451	450	449	448	456	457	461	461	458	458	460
15 q	457	458	459	462	464	463	464	464	464	466	464	463	464	463	460	457	461	463	464	464	465	464	464	462	462
16	460	460	461	462	463	465	468	468	467	468	476	479	483	484	476	464	466	465	464	462	463	468	459	461	467
17 d	460	459	461	461	463	465	465	466	478	482	481	477	470	480	465	470	441	450	453	464	453	457	489	444	465
18 d	258	-278	253	260	288	398	440	444	439	435	431	436	441	447	454	441	450	473	444	451	467	432	438	457	383
19 d	347	348	341	291	343	305	323	347	398	468	459	475	481	481	438	431	441	460	428	427	408	374	393	432	402
20 d	428	400	376	430	438	441	446	453	455	452	447	445	445	451	452	444	458	460	457	453	436	456	435	451	442
21	449	445	446	453	454	464	464	464	458	457	455	453	453	457	457	460	460	458	450	454	462	459	457	450	456
22	452	450	453	454	457	457	460	464	468	462	461	460	460	458	461	459	461	462	462	463	463	466	463	457	460
23	451	476	461	456	462	470	472	473	473	462	457	458	457	446	453	464	458	452	459	448	464	449	447	448	459
24 q	451	453	453	457	460	464	462	461	460	458	457	457	454	455	455	459	461	461	461	461	460	457	457	456	458
25 q	457	458	458	460	460	461	464	466	467	466	461	457	456	457	460	460	462	462	453	453	456	459	462	461	460
26 q	459	457	454	457	463	464	464	465	463	460	457	456	456	460	462	463	464	464	463	464	467	467	464	463	461
27	463	462	463	464	465	468	468	468	469	476	472	467	472	473	476	476	476	467	458	474	472	428	451	447	466
28	443	440	462	451	452	462	466	458	454	453	453	453	453	456	458	454	460	462	463	462	458	457	453	461	456
29	460	462	461	461	461	461	463	464	463	463	458	455	457	457	458	461	463	465	464	463	458	463	451	441	460
30	454	451	454	455	460	464	463	464	461	459	461	461	463	459	464	467	463	461	461	455	459	472	457	461	460
31	464	464	458	460	461	460	463	464	461	464	464	460	457	458	462	464	464	464	464	465	463	464	469	469	463
Mean	445	425	443	445	450	455	458	461	462	463	460	458	459	460	459	459	460	461	459	459	459	457	455	455	455

MAGNETIC DECLINATION (WEST)

Mean values for periods of sixty minutes ending at exact hours, G.M.T.

JANUARY 1955

		Hour G.M.T.																								
		0-1	1-2	2-3	3-4	4-5	5-6	6-7	7-8	8-9	9-10	10-11	11-12	12-13	13-14	14-15	15-16	16-17	17-18	18-19	19-20	20-21	21-22	22-23	23-24	Mean
1		10.3	9.4	8.7	10.0	10.5	11.3	11.3	12.2	13.1	14.5	15.9	16.1	14.6	13.6	13.9	14.3	15.1	14.7	14.6	11.2	9.4	11.6	9.7	10.1	12.3
2		11.0	10.4	9.4	11.3	11.9	11.3	11.6	11.3	11.8	11.9	13.9	15.5	15.9	15.4	15.1	13.9	14.7	13.8	13.2	13.2	12.6	11.5	11.3	12.4	12.7
3		12.6	12.1	12.1	12.0	12.3	12.1	11.6	12.2	12.2	13.0	15.4	15.9	16.1	16.8	14.3	13.1	13.0	12.7	12.0	11.6	11.8	11.7	11.6	11.0	12.9
4		12.3	12.6	6.6	10.7	10.9	11.9	12.3	12.3	12.4	13.0	14.3	15.8	16.1	15.1	13.2	15.2	15.0	12.4	9.1	11.0	9.4	4.7	10.3	13.3	12.0
5		11.3	12.2	12.2	11.7	11.5	12.0	11.6	11.3	11.5	12.0	13.2	13.8	14.7	14.5	13.7	13.9	13.2	13.2	12.4	12.5	11.0	-2.3	8.3	9.3	11.6
6		11.0	11.2	10.9	9.5	5.6	7.1	10.7	11.0	11.6	12.3	13.2	14.3	14.7	15.2	14.4	14.2	13.7	13.5	13.1	6.9	8.5	9.2	10.5	10.1	11.3
7		10.6	11.4	10.4	8.5	10.6	11.3	11.4	11.3	11.2	11.5	13.2	14.4	16.3	16.8	14.9	15.5	15.4	16.4	14.2	13.0	10.7	10.3	11.0	10.9	12.5
8		11.6	12.0	11.3	11.0	11.3	11.3	11.0	11.0	10.6	11.1	11.9	13.2	14.5	14.2	14.4	15.5	14.2	14.1	11.3	10.3	12.7	10.3	10.1	7.5	11.9
9	d	-0.7	4.3	10.6	9.1	9.1	8.5	17.4	12.6	14.3	12.7	13.2	14.8	16.1	15.2	21.7	7.8	17.4	15.7	7.6	12.1	12.6	11.4	11.2	10.9	11.9
10	q	10.6	10.7	11.0	11.3	12.2	11.7	11.8	11.5	11.5	12.1	12.2	13.0	13.2	12.8	12.5	12.6	12.9	13.1	13.8	11.9	9.7	12.2	11.7	11.4	12.0
11		10.4	13.2	12.7	9.4	11.0	11.9	11.8	11.9	11.8	12.3	12.3	13.6	14.9	17.1	19.4	14.5	14.2	14.7	14.2	13.0	13.1	18.5	-6.1	-2.2	12.0
12		2.3	-5.3	6.5	8.8	10.4	11.1	11.3	10.7	11.5	11.5	11.8	12.4	12.9	12.9	12.6	12.6	12.7	12.8	12.7	12.5	12.8	12.1	11.9	11.4	10.5
13		12.0	10.4	6.8	9.8	10.7	8.4	12.1	12.7	12.1	13.8	14.2	13.6	13.0	14.2	14.8	11.3	13.2	13.9	12.0	11.9	8.8	8.7	9.4	10.4	11.6
14		11.0	11.5	11.4	11.4	11.5	11.5	11.4	11.6	12.0	12.2	13.0	13.8	14.2	14.1	12.9	15.1	16.0	13.3	1.2	11.4	10.5	10.4	10.4	11.2	11.8
15	q	11.3	11.1	11.4	12.0	11.5	11.9	12.0	11.9	12.0	12.4	12.4	12.6	12.6	12.4	12.1	12.3	12.3	12.0	11.4	11.1	11.0	10.9	11.1	10.8	11.8
16		11.3	10.5	11.2	10.6	10.8	11.9	11.7	11.9	12.3	13.1	14.5	15.6	16.3	16.2	16.4	17.4	16.2	15.2	14.1	12.0	9.1	7.2	10.6	11.4	12.8
17	d	11.1	11.2	11.0	13.0	11.3	10.4	10.6	10.7	11.9	13.9	12.1	10.3	16.8	23.4	23.8	23.0	14.1	11.8	12.6	11.3	10.6	11.3	13.0	9.1	13.3
18	d	5.8	-11.9	-29.7	0.8	1.0	0.6	2.7	7.5	7.9	8.4	9.8	10.4	11.9	13.2	13.7	13.0	11.9	1.4	9.4	2.2	1.9	4.3	6.7	10.9	4.7
19	d	8.8	15.4	9.3	14.9	20.8	21.7	35.9	24.8	15.3	6.7	16.5	14.0	12.9	12.6	18.9	12.7	12.2	-4.1	-3.0	2.2	2.1	0.4	6.8	1.2	11.6
20	d	4.2	6.1	-1.3	3.4	6.5	10.0	11.3	9.5	10.7	11.6	12.2	12.4	12.6	15.2	15.6	13.1	12.9	12.9	13.6	1.6	3.6	11.4	10.3	8.3	9.5
21		11.7	6.0	8.6	9.7	11.4	11.9	11.8	11.9	11.7	11.9	12.6	14.0	14.2	14.3	12.9	12.9	12.7	14.2	14.7	13.0	13.3	10.6	11.0	11.5	12.0
22		8.4	6.7	9.1	9.4	10.6	10.8	11.9	11.4	11.0	11.3	11.9	12.4	13.2	13.2	12.9	13.2	13.2	14.2	14.2	12.3	12.0	11.0	11.0	9.2	11.3
23		9.3	8.9	6.2	8.2	10.7	10.1	11.6	12.3	14.5	16.3	17.4	16.7	16.3	16.5	15.5	16.0	15.5	10.6	14.4	11.4	-4.7	0.6	3.0	7.7	11.0
24	q	10.2	10.5	12.2	11.6	11.8	11.3	11.3	11.6	11.2	11.0	11.3	12.4	12.9	13.8	14.2	14.2	12.7	14.4	13.2	12.3	11.0	10.6	9.5	11.2	11.9
25	q	12.7	11.6	11.9	11.5	11.3	11.8	11.9	11.2	11.2	12.0	12.6	13.7	14.6	14.5	14.2	13.3	12.7	12.6	13.4	13.2	11.3	10.9	10.6	10.6	12.3
26	q	10.6	11.1	10.9	11.7	11.3	11.7	11.5	11.3	11.3	11.3	12.0	13.1	13.4	13.6	12.5	11.9	12.2	12.6	12.4	12.3	11.9	11.4	11.3	11.3	11.9
27		11.1	11.3	11.5	11.9	11.6	11.3	11.6	11.5	11.7	12.7	13.2	13.7	14.7	15.0	15.4	14.7	15.4	18.7	16.4	14.6	5.1	-0.2	9.4	9.6	12.2
28		8.3	6.9	3.8	5.1	6.8	8.5	11.1	11.5	11.8	11.7	12.1	12.6	13.1	13.3	13.0	12.9	12.4	12.7	13.0	12.6	11.5	10.6	11.9	13.2	10.9
29		10.2	11.3	11.5	11.2	11.0	11.5	11.8	11.8	12.3	13.1	13.0	13.2	13.6	14.3	14.7	13.9	13.6	13.2	13.6	13.8	8.6	0.3	-2.8	5.8	11.0
30		10.7	12.3	12.2	10.1	10.6	10.7	11.1	11.5	11.5	12.2	12.8	13.8	14.7	15.2	15.0	14.9	14.6	13.1	14.7	14.0	11.7	6.5	8.9	9.4	12.2
31		9.4	10.6	10.1	10.4	8.9	10.4	10.6	11.1	11.6	12.7	12.8	13.0	13.0	13.2	13.2	13.2	13.2	12.7	10.6	12.3	12.0	10.6	5.7	8.4	11.2
Mean		9.7	9.2	8.4	10.0	10.6	10.9	12.2	11.8	11.9	12.1	13.1	13.7	14.3	14.8	14.9	13.9	13.8	12.6	11.9	11.1	9.5	8.7	9.0	9.5	11.6

TERRESTRIAL MAGNETIC FORCE: VERTICAL COMPONENT
Mean values for periods of sixty minutes ending at exact hours, G.M.T.

13

11 LERWICK (Z)												46,000γ (0.46 C.G.S. unit) +												JANUARY 1955											
	Hour G.M.T.																																		
	0-1	1-2	2-3	3-4	4-5	5-6	6-7	7-8	8-9	9-10	10-11	11-12	12-13	13-14	14-15	15-16	16-17	17-18	18-19	19-20	20-21	21-22	22-23	23-24	Mean										
	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ										
1	1139	1133	1136	1138	1139	1138	1138	1137	1138	1140	1137	1139	1138	1138	1140	1141	1143	1144	1145	1151	1154	1155	1160	1161	1143										
2	1162	1151	1147	1141	1141	1141	1142	1141	1141	1143	1141	1140	1140	1138	1137	1137	1141	1147	1148	1145	1145	1147	1153	1151	1144										
3	1152	1148	1144	1141	1140	1141	1141	1141	1140	1145	1147	1147	1145	1143	1143	1143	1141	1143	1143	1143	1142	1143	1141	1141	1143										
4	1131	1104	1129	1140	1138	1137	1136	1138	1140	1145	1147	1145	1142	1145	1148	1147	1147	1154	1152	1150	1153	1145	1143	1143	1142										
5	1145	1144	1143	1141	1140	1138	1138	1138	1140	1143	1144	1145	1144	1144	1143	1141	1141	1141	1141	1140	1144	1133	1139	1143	1141										
6	1143	1152	1153	1148	1140	1139	1137	1137	1138	1140	1142	1140	1141	1142	1143	1144	1146	1146	1147	1158	1149	1148	1144	1145	1144										
7	1147	1142	1130	1135	1137	1137	1135	1135	1137	1138	1139	1140	1140	1141	1148	1150	1151	1152	1166	1168	1161	1157	1150	1144	1145										
8	1138	1135	1137	1141	1141	1141	1141	1141	1141	1139	1140	1141	1143	1144	1146	1146	1146	1147	1151	1154	1153	1155	1152	1155	1145										
9 d	1131	1141	1140	1141	1137	1135	1126	1116	1121	1129	1137	1141	1143	1143	1152	1227	1188	1216	1199	1182	1156	1148	1144	1143	1151										
10 q	1143	1145	1145	1145	1145	1144	1141	1139	1138	1137	1138	1138	1141	1141	1144	1148	1151	1151	1150	1150	1145	1141	1140	1140	1143										
11	1139	1138	1121	1126	1138	1139	1141	1141	1138	1137	1137	1137	1144	1163	1166	1150	1145	1145	1148	1154	1150	1133	1082	1111	1138										
12	1132	1108	1134	1141	1143	1144	1144	1144	1142	1140	1138	1137	1137	1138	1140	1141	1143	1143	1143	1141	1141	1140	1140	1139	1139										
13	1134	1127	1130	1131	1130	1128	1130	1133	1134	1130	1135	1144	1145	1143	1150	1156	1155	1153	1152	1154	1157	1154	1148	1143	1141										
14	1141	1137	1137	1139	1139	1140	1140	1140	1140	1139	1139	1137	1137	1140	1149	1152	1159	1171	1179	1155	1152	1148	1148	1145	1146										
15 q	1145	1144	1143	1141	1140	1141	1142	1143	1141	1141	1141	1143	1143	1141	1141	1141	1142	1143	1145	1145	1145	1145	1145	1144	1143										
16	1144	1140	1141	1141	1141	1141	1141	1141	1142	1141	1140	1137	1137	1140	1143	1153	1151	1154	1156	1158	1158	1152	1149	1145	1145										
17 d	1147	1145	1143	1141	1135	1137	1137	1138	1133	1133	1133	1139	1141	1141	1255	1277	1189	1171	1168	1168	1168	1152	1157	1155	1158										
18 d	1084	1057	980	989	1012	1041	1100	1142	1160	1168	1167	1165	1161	1161	1164	1181	1193	1210	1176	1179	1150	1155	1152	1132	1128										
19 d	996	983	1007	949	936	981	994	1068	1158	1245	1240	1232	1234	1237	1214	1195	1176	1175	1176	1119	1104	1071	1007	1091	1108										
20 d	1083	1042	1050	1093	1117	1129	1141	1151	1152	1151	1153	1156	1155	1156	1162	1169	1156	1154	1156	1171	1168	1144	1112	1104	1134										
21	1069	1117	1138	1144	1144	1147	1144	1144	1146	1145	1148	1149	1150	1151	1152	1155	1155	1157	1161	1166	1152	1141	1162	1157	1146										
22	1130	1138	1150	1152	1151	1151	1148	1148	1147	1147	1147	1148	1151	1153	1155	1158	1157	1155	1154	1154	1154	1152	1152	1152	1150										
23	1152	1123	1120	1137	1144	1144	1144	1143	1140	1141	1143	1147	1150	1161	1161	1162	1164	1181	1176	1202	1188	1148	1141	1144	1152										
24 q	1146	1151	1152	1152	1151	1148	1148	1146	1147	1144	1143	1144	1147	1148	1152	1155	1159	1158	1158	1158	1159	1160	1158	1152	1151										
25 q	1144	1145	1148	1151	1152	1151	1151	1148	1145	1144	1147	1149	1151	1152	1154	1154	1155	1155	1159	1160	1159	1155	1152	1150	1151										
26 q	1151	1151	1152	1152	1151	1151	1150	1148	1147	1145	1145	1145	1145	1146	1149	1151	1152	1154	1152	1151	1148	1147	1147	1147	1149										
27	1147	1148	1148	1148	1148	1148	1148	1147	1144	1140	1141	1140	1137	1138	1141	1143	1147	1162	1214	1229	1246	1207	1172	1159	1160										
28	1126	1093	1093	1126	1139	1140	1142	1145	1148	1148	1150	1149	1147	1145	1147	1154	1157	1156	1155	1155	1158	1160	1150	1130	1142										
29	1137	1144	1147	1148	1148	1149	1149	1148	1147	1144	1145	1148	1145	1145	1147	1149	1151	1153	1155	1161	1164	1166	1140	1154	1149										
30	1148	1148	1148	1149	1150	1150	1150	1150	1151	1151	1148	1148	1147	1146	1145	1144	1150	1157	1160	1170	1171	1158	1160	1156	1152										
31	1148	1139	1139	1141	1144	1145	1146	1145	1147	1147	1148	1148	1148	1145	1145	1145	1147	1148	1149	1152	1151	1152	1153	1139	1131	1146									
Mean	1131	1126	1127	1129	1131	1133	1136	1139	1143	1146	1146	1147	1147	1149	1154	1158	1155	1158	1159	1159	1156	1149	1141	1142	1144										

DAILY EXTREMES OF TERRESTRIAL MAGNETIC ELEMENTS, MAGNETIC CHARACTER FIGURES AND TEMPERATURE IN MAGNET HOUSE

12 LERWICK												JANUARY 1955				
	TERRESTRIAL MAGNETIC ELEMENTS											3-hr. range indices K	Sum of K indices	Magnetic character of day (0-2)	Temperature in magnet house 200 + °A.	
	Horizontal force			Declination			Vertical force									
	Maximum 14,000γ +	Minimum 14,000γ +	Range	Maximum 10° +	Minimum 10° +	Range	Maximum 46,000γ +	Minimum 46,000γ +	Range							
	h. m. γ	γ h. m.	γ	h. m. γ	γ h. m.	γ	h. m. γ	γ h. m.	γ							
1	23 43	475	444 23 28	31	24 00 18.0	4.3 20 03	13.7	23 01 1169	1131 01 42	38	1,1,1,1,1,3,3	12	0	80.6		
2	14 16	476	438 00 04	38	00 01 18.2	7.1 01 53	11.1	00 12 1168	1135 14 17	33	3,0,1,1,0,1,0,2	8	0	80.5		
3	16 32	473	452 11 57	21	11 47 17.6	9.4 24 00	8.2	00 37 1152	1137 08 20	15	1,0,1,1,1,1,0,1	6	0	80.5		
4	00 49	479	429 01 54	50	12 06 17.2	2.5 21 28	14.7	17 49 1159	1100 01 03	59	3,2,1,1,2,2,2,3	16	1	80.2		
5	21 13	516	438 23 51	78	12 36 15.1	-11.3 21 10	26.4	20 58 1151	1121 21 19	30	0,0,1,0,0,1,3,4	9	0	80.3		
6	19 49	484	434 19 34	50	13 06 16.0	2.5 04 59	13.5	19 36 1172	1134 07 46	38	2,2,1,1,1,1,3,1	12	1	80.3		
7	13 48	472	436 18 43	36	13 10 17.7	7.6 02 56	10.1	19 02 1180	1126 02 34	54	2,1,1,1,2,1,2,1	11	0	80.2		
8	23 58	482	450 01 26	32	15 53 16.0	5.8 23 38	10.2	23 41 1161	1129 24 00	32	1,0,1,0,0,1,2,2	7	0	80.3		
9 d	00 38	485	419 15 24	66	14 49 24.7	-7.9 00 32	32.6	15 30 1269	1100 06 59	169	3,1,3,2,3,4,3,0	19	1	80.0		
10 q	18 44	468	450 16 46	18	18 57 14.4	8.3 20 08	6.1	17 15 1152	1135 08 59	17	0,0,1,1,1,1,2,0	6	0	80.0		
11	21 46	510	325 22 04	185	21 56 44.2	-18.4 22 49	62.6	14 05 1174	1040 21 58	134	2,1,0,1,3,1,1,6	15	1	79.8		
12	19 50	475	347 01 20	128	20 09 13.6	-21.7 01 28	35.3	06 55 1145	1089 01 08	56	4,2,1,1,0,0,0,1,0	9	1	79.0		
13	05 06	480	432 14 45	48	14 36 16.7	2.8 21 56	13.9	15 59 1160	1123 02 14	37	3,2,1,2,0,1,2,3	16	1	78.2		
14	18 31	479	429 18 12	50	16 04 17.4	-13.6 18 24	31.0	18 23 1202	1135 01 55	67	1,1,1,1,2,2,4,1	13	1	77.5		
15 q	09 44	467	455 15 08	12	11 04 13.0	10.6 23 59	2.4	00 30 1146	1139 04 12	7	0,0,0,1,1,0,0,1	3	0	76.4		
16	13 44	486	456 00 43	30	15 29 18.7	1.9 20 56	16.8	21 11 1161	1135 12 15	26	2,1,1,2,2,1,3,3	15	0	76.2		
17 d	22 46	535	255 23 59	280	14 30 38.7	-3.1 23 57	41.8	14 33 1343	1053 23 57	290	1,2,2,2,5,5,4,6	27	2	75.9		
18 d	17 47	517	-748 01 31	1265	01 34 19.7	-52.0 01 26	71.7	01 31 1334	913 02 35	421	9,6,4,2,2,5,4,3	35	2	76.9		
19 d	12 53	539	199 03 33	340	06 29 46.2	-14.9 19 08	61.1	12 59 1282	882 03 41	400	5,5,6,4,4,4,4,5	37	2	77.0		
20 d	19 49	476	341 02 16	135	23 59 19.3	-11.4 19 47	30.7	19 38 1186	1033 01 23	153	4,3,2,1,2,2,4,3	21	1	77.0		
21	20 34	486	434 23 53	52	00 00 19.7	5.0 01 08	14.7	19 24 1168	1054 00 20	114	4,1,1,0,0,1,3,3	13	0	77.0		
22	08 08	473	438 00 01	35	13 04 14.0	3.8 01 00	10.2	15 39 1159	1126 00 53	33	3,1,1,0,1,0,1,1	8	0	77.0		
23	01 18	492	436 21 20	56	14 12 18.9	-13.2 20 32	32.1	20 06 1213	1111 02 04	102	3,2,2,1,2,3,4,3	20	1	77.3		
24 q	17 00	468	447 00 01	21	17 12 15.1	7.8 22 55	7.3	21 52 1163	1143 10 40	20	1,1,0,0,1,1,1,2	7	0	78.6		
25 q	08 54	468	447 19 04	21	12 24 15.1	10.3 23 53	4.8	19 11 1163	1143 00 33	20	1,0,1,0,1,0,1,1	5	0	79.0		
26 q	20 29	468	453 02 57	15	13 02 14.0	10.4 00 04	3.6	02 57 1154	1143 09 10	11	0,0,0,0,0,1,0,0	1	0	79.2		
27	20 17	499	403 21 20	96	17 39 21.4	-3.3 21 41	24.7	20 10 1261	1135 12 35	126	0,0,1,1,1,3,4,3	13	1	79.3		
28	05 35	467	431 00 39	36	23 30 14.3	2.9 02 35	11.4	21 26 1162	1078 01 54	84	3,2,1,1,0,1,0,3	11	0	79.2		
29	21 48	486	433 23 10	53	14 35 15.0	-6.6 22 23	21.6	21 06 1178	1127 22 12	51	1,0,1,1,1,0,3,3	10	0	79.1		
30	21 18	490	449 01 16	41	12 42 17.1	1.3 21 41	15.8	20 47 1178	1143 15 53	35	1,1,0,1,2,1,2,3	11	0	79.1		
31	22 03	494	453 22 38	41	12 03 13.7	2.7 22 28	11.0	21 06 1157	1126 23 10	31	1,1,0,1,0,0,1,3	7	0	79.2		
Mean	- -	486	378 - -	108	- - 19.4	2.3 - -	21.6	- - 1188	1101 - -	87	-	-	0.52	79.7		

TERRESTRIAL MAGNETIC FORCE: HORIZONTAL COMPONENT
Mean values for periods of sixty minutes ending at exact hours, G.M.T.

13 LERWICK (H)													14,000γ (0.14 C.G.S. unit) +													FEBRUARY 1955													
	Hour G.M.T.																																						
	0-1	1-2	2-3	3-4	4-5	5-6	6-7	7-8	8-9	9-10	10-11	11-12	12-13	13-14	14-15	15-16	16-17	17-18	18-19	19-20	20-21	21-22	22-23	23-24	Mean														
	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ														
1 q	466	464	463	464	464	465	465	465	467	466	464	464	462	464	468	469	467	466	466	461	461	457	457	457	457	464													
2 q	457	457	456	458	461	466	469	474	467	464	462	460	457	456	453	443	445	449	458	462	458	450	454	458	458														
3	468	453	464	450	467	472	468	467	460	464	468	465	461	462	462	461	458	459	460	461	460	463	461	461	462														
4 d	461	457	454	461	464	463	473	473	477	472	448	435	450	456	456	457	460	453	460	461	450	402	420	447	455														
5 d	445	437	443	447	454	456	456	467	466	464	461	450	434	448	453	450	451	455	438	435	453	469	463	435	451														
6	451	456	456	460	453	464	465	461	461	459	463	460	453	459	455	441	447	461	461	466	458	452	443	435	456														
7	435	450	439	438	443	464	465	464	465	468	466	459	455	448	440	450	457	459	457	450	453	458	460	461	454														
8	460	456	456	454	456	461	463	464	466	464	457	458	456	456	459	457	443	443	447	452	458	468	462	455	457														
9	457	458	457	454	459	457	457	469	474	475	473	457	462	462	463	464	470	470	449	446	451	454	456	460	461														
10 q	458	454	448	450	453	453	456	453	461	460	458	457	454	455	463	463	461	463	461	460	462	467	465	464	458														
11	461	460	459	461	463	466	463	462	464	467	463	461	458	468	473	464	454	457	460	509	429	465	461	428	461														
12	442	451	447	441	444	449	460	460	462	456	450	451	452	455	460	465	464	460	461	455	457	482	457	454	456														
13	447	398	436	458	459	461	461	465	463	451	445	450	456	464	470	456	458	456	461	466	466	463	462	462	456														
14	461	457	455	457	457	455	464	469	461	453	457	457	460	450	456	462	468	449	456	463	460	443	452	457	457														
15	456	440	445	446	454	461	461	468	460	456	457	458	457	455	457	461	462	464	464	464	464	464	464	463	458														
16	461	461	461	461	463	464	466	468	469	464	458	462	469	472	461	453	460	465	454	457	454	461	464	464	462														
17	465	453	452	463	463	464	468	468	468	466	460	451	443	452	462	464	465	466	466	464	461	467	464	475	462														
18	468	464	461	456	468	470	475	473	470	464	460	453	454	458	462	464	466	470	469	455	450	457	449	438	461														
19 q	460	463	457	453	457	460	463	472	472	468	464	459	458	466	469	466	468	467	467	464	465	466	470	469	464														
20	470	467	470	470	472	471	472	475	472	471	467	466	467	473	468	460	459	466	462	461	463	467	465	464	467														
21	466	462	455	451	432	475	473	480	469	469	467	462	454	450	459	454	457	460	464	464	464	468	468	469	462														
22 d	473	445	447	432	458	472	468	470	467	453	445	431	443	450	458	467	465	467	468	461	464	479	464	466	459														
23 d	463	457	445	459	464	473	473	482	474	453	433	427	446	464	469	466	481	484	469	435	467	458	464	464	461														
24	463	466	461	461	461	464	464	469	461	464	458	457	461	468	457	457	458	458	462	473	480	475	468	472	464														
25	467	453	447	449	460	476	474	473	470	462	458	444	453	471	478	464	463	461	461	460	454	463	470	470	463														
26	453	442	461	457	461	458	461	464	461	456	453	458	461	460	463	464	464	464	464	463	465	466	464	464	460														
27 q	463	461	462	463	461	465	466	464	459	456	451	449	454	455	460	460	467	468	463	469	473	476	482	481	464														
28 d	479	480	393	287	354	436	449	458	457	455	437	432	445	456	486	470	451	454	458	459	457	458	457	457	443														
Mean	460	454	452	449	454	463	465	468	466	462	457	453	455	459	462	460	460	461	460	461	459	461	460	459	459														

MAGNETIC DECLINATION (WEST)
Mean values for periods of sixty minutes ending at exact hours, G.M.T.

14 LERWICK (D)													10° +													FEBRUARY 1955												
	Hour G.M.T.																																					
	0-1	1-2	2-3	3-4	4-5	5-6	6-7	7-8	8-9	9-10	10-11	11-12	12-13	13-14	14-15	15-16	16-17	17-18	18-19	19-20	20-21	21-22	22-23	23-24	Mean													
1 q	10.9	11.6	11.4	11.3	11.3	11.3	11.1	11.1	11.7	12.3	13.0	13.5	13.6	14.1	13.9	13.2	13.1	12.4	11.9	11.9	10.0	10.8	9.9	8.4	11.8													
2 q	9.0	9.4	10.4	10.4	11.3	11.3	11.2	11.6	11.7	12.8	13.8	14.7	15.3	15.7	15.0	14.3	14.0	14.1	12.8	12.1	11.9	8.5	8.8	8.6	12.0													
3	4.1	5.8	6.9	12.0	11.1	9.4	11.6	12.7	12.6	13.0	13.5	13.9	14.2	14.7	16.1	16.1	17.4	16.5	15.1	13.4	11.6	9.7	6.5	9.4	12.0													
4 d	9.7	10.1	9.0	8.7	8.0	8.8	9.1	10.6	12.0	14.4	14.4	19.4	17.7	15.8	15.3	14.3	17.6	14.3	12.7	10.4	-3.1	1.1	4.7	0.1	10.6													
5 d	7.6	12.8	5.5	8.3	9.0	9.5	11.9	11.3	11.3	10.6	12.1	13.4	15.3	15.9	15.8	15.5	15.4	12.7	4.1	6.5	10.6	7.4	8.4	3.1	10.6													
6	8.5	10.4	10.9	9.5	11.0	12.7	10.5	10.8	11.3	12.0	12.9	14.2	12.8	16.1	17.9	17.4	17.4	12.8	12.0	12.9	12.1	3.4	4.2	8.3	11.7													
7	7.5	6.7	5.6	7.2	12.1	10.0	11.1	11.4	12.3	13.5	13.8	14.4	15.3	16.3	12.6	12.0	13.3	13.5	11.3	8.4	8.9	9.4	9.5	9.1	11.1													
8	12.3	10.7	10.1	9.4	11.3	10.6	11.2	11.4	12.0	12.3	12.3	13.5	14.2	12.5	12.5	13.2	-3.1	8.6	11.3	8.0	3.2	4.7	7.6	8.2	9.9													
9	9.8	11.3	9.7	9.7	6.1	6.6	7.6	10.9	12.0	13.1	13.9	13.8	13.6	13.2	12.5	11.7	10.2	13.8	10.2	8.9	10.7	10.7	9.6	10.1	10.9													
10 q	10.9	10.2	9.1	8.6	8.1	9.4	9.8	10.1	11.8	14.3	14.2	15.2	14.1	13.0	12.2	11.1	10.9	11.1	11.3	9.4	10.0	8.5	9.1	10.9	11.0													
11	10.4	10.5	10.4	9.9	10.2	10.3	10.5	11.0	11.7	12.9	13.1	14.6	14.8	16.4	17.5	16.8	14.9	7.7	9.8	14.3	0.0	4.8	11.1	11.0	11.4													
12	12.3	9.8	7.9	7.9	8.9	6.5	8.4	9.6	10.7	11.7	13.0	13.3	13.2	12.7	13.7	12.7	13.1	14.3	12.8	11.4	10.1	12.5	10.1	7.9	11.0													
13	7.9	13.6	7.4	4.4	7.1	9.0	10.3	11.3	12.1	12.1	15.2	15.2	15.2	14.8	15.2	13.0	11.1	13.7	12.1	8.3	7.9	11.1	11.0	10.6	11.2													
14	10.3	10.5	11.0	8.4	8.1	11.1	10.4	11.1	14.8	14.8	14.6	14.0	16.6	15.2	14.6	14.8	14.5	6.1	8.9	12.4	11.1	2.4	8.4	8.1	11.3													
15	6.8	1.4	3.2	5.9	5.6	8.5	7.5	8.8	10.4	10.9	11.6	12.6	13.7	13.7	13.2	12.2	11.8	11.9	11.8	11.5	11.0	10.7	10.4	10.3	9.8													
16	10.5	10.6	10.6	10.6	10.8	10.9	10.6	10.6	10.6	11.5	13.4	14.2	15.2	16.1	17.0	13.6	12.6	12.2	9.1	2.2	10.4	10.2	10.6	9.3	11.4													
17	4.6	4.8	9.8	6.1	5.9	8.3	9.5	9.9	10.5	11.0	11.1	13.0	14.6	13.2	13.0	12.3	11.8	11.7	12.1	11.9	11.7	10.6	9.8	7.0	10.2													
18	9.4	9.1	8.2	10.7	7.6	5.3	8.4	10.3	10.9	10.6	11.3	12.7	14.2	14.3	14.2	13.3	12.9	12.6	13.4	11.8	14.0	9.5	5.5	11.3	10.9													
19 q	8.2	11.3	9.2	8.1	9.1	9.0	11.1	11.3	11.2	11.8	13.0	14.2	15.2	16.1	15.9	12.4	12.3	12.0	12.2	11.3	10.6	10.3	7.5	9.7	11.4													
20	11.1	11.3	11.7	13.2	10.1	7.9	8.4	9.1	10.6	12.0	13.3	13.2	15.2	17.1	17.8	17.5	12.7	13.1	10.9	3.1	10.4	11.0	10.1	9.4	11.7													
21	13.0	6.5	3.4	4.7	9.5	5.4	7.9	10.4	10.2	10.6	12.3	13.6	14.7	16.5	15.4	13.5	12.9	13.0	12.3	9.1	8.4	10.8	10.6	8.8	10.6													
22 d	7.5	6.9	7.2	7.9	2.7	4.6	7.6	10.1	11.5	13.1	13.2	14.6	16.2	15.2	14.3	11.9	9.9	10.7	11.3	9.0	4.6	10.5	9.4	10.0	10.0													
23 d	10.4	13.8	16.1	11.4	9.3	8.8	10.4	13.0	14.2	13.1	13.2	16.6	18.5	20.0	15.1	19.8	15.3	4.5	3.9	-1.3	7.6	11.3	10.7	8.4	11.8													
24	8.7	9.5	6.8	6.5	9.1	10.6	10.4	11.7	12.3	12.8	13.1	13.5	14.7	17.2	17.3	17.0	17.2	15.7	14.2	9.0	6.6	9.4	8.8	9.3	11.7													
25	13.2	11.2	11.8	6.6	8.7	3.6	7.8	9.4	11.3	11.2	12.0	15.2	18.0	17.2	21.0	18.2	13.1	15.2	14.2	11.9	11.0	10.9	8.6	6.9	12.0													
26	6.0	6.6	5.9	7.3	7.4	6.1	9.3	9.7	10.4	11.6	12.9	15.1	16.4	15.9	15.7	13.7	12.2	11.2	10.9	9.4	10.8	9.9	10.3	10.3	10.6													
27 q	10.3	10.3	10.4	10.5	10.7	10.7	10.2	10.2	9.5	10.4	11.3	13.6	15.2	15.4	15.4	13.0	12.3	12.2	9.1	9.1	11.9	11.7	10.8	9.7	11.4													
28 d	11.3	5.3	4.6	10.4	14.2	-0.8	5.3	7.3	4.0	11.5	14.3	13.6	19.4	19.9	15.2	18.0	15.4	12.5	11.3	10.2	10.2	10.4	10.0		11.0													
Mean	9.4	9.4	8.7	8.8	9.1	8.4	9.6	10.6	11.3	12.2	13.1	14.2	15.3	15.5	15.2	14.4	13.0	12.1	11.2	9.5	9.1	9.0	9.0	8.7	11.1													

TERRESTRIAL MAGNETIC FORCE: HORIZONTAL COMPONENT
Mean values for periods of sixty minutes ending at exact hours, G.M.T.

17 LERWICK (H)		14,000γ (0·14 C.G.S. unit) +																						MARCH 1955							
	Hour G.M.T.																														
	0-1	1-2	2-3	3-4	4-5	5-6	6-7	7-8	8-9	9-10	10-11	11-12	12-13	13-14	14-15	15-16	16-17	17-18	18-19	19-20	20-21	21-22	22-23	23-24							
	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ		
1 q	457	456	457	461	461	459	461	461	459	455	452	453	453	456	461	465	461	459	456	457	455	458	457	461	458						
2 q	463	467	459	461	462	468	467	466	468	465	461	460	457	456	460	463	462	462	465	468	469	467	466	466	464						
3 q	466	464	463	462	467	465	472	470	469	464	459	457	458	461	463	466	466	467	469	469	469	469	469	467	465						
4 q	466	464	464	465	468	469	471	466	458	455	450	451	456	461	466	469	469	475	478	479	461	457	463	474	465						
5	456	455	455	458	463	469	467	466	462	453	453	452	458	457	462	466	455	469	461	463	463	449	427	441	457						
6	453	446	462	450	457	461	457	456	455	453	444	451	451	458	465	456	457	461	466	471	465	452	461	456	457						
7 d	447	375	438	455	461	475	459	470	458	450	456	450	449	457	471	470	473	520	459	466	443	439	443	452	456						
8	447	427	450	457	459	466	460	455	457	450	444	442	443	452	450	455	471	466	470	446	451	466	455	462	454						
9 d	470	455	455	450	460	464	453	465	458	443	430	436	441	457	466	488	483	531	547	607	548	493	460	461	476						
10	458	449	444	447	451	453	456	443	440	446	453	437	433	467	472	456	459	471	452	458	484	443	453	446	453						
11	404	451	447	452	456	460	440	452	449	445	444	453	428	443	451	462	457	465	456	461	466	471	468	466	452						
12	465	460	440	413	442	461	464	444	457	455	452	449	444	449	465	475	460	466	458	460	467	453	466	463	455						
13	462	455	457	462	457	457	451	456	456	451	448	446	451	453	469	456	465	465	464	457	472	444	451	452	457						
14	436	457	453	459	455	461	465	465	456	451	448	436	441	454	466	456	468	462	476	457	453	445	453	457	455						
15	456	460	446	405	465	473	461	433	442	436	445	448	450	448	458	467	463	472	474	465	477	452	460	458	455						
16	455	446	452	430	446	461	462	457	455	453	449	450	453	458	459	465	470	462	458	468	457	448	420	397	451						
17	421	459	460	467	468	470	452	435	452	456	452	450	449	451	449	458	463	465	471	472	473	474	469	469	459						
18	478	473	471	471	474	470	465	455	458	456	457	447	447	452	451	461	475	476	455	466	466	456	460	460	463						
19	458	459	463	459	459	459	459	462	455	453	450	447	447	451	455	462	469	471	469	467	466	470	466	467	460						
20	468	464	460	463	468	469	472	466	458	456	455	455	457	463	463	467	468	472	472	473	473	475	473	482	466						
21	458	457	463	466	469	469	470	469	462	454	454	455	455	459	467	465	469	476	477	483	478	465	470	476	466						
22 d	474	473	475	470	468	470	470	458	448	448	444	462	469	515	676	907	547	536	468	440	443	443	452	456	496						
23	454	457	460	460	462	465	469	461	456	452	450	447	450	464	458	473	493	480	510	557	528	472	450	453	470						
24	449	428	412	433	436	442	455	451	433	430	436	440	443	454	454	455	459	466	466	469	471	469	466	469	449						
25	465	463	462	460	459	461	462	459	450	442	432	436	443	451	454	469	462	469	466	476	470	459	468	469	459						
26	470	466	466	466	469	464	459	428	426	435	443	436	443	444	457	452	465	472	476	478	480	482	480	474	460						
27	469	470	466	468	468	469	469	468	456	454	447	430	439	444	456	460	456	472	473	472	476	475	474	480	463						
28	472	466	462	462	465	467	470	468	452	445	441	440	439	450	458	469	472	472	473	476	475	476	469	474	463						
29 q	469	465	465	469	473	477	471	470	462	451	443	441	441	450	458	466	470	470	471	475	475	475	475	476	465						
30 d	471	469	471	471	472	472	473	469	460	455	450	452	451	461	462	465	472	474	484	481	475	519	436	374	464						
31 d	406	385	232	421	436	449	436	340	410	426	435	421	455	465	488	521	503	488	492	484	459	480	458	449	439						
Mean	456	453	449	455	460	464	462	455	453	450	448	446	448	457	468	480	470	475	472	475	471	464	459	458	460						

MAGNETIC DECLINATION (WEST)
Mean values for periods of sixty minutes ending at exact hours, G.M.T.

18 LERWICK (D)		10° +																						MARCH 1955		
	Hour G.M.T.	0-1	1-2	2-3	3-4	4-5	5-6	6-7	7-8	8-9	9-10	10-11	11-12	12-13	13-14	14-15	15-16	16-17	17-18	18-19	19-20	20-21	21-22	22-23	23-24	Mean
1 q		10·1	10·0	11·3	11·2	9·8	9·6	9·5	9·4	9·2	10·1	12·0	14·7	16·1	15·0	13·6	12·8	11·5	11·1	9·6	9·6	9·4	8·6	8·9	6·7	10·8
2 q		8·2	10·2	9·4	7·3	7·7	7·8	8·8	9·4	10·1	11·8	12·7	13·8	14·1	14·2	14·2	14·0	13·0	12·9	12·3	11·9	11·5	10·9	10·6	9·5	11·1
3 q		10·4	10·6	10·2	10·6	10·1	11·3	10·4	10·0	10·3	10·6	12·3	14·2	14·9	14·9	14·1	13·0	12·3	11·9	11·8	11·5	11·5	10·9	11·0	10·6	11·6
4 q		10·2	10·4	10·4	10·6	10·4	10·3	9·9	9·7	9·9	10·6	11·0	12·9	14·9	15·4	14·7	13·4	12·4	12·3	12·6	13·7	10·9	10·0	10·7	7·9	11·5
5		6·1	6·2	4·6	5·8	6·5	6·5	8·1	8·8	8·6	9·6	12·3	14·2	16·4	17·2	16·4	16·9	14·4	12·0	12·0	10·6	10·6	3·0	3·6	1·5	9·7
6		4·8	5·1	7·9	6·9	8·7	8·6	10·6	9·8	9·6	10·7	11·0	13·2	13·9	16·9	17·1	15·2	13·3	12·5	11·3	13·5	7·6	10·6	9·4	8·4	10·7
7 d		10·6	10·8	-5·5	-2·5	3·4	5·9	9·4	10·9	15·2	12·0	10·9	13·0	14·2	14·7	15·2	16·2	14·6	5·0	8·1	9·0	4·1	-3·8	2·5	4·0	8·2
8		8·6	10·4	8·8	4·2	3·8	5·3	8·7	9·7	9·4	9·1	10·8	12·7	14·7	16·4	16·3	13·9	15·2	2·0	-10·6	3·4	8·9	9·0	12·8	6·1	8·7
9 d		8·2	8·4	5·9	6·5	6·4	7·0	11·0	10·6	9·1	11·5	15·4	18·8	20·5	23·3	25·3	22·4	22·2	20·0	-9·0	7·3	14·8	8·7	10·7	11·8	12·4
10		10·4	9·6	7·1	7·3	8·4	10·6	8·9	11·5	11·3	11·3	15·5	16·2	16·1	16·4	13·2	15·0	13·2	12·9	10·9	7·9	0·8	4·9	8·1	8·4	10·7
11		9·9	6·8	6·1	7·7	8·4	8·5	10·6	12·5	9·9	10·6	13·0	16·5	17·5	17·0	15·3	15·8	4·8	5·8	12·8	12·3	10·9	10·1	10·2	10·6	11·0
12		10·0	9·5	9·1	15·5	7·3	8·1	8·7	10·9	13·7	12·0	14·2	14·2	16·1	13·9	15·4	17·1	10·6	10·8	12·1	12·3	10·9	10·2	8·1	9·3	11·7
13		7·9	11·0	10·6	8·2	7·8	8·8	10·1	9·4	10·1	11·8	13·0	13·9	15·5	15·4	16·6	15·1	14·5	10·5	10·1	10·8	-0·2	4·0	8·9	6·9	10·4
14		19·6	6·0	5·6	7·1	7·2	9·9	8·9	9·1	8·9	10·4	12·3	14·2	15·5	16·1	17·0	12·1	10·6	10·6	-3·1	10·4	6·5	2·9	6·9	11·7	9·9
15		9·9	-0·2	3·3	9·6	4·1	5·0	10·7	14·8	19·3	16·1	15·7	12·1	16·4	15·9	14·1	14·0	12·7	12·5	12·1	10·9	9·6	9·6	12·5	9·6	11·3
16		8·2	8·1	4·6	2·1	10·2	8·7	9·2	9·4	9·2	10·7	11·3	12·7	14·2	14·4	14·9	14·1	13·9	10·6	12·3	10·6	3·8	-5·2	-1·8	-6·2	8·3
17		5·8	4·9	7·3	8·6	9·7	8·9	9·8	12·8	15·9	15·5	13·7	14·9	15·8	16·8	16·3	13·4	13·2	11·3	11·6	11·8	11·5	11·5	10·6	10·2	11·7
18		10·5	9·4	9·1	9·0	8·9	9·7	9·1	10·6	12·8	10·6	11·3	15·6	15·3	17·3	17·4	16·7	9·9	-5·5	13·7	9·8	5·6	5·8	9·2	8·5	10·4
19		10·6	8·9	6·3	6·5	8·0	8·9	9·6	8·8	8·6	9·3	10·0	11·8	14·4	15·4	15·4	14·6	13·0	12·5	11·5	10·6	4·8	7·8	10·6	10·9	10·4
20		10·8	11·8	9·9	8·4	8·4	8·2	8·6	8·4	9·4	9·9	12·3	14·5	15·2	16·3	14·6	12·5	10·9	10·8	10·9	10·8	11·3	11·5	10·6	10·6	10·7
21		-1·6	6·0	8·0	7·0	7·1	7·5	8·2	7·8	8·0	9·4	10·8	13·7	15·4	15·9	15·7	13·1	11·3	10·8	12·6	12·6	10·2	0·9	4·7	8·0	9·3
22 d		10·4	10·6	10·4	9·2	9·5	9·4	8·3	8·1	11·7	14·4	18·4	17·6	17·5	18·7	20·5	19·3	22·1	10·4	3·4	10·5	11·0	9·2	11·1	10·2	12·6
23		9·4	9·7	9·4	9·2	8·8	8·8	8·2	8·0	7·8	8·4	10·1	13·0	14·3	16·8	15·4	13·7	16·0	13·3	13·7	17·6	16·4	7·2	-18·6	4·1	9·8
24		9·3	8·8	8·1	-0·7	2·7	7·0	6·7	7·2	8·4	9·2	10·4	13·7	15·4	16·4	17·2	15·8	14·3	12·5	11·1	10·5	10·6	9·8	9·5	9·7	10·2
25		9·7	10·0	9·8	9·9	8·9	8·3	8·0	6·7	6·5	8·8	11·9	13·5	16·2	17·0	16·5	15·5	13·7	11·9	12·0	6·2	2·3	6·4	8·7	9·5	10·3
26		9·4	9·7	9·4	9·1	8·7	9·5	12·4	19·1	19·1	20·2	19·4	18·1	18·7	22·1	20·2	16·6	14·3	13·3	12·4	11·6	10·8	10·6	10·6	10·4	14·0
27		10·1	9·7	9·7	10·4	8·8	8·2	7·2	7·8	6·8	7·5	11·5	14·8	18·1	20·3	22·3	18·7	14·3	12·3	11·3	10·3	10·8	10·4	9·8	7·5	11·6
28		9·4	8·8	8·4	8·4	9·0	8·9	8·2	7·5	8·3	9·5	11·6	14·4	15·2	16·4	15·1	13·4	12·0	11·1	11·1	11·3	11·0	10·4	7·2	6·8	10·6
29 q		5·2	6·6	8·1	8·4	8·9	8·9	9·3	8·9	8·3	8·4	10·4	13·7	16·4	17·1	15·3	13·6	12·0	11·3	10·5	10·8	10·9	10·7	10·6	10·0	10·6
30 d		10·5	12·0	10·7	9·1	8·8	8·3	8·2	7·8	8·4	9·4	11·6	15·6	17·6	18·6	19·5	15·4	17·2	15·6	13·7	1·9	8·6	-2·5	-2·7	5·3	10·4
31 d		7·5	7·6	-4·1	-14·3	1·4	5·1	7·5	21·0	26·0	13·2	13·3	13·2	16·2	18·0	18·0	7·7	7·2	8·9	12·8	-0·2	10·1	4·1	10·0	7·6	9·1
Mean		9·0	8·6	7·4	7·0	7·7	8·3	9·1	10·2	11·0	11·1	12·6	14·4	15·9	16·8	16·5	14·9	13·2	10·8	9·7	10·0	8·7	6·2	8·3	7·8	10·6

TERRESTRIAL MAGNETIC FORCE: VERTICAL COMPONENT
Mean values for periods of sixty minutes ending at exact hours, G.M.T.

17

19 LERWICK (Z)		46,000γ (0.46 C.G.S. unit) +																						MARCH 1955				
	Hour G.M.T.	0-1	1-2	2-3	3-4	4-5	5-6	6-7	7-8	8-9	9-10	10-11	11-12	12-13	13-14	14-15	15-16	16-17	17-18	18-19	19-20	20-21	21-22	22-23	23-24	Mean		
		γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ		
1	q	1150	1149	1147	1147	1150	1152	1152	1152	1153	1152	1148	1144	1146	1148	1151	1152	1154	1156	1158	1159	1163	1158	1154	1146	1152		
2	q	1140	1131	1134	1140	1144	1143	1145	1146	1146	1146	1145	1146	1147	1146	1147	1150	1152	1152	1152	1151	1152	1152	1152	1152	1146		
3	q	1151	1150	1150	1148	1145	1145	1142	1145	1147	1147	1146	1144	1145	1145	1143	1144	1147	1147	1147	1147	1148	1150	1149	1149	1147		
4	q	1150	1150	1148	1145	1143	1143	1142	1145	1147	1147	1144	1143	1142	1143	1143	1144	1144	1143	1144	1147	1162	1172	1165	1147	1148		
5		1135	1125	1135	1141	1134	1128	1132	1137	1140	1145	1142	1142	1144	1148	1151	1158	1160	1158	1164	1160	1155	1141	1114	1129	1142		
6		1139	1140	1104	1127	1143	1143	1146	1146	1144	1147	1150	1150	1151	1151	1153	1161	1161	1157	1152	1158	1180	1178	1167	1164	1151		
7	d	1143	1059	1093	1100	1117	1111	1110	1110	1120	1129	1139	1143	1148	1148	1148	1158	1179	1209	1191	1182	1049	1105	1121	1141	1131		
8		1145	1104	1107	1137	1137	1125	1129	1140	1141	1146	1147	1150	1152	1158	1167	1167	1166	1193	1185	1164	1156	1147	1117	1111	1145		
9	d	1111	1123	1138	1143	1135	1134	1135	1134	1141	1141	1143	1145	1148	1157	1174	1223	1210	1268	1276	1246	1246	1261	1200	1175	1175		
10		1169	1165	1152	1147	1155	1154	1148	1152	1160	1154	1154	1162	1172	1174	1207	1188	1170	1166	1199	1205	1169	1159	1136	1111	1164		
11		1107	1106	1129	1147	1153	1148	1157	1141	1142	1144	1144	1144	1165	1161	1157	1166	1197	1188	1165	1158	1154	1149	1144	1150	1151		
12		1152	1152	1144	1082	1076	1119	1127	1135	1130	1137	1141	1143	1151	1162	1162	1165	1196	1208	1207	1205	1186	1119	1144	1152	1150		
13		1147	1148	1145	1150	1151	1152	1153	1152	1150	1148	1144	1144	1145	1148	1158	1169	1172	1190	1186	1184	1173	1156	1152	1150	1153		
14		1092	1084	1121	1138	1147	1147	1150	1152	1153	1154	1152	1152	1150	1151	1157	1169	1174	1182	1184	1172	1180	1174	1157	1148	1152		
15		1122	1110	1116	1073	1062	1099	1119	1126	1115	1127	1128	1139	1144	1152	1155	1156	1157	1155	1158	1171	1188	1188	1145	1123	1135		
16		1139	1125	1100	1123	1127	1140	1147	1152	1155	1152	1154	1150	1149	1146	1149	1150	1161	1179	1168	1164	1168	1140	1112	1086	1143		
17		1069	1097	1131	1139	1142	1140	1138	1128	1116	1120	1132	1148	1155	1152	1167	1177	1165	1159	1152	1150	1150	1150	1152	1154	1141		
18		1148	1151	1151	1150	1147	1145	1145	1147	1145	1143	1143	1145	1154	1154	1157	1165	1186	1233	1205	1205	1164	1165	1159	1157	1161		
19		1149	1117	1129	1139	1143	1144	1147	1147	1152	1148	1145	1144	1144	1145	1148	1149	1152	1158	1159	1161	1161	1149	1149	1151	1147		
20		1150	1145	1142	1144	1144	1145	1144	1147	1147	1142	1139	1138	1141	1144	1148	1147	1150	1149	1148	1149	1148	1148	1150	1126	1145		
21		1109	1126	1135	1141	1141	1141	1140	1140	1141	1140	1140	1138	1139	1143	1146	1149	1151	1150	1147	1144	1151	1154	1118	1126	1140		
22	d	1141	1147	1148	1151	1149	1145	1144	1144	1137	1127	1127	1141	1185	1254	1336	1300	1318	1322	1289	1211	1173	1155	1148	1147	1189		
23		1156	1158	1159	1159	1158	1154	1151	1155	1154	1153	1150	1149	1146	1147	1158	1155	1166	1203	1246	1307	1275	1177	1153	1157	1173		
24		1152	1095	1057	1078	1114	1117	1137	1147	1153	1157	1151	1152	1159	1166	1169	1167	1165	1165	1164	1159	1156	1156	1158	1151	1144		
25		1152	1155	1158	1159	1158	1158	1156	1155	1152	1150	1151	1148	1147	1149	1155	1160	1176	1182	1190	1188	1164	1152	1144	1144	1158		
26		1147	1152	1157	1158	1156	1156	1145	1144	1131	1124	1123	1132	1145	1158	1185	1188	1168	1157	1155	1152	1151	1147	1151	1154	1151		
27		1156	1154	1156	1154	1154	1151	1152	1151	1151	1145	1141	1152	1145	1144	1152	1161	1162	1164	1165	1164	1157	1155	1152	1140	1153		
28		1142	1147	1152	1154	1154	1155	1155	1155	1155	1151	1147	1145	1143	1144	1147	1151	1155	1157	1156	1154	1155	1152	1155	1135	1151		
29	q	1135	1141	1146	1148	1149	1150	1152	1152	1152	1152	1148	1141	1137	1137	1143	1147	1152	1155	1156	1153	1152	1152	1151	1147	1148		
30	d	1147	1144	1141	1147	1148	1150	1152	1152	1152	1148	1144	1133	1130	1133	1143	1155	1159	1165	1172	1220	1176	1088	1054	1018	1140		
31	d	1038	1029	903	939	1051	1088	1109	1116	1082	1129	1170	1168	1168	1181	1193	1236	1233	1224	1211	1138	1152	1127	1093	1117	1121		
Mean		1135	1128	1127	1131	1136	1139	1142	1143	1142	1143	1144	1146	1150	1154	1164	1169	1173	1180	1179	1175	1165	1154	1142	1137	1150		

DAILY EXTREMES OF TERRESTRIAL MAGNETIC ELEMENTS, MAGNETIC CHARACTER FIGURES AND TEMPERATURE IN MAGNET HOUSE

20 LERWICK		MARCH 1955																		
TERRESTRIAL MAGNETIC ELEMENTS														3-hr. range indices K	Sum of K indices	Magnetic character of day (0-2)	Temperature in magnet house 200 + °A.			
Horizontal force						Declination			Vertical force											
Maximum 14,000γ +			Minimum 14,000γ +			Range	Maximum 10° +		Minimum 10° +		Range	Maximum 46,000γ +						Minimum 46,000γ +		Range
	h. m.	γ	γ	h. m.	γ	h. m.	γ	h. m.	γ	h. m.	γ	h. m.	γ	γ	h. m.	γ				
1 q	15 27	469	448	10 57	21	12 47	16.6	5.8	23 40	10.8	20 20	1164	1141	24 00	23	1,1,1,1,1,2,1,1	9	0	77.8	
2 q	01 02	479	454	13 20	25	14 20	14.7	6.0	00 00	8.7	19 00	1155	1129	02 00	26	2,1,2,1,2,1,0,1	10	0	78.0	
3 q	07 57	477	453	11 34	24	13 07	15.4	8.7	07 45	6.7	00 00	1152	1141	06 09	11	0,1,1,1,1,1,0,1	6	0	77.8	
4 q	23 47	485	448	11 00	37	13 33	15.5	3.0	24 00	12.5	21 37	1177	1134	23 54	43	0,0,1,1,1,1,2,2	8	0	78.0	
5	17 28	476	402	22 22	74	13 02	18.5	-6.9	21 10	25.4	21 17	1170	1093	22 07	77	2,1,1,1,2,2,3,4	16	1	77.7	
6	20 17	482	438	10 39	44	13 28	20.0	2.1	20 32	17.9	21 08	1190	1087	02 34	103	3,3,2,1,2,1,3,2	17	1	77.7	
7 d	20 06	732	316	20 30	416	20 28	40.9	-15.6	17 41	56.5	17 36	1271	940	20 27	331	5,3,2,2,1,5,6,4	28	1	78.0	
8	18 02	495	416	01 49	79	14 39	17.7	-20.4	17 54	38.1	17 47	1216	1073	01 48	143	3,2,2,1,2,5,4,3	22	1	78.0	
9 d	19 54	738	425	10 40	313	20 09	32.7	-25.9	18 17	58.6	17 58	1373	1107	00 50	266	3,2,2,2,3,5,6,4	27	1	78.0	
10	20 18	503	418	11 58	85	13 41	19.2	-6.2	20 13	25.4	14 20	1221	1095	23 07	126	2,2,2,3,3,3,4,4	23	1	78.0	
11	16 57	479	358	00 31	121	12 19	19.6	-5.0	16 50	24.6	16 47	1207	1089	00 33	118	4,2,2,2,2,4,1,1	18	1	78.1	
12	16 56	491	401	03 36	90	21 00	24.3	-0.4	16 50	24.7	17 22	1215	1061	03 48	154	3,3,2,2,2,4,4,4	24	1	78.3	
13	20 29	512	433	21 33	79	12 40	17.8	-17.5	20 24	35.3	17 30	1202	1141	02 20	61	2,2,2,2,2,3,4,3	20	1	78.5	
14	18 12	501	422	00 08	79	00 22	25.8	-17.6	18 10	43.4	17 56	1211	1059	00 50	152	4,2,1,2,2,4,4,3	22	1	78.6	
15	20 46	502	392	03 36	110	21 00	22.0	-1.8	01 43	23.8	21 07	1218	1039	03 49	179	3,4,3,3,2,2,3,4	24	1	78.5	
16	16 16	478	371	23 53	107	14 00	15.4	-10.8	23 30	26.2	17 28	1183	1078	23 53	105	3,3,1,1,1,2,4,4	19	1	78.6	
17	21 09	488	392	00 08	96	09 07	18.0	1.4	00 00	16.6	15 28	1180	1061	00 48	119	4,1,3,3,2,2,1,2	18	1	78.0	
18	20 21	511	425	20 56	86	13 58	19.4	-16.6	17 05	36.0	17 22	1241	1132	20 33	109	1,1,2,2,2,5,4,2	19	1	77.8	
19	17 02	477	444	12 01	33	14 04	15.8	0.3	20 34	15.5	20 18	1166	1113	01 19	53	3,1,1,1,1,1,3,2	13	0	77.9	
20	23 20	494	451	11 00	43	13 40	17.3	-5.2	24 00	22.5	23 01	1152	1108	24 00	44	2,1,1,1,2,1,0,3	11	0	77.4	
21	19 32	487	447	00 58	40	14 01	17.5	-5.8	21 04	23.3	21 27	1168	1104	00 08	64	3,1,1,1,2,1,3,3	15	0	77.5	
22 d	15 28	1084	424	10 14	660	15 30	51.6	-22.0	15 23	73.6	16 05	1405	1120	10 14	285	1,1,2,3,7,7,5,2	28	2	77.6	
23	21 00	661	434	22 53	227	19 07	21.8	-30.6	21 22	52.4	19 37	1341	1141	21 54	200	1,0,1,1,3,3,5,5	19	1	77.7	
24	19 02	473	394	02 24	79	14 25	18.9	-3.1	03 48	22.0	14 52	1171	1044	02 25	127	4,3,2,2,2,1,1,1	16	1	77.7	
25	19 33	496	424	10 29	72	13 43	17.6	-3.8	19 31	21.4	19 28	1210	1141	23 30	69	1,0,1,1,1,2,3,2	11	0	77.7	
26	21 55	491	423	08 20	68	14 00	25.5	8.2	04 46	17.3	14 53	1196	1116	11 01	80	1,1,3,2,3,3,1,2	16	0	77.6	
27	23 16	492	416	11 03	76	14 24	25.1	5.1	08 49	20.0	18 32	1169	1134	23 31	35	1,1,1,3,2,2,1,2	13	0	77.7	
28	19 24	480	435	12 37	45	13 25	17.3	3.4	23 54	13.9	16 50	1159	1130	23 31	29	1,0,1,1,1,1,0,2	7	0	77.7	
29 q	05 09	479	438	12 04	41	13 42	17.3	3.6	00 00	13.7	18 14	1158	1131	00 00	27	1,0,0,0,1,0,0,0	2	0	77.4	
30 d	21 17	597	324	23 33	273	14 34	21.9	-32.4	21 14	54.3	19 38	1242	966	23 31	276	1,0,0,3,2,2,4,6	18	1	77.4	
31 d	18 45	592	123	02 28	469	08 07	35.1	-30.6	02 57	65.7	18 44	1289	854	02 27	435	6,5,5,4,3,4,5,4	36	2	78.0	
Mean	-	-	536	406	-	129	-	21.8	-7.4	-	29.3	-	1212	1087	-	125	-	-	0.68	77.9

TERRESTRIAL MAGNETIC FORCE: HORIZONTAL COMPONENT
Mean values for periods of sixty minutes ending at exact hours, G.M.T.

21 LERWICK (H)		14,000γ (0.14 C.G.S. unit) +																						APRIL 1955				
	Hour G.M.T.	0-1	1-2	2-3	3-4	4-5	5-6	6-7	7-8	8-9	9-10	10-11	11-12	12-13	13-14	14-15	15-16	16-17	17-18	18-19	19-20	20-21	21-22	22-23	23-24	Mean		
		γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ		
1		434	437	437	430	447	442	449	446	444	434	427	428	442	457	469	465	463	466	471	469	475	477	428	424	448		
2		454	456	454	458	450	455	465	450	446	436	430	438	458	471	502	516	523	519	490	458	459	427	465	463	464		
3		464	454	440	455	459	455	450	458	455	445	425	442	450	462	467	473	473	473	467	464	469	465	455	469	458		
4		466	462	460	464	463	460	460	460	455	442	428	436	444	457	463	460	473	495	479	468	465	472	467	476	461		
5 d		426	406	429	465	466	466	447	455	447	436	432	442	451	455	456	471	472	470	477	493	478	470	466	466	456		
6		473	436	440	455	457	456	465	456	450	445	441	421	435	446	458	455	465	465	472	476	484	492	458	414	455		
7 d		434	418	411	419	463	468	466	448	444	440	419	433	448	463	466	461	459	474	485	493	470	468	459	449	452		
8		477	469	469	467	467	456	448	467	459	448	437	433	444	451	459	463	473	478	473	476	473	461	470	474	462		
9		470	469	468	468	464	463	467	466	457	448	441	440	446	457	464	469	475	476	473	477	479	479	485	467	465		
10		466	469	468	468	469	470	472	470	464	457	444	438	441	437	470	468	470	464	476	470	464	464	462	459	463		
11		466	463	467	448	438	458	457	463	460	459	451	452	453	466	464	473	470	478	471	472	473	474	470	472	463		
12		473	470	460	460	461	471	472	468	463	451	443	443	437	464	463	466	474	471	485	474	473	442	433	445	461		
13		453	418	411	444	461	471	472	464	454	446	435	438	447	447	459	467	475	477	482	488	481	483	485	463	459		
14		473	468	467	468	469	466	463	465	456	453	448	441	447	451	448	459	466	472	474	476	476	476	477	473	464		
15		472	474	471	473	472	475	478	477	469	456	452	445	448	461	466	460	459	468	482	484	482	482	480	478	469		
16 q		475	471	470	470	471	477	478	474	464	457	451	451	457	458	456	463	471	478	492	493	480	478	479	474	470		
17 q		478	475	478	474	476	478	473	463	458	451	442	441	442	459	464	474	472	479	485	490	486	479	478	477	470		
18 q		474	471	470	469	470	470	469	464	459	451	450	451	459	463	464	477	481	476	478	482	479	476	475	476	469		
19 q		476	474	469	463	461	462	470	468	463	453	445	444	451	459	470	474	479	484	486	484	485	485	490	490	470		
20		489	486	483	482	477	467	463	464	457	445	438	443	451	464	458	468	464	479	482	475	469	474	472	471	468		
21		470	470	463	463	463	463	467	462	451	441	442	443	445	454	442	466	482	493	482	485	478	478	479	479	465		
22		475	474	460	454	446	471	466	456	451	444	439	436	438	445	459	469	472	481	484	486	487	480	481	477	464		
23 q		474	472	470	470	471	471	469	467	459	448	432	429	440	447	452	457	467	475	481	480	478	478	478	479	464		
24		476	475	472	472	475	477	477	470	457	452	449	452	461	465	430	476	488	541	586	491	424	361	415	463	467		
25		470	466	458	443	447	463	460	452	441	435	434	436	447	458	472	478	467	487	495	490	466	459	464	456	460		
26		472	442	446	453	454	458	456	444	427	436	438	428	442	450	460	459	474	473	496	495	477	455	429	393	452		
27 d		422	419	440	456	456	446	463	454	443	444	443	446	449	458	469	475	514	543	589	494	176	74	-135	14	394		
28 d		-217	283	418	373	382	400	403	418	424	429	435	455	467	447	466	454	474	494	518	511	463	349	422	361	401		
29 d		280	367	316	433	446	445	445	440	432	405	394	405	420	469	475	454	487	481	504	484	478	413	424	422	430		
30		377	360	431	458	454	433	448	450	441	433	441	432	444	448	451	465	456	470	478	483	480	470	461	456	447		
Mean		433	446	450	456	459	460	461	459	452	444	438	439	447	456	462	468	475	483	490	482	464	448	442	443	456		

MAGNETIC DECLINATION (WEST)
Mean values for periods of sixty minutes ending at exact hours, G.M.T.

22 LERWICK (D)		10° +																				APRIL 1955				
	Hour G.M.T.	0-1	1-2	2-3	3-4	4-5	5-6	6-7	7-8	8-9	9-10	10-11	11-12	12-13	13-14	14-15	15-16	16-17	17-18	18-19	19-20	20-21	21-22	22-23	23-24	Mean
1		11.7	11.6	9.7	8.4	5.0	7.0	8.2	7.1	8.1	10.1	12.2	16.5	15.6	14.7	12.3	11.8	10.7	10.4	9.6	10.1	9.4	-4.6	-3.9	1.9	8.9
2		10.6	6.5	4.4	4.7	6.0	7.7	7.6	9.5	9.6	9.7	11.3	13.2	19.7	21.2	20.2	20.4	19.3	17.4	11.5	9.4	8.2	8.2	3.5	9.4	11.2
3		9.5	8.3	7.5	7.5	8.9	7.5	7.1	7.9	6.7	9.4	11.0	14.4	13.2	20.0	21.9	21.4	17.3	16.4	12.6	11.5	9.5	12.5	11.6	10.8	11.9
4		10.1	9.1	10.6	8.4	8.4	7.9	9.5	9.5	8.4	9.3	12.3	15.9	15.8	15.8	15.1	13.9	13.3	14.2	5.7	1.7	9.3	11.1	3.6	0.5	10.0
5 d		-5.7	4.6	11.0	8.8	7.0	6.4	8.7	8.4	7.7	8.2	10.5	14.0	16.8	20.1	17.5	16.8	16.8	15.6	13.0	6.9	8.8	8.4	9.4	9.3	10.4
6		10.3	9.8	11.3	5.8	7.1	8.2	8.7	7.9	7.8	8.8	11.3	14.3	15.9	18.4	19.3	16.8	13.2	11.7	10.9	10.5	10.1	-4.8	-2.9	0.3	9.6
7 d		13.1	13.2	5.3	13.1	5.6	6.3	6.1	6.3	5.8	9.1	10.8	13.8	16.0	19.0	17.2	16.1	13.4	12.4	6.5	2.8	5.7	6.0	8.7	12.0	10.2
8		11.3	10.1	9.2	8.7	8.2	9.2	13.6	14.7	15.7	9.6	11.0	13.2	15.6	16.7	16.4	15.4	13.9	14.2	11.9	12.8	12.1	3.6	8.7	10.8	11.9
9		10.3	9.7	10.2	8.4	8.4	8.5	8.9	8.7	8.2	8.4	10.1	12.6	14.4	14.4	13.7	12.4	12.2	11.8	11.3	11.3	11.9	11.7	4.1	4.0	10.2
10		9.5	9.8	8.9	8.5	7.8	7.8	7.8	7.7	7.5	7.4	10.7	16.1	22.1	23.7	20.8	18.7	17.1	6.7	10.5	11.0	8.4	5.7	8.2	7.3	11.2
11		10.1	9.4	8.0	8.0	10.1	7.5	6.8	8.1	9.5	10.7	12.3	14.9	16.0	17.1	16.0	15.2	14.6	13.7	13.0	12.3	12.8	11.3	10.4	10.1	11.6
12		9.8	9.2	7.8	-0.2	1.7	5.4	8.2	8.4	8.7	8.7	11.4	14.9	15.5	13.3	12.9	11.7	11.3	10.6	11.7	11.6	11.2	-0.6	3.5	-1.7	8.5
13		1.1	2.7	0.4	-6.9	-0.1	6.6	6.6	8.0	8.2	9.7	12.0	14.4	17.1	17.6	15.6	13.9	13.9	13.5	12.6	12.7	12.3	12.6	10.7	13.9	9.5
14		8.4	7.4	8.1	8.4	8.4	11.7	13.6	14.2	14.2	10.4	11.2	14.1	15.4	14.9	14.3	13.9	13.2	12.9	12.0	11.6	10.8	10.1	8.0	8.4	11.5
15		9.6	9.2	10.2	8.7	8.3	8.4	8.3	6.8	7.5	8.3	9.9	13.0	15.5	16.7	16.1	16.4	14.2	12.3	12.0	12.3	11.7	11.0	9.4	9.0	11.0
16 q		8.7	9.1	9.3	8.8	9.0	8.7	8.7	7.9	7.0	7.7	10.2	13.9	12.7	17.8	16.6	14.0	13.2	12.3	12.0	11.2	9.3	9.1	10.2	9.9	10.7
17 q		9.7	10.1	9.1	7.8	7.5	7.2	6.5	7.8	8.7	9.9	12.3	15.5	17.5	16.1	14.3	13.5	12.8	12.8	12.3	12.8	12.3	11.3	10.9	10.3	11.2
18 q		9.9	9.1	8.6	8.4	8.3	8.2	7.9	7.0	7.2	7.5	9.4	11.3	15.2	16.3	14.3	13.0	11.0	11.6	12.4	12.0	11.5	10.9	10.4	10.4	10.5
19 q		10.1	9.3	8.2	7.8	8.5	8.6	7.9	7.2	7.9	9.2	11.0	13.2	15.0	15.0	14.0	13.5	13.2	13.3	13.0	11.8	11.5	11.5	10.6	10.3	10.9
20		9.5	8.1	7.5	7.7	7.0	6.1	6.0	8.2	6.9	7.5	10.0	12.7	16.2	18.0	16.0	15.2	13.0	13.2	12.3	11.2	9.5	10.4	9.4	8.4	10.4
21		8.5	8.2	8.4	7.9	6.4	7.5	6.7	6.8	8.8	9.1	9.4	13.2	16.8	18.4	16.1	15.2	14.7	13.8	12.8	11.3	10.0	9.4	11.3	9.4	10.8
22		9.4	9.3	13.0	10.4	10.4	5.7	4.6	4.2	4.1	7.2	10.7	13.3	15.5	16.5	15.5	13.8	12.8	12.3	10.6	7.8	4.5	8.1	8.2	9.6	9.9
23 q		9.4	9.3	8.5	8.1	7.5	6.5	6.0	5.7	6.3	7.8	9.2	11.8	14.2	14.9	13.2	12.3	11.3	10.8	10.3	9.7	10.0	10.4	10.1	9.7	9.7
24		10.0	10.3	7.8	7.5	6.6	6.0	5.9	5.6	6.2	6.9	9.4	12.8	17.3	20.3	19.7	18.4	18.9	19.0	17.8	7.5	1.3	9.0	4.1	-9.3	10.0
25		2.7	5.1	4.3	4.7	6.6	5.6	5.3	5.3	6.7	9.3	12.2	14.9	18.0	18.4	17.6	14.3	14.1	14.6	10.7	11.9	1.6	1.1	3.3	4.9	8.9
26		5.3	1.2	-3.4	0.5	0.5	4.1	8.8	11.6	11.9	11.4	12.7	14.9	15.8	16.9	15.9	14.2	12.8	11.1	12.2	10.0	5.5	2.9	1.6	1.4	8.3
27 d		-4.7	2.1	8.0	1.2	2.1	6.2	5.1	7.9	8.2	9.0	9.8	11.9	14.2	15.4	14.5	14.4	16.6	20.7	21.2	15.3	-24.8	-7.6	-20.9	-25.5	5.0
28 d		-29.0	-12.2	3.5	6.0	4.8	5.0	5.6	3.0	5.8	7.9	10.6	12.1	12.8	14.8	16.1	14.6	15.1	15.3	15.8	11.7	13.0	9.9	0.2	7.1	7.1
29 d		8.7	2.7	-4.4	2.7	3.6	3.1	5.9	6.2	4.6	7.8	6.9	11.5	14.6	15.1	12.3	12.8	14.6	10.6	3.9	11.8	9.6	-2.7	-1.1	2.8	6.8
30		4.1	3.1	8.2	2.9	4.8	5.2	7.5	7.8	7.2	8.8	11.0	11.2	12.3	15.2	14.7	13.4	12.3	11.5	10.6	4.8	3.4	8.4	9.6	9.4	8.6
Mean		6.7	7.2	7.3	6.4	6.5	7.0	7.6	7.8	8.0	8.8	10.8	13.7	15.8	17.1	16.0	14.9	14.0	13.2	11.8	10.3	8.0	6.8	5.7	5.8	9.0

TERRESTRIAL MAGNETIC FORCE: VERTICAL COMPONENT
Mean values for periods of sixty minutes ending at exact hours, G.M.T.

19

23	LERWICK (Z)												46,000γ (0.46 C.G.S. unit) +												APRIL 1955											
	Hour G.M.T.																																			
	0-1	1-2	2-3	3-4	4-5	5-6	6-7	7-8	8-9	9-10	10-11	11-12	12-13	13-14	14-15	15-16	16-17	17-18	18-19	19-20	20-21	21-22	22-23	23-24	Mean											
	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ										
1	1112	1102	1130	1138	1138	1136	1129	1150	1157	1158	1159	1161	1161	1156	1165	1165	1160	1158	1161	1159	1156	1108	1073	1090	1141											
2	1096	1115	1139	1148	1135	1129	1131	1133	1133	1141	1148	1144	1151	1170	1194	1220	1244	1270	1275	1225	1183	1123	1097	1135	1162											
3	1148	1145	1121	1129	1147	1144	1143	1140	1144	1147	1155	1149	1152	1163	1184	1203	1217	1199	1196	1187	1169	1151	1127	1135	1158											
4	1147	1152	1154	1149	1150	1144	1145	1150	1150	1152	1152	1148	1148	1157	1154	1152	1151	1170	1217	1208	1179	1166	1137	1075	1154											
5 d	1082	1070	1065	1116	1137	1138	1147	1148	1148	1152	1151	1149	1153	1166	1195	1179	1182	1182	1182	1157	1148	1154	1147	1139	1145											
6	1119	1112	1076	1095	1118	1137	1138	1147	1147	1148	1150	1157	1155	1152	1156	1166	1168	1160	1158	1160	1155	1137	1107	1062	1137											
7 d	1041	1049	1061	1055	1086	1119	1135	1145	1154	1154	1161	1157	1153	1160	1166	1170	1169	1166	1167	1155	1150	1147	1138	1104	1132											
8	1117	1147	1156	1158	1155	1154	1142	1132	1141	1145	1144	1146	1148	1153	1159	1166	1168	1174	1179	1168	1157	1149	1146	1149	1152											
9	1151	1152	1152	1147	1150	1151	1151	1151	1152	1150	1144	1141	1140	1143	1148	1152	1155	1157	1157	1154	1150	1150	1126	1131	1148											
10	1140	1148	1154	1155	1155	1153	1151	1151	1150	1147	1147	1144	1143	1166	1176	1179	1180	1197	1173	1161	1162	1161	1149	1130	1157											
11	1115	1141	1149	1150	1124	1125	1138	1140	1138	1138	1141	1141	1142	1150	1155	1156	1161	1166	1168	1166	1158	1155	1155	1152	1147											
12	1152	1147	1114	1098	1123	1127	1132	1137	1141	1149	1145	1143	1144	1145	1147	1152	1155	1161	1156	1166	1174	1172	1137	1121	1143											
13	1116	1086	1046	1073	1114	1135	1140	1143	1147	1144	1144	1139	1139	1144	1145	1147	1151	1158	1161	1162	1169	1173	1166	1108	1135											
14	1124	1152	1155	1153	1148	1140	1131	1130	1133	1141	1144	1147	1149	1151	1156	1152	1152	1152	1155	1155	1156	1157	1154	1154	1148											
15	1152	1148	1144	1144	1147	1148	1149	1150	1149	1148	1147	1144	1139	1138	1143	1150	1155	1156	1154	1155	1155	1155	1155	1151	1149											
16 q	1150	1152	1151	1150	1150	1148	1149	1150	1150	1147	1145	1144	1144	1151	1151	1147	1149	1151	1150	1156	1166	1161	1154	1155	1151											
17 q	1154	1152	1150	1152	1150	1148	1149	1150	1146	1145	1146	1146	1147	1147	1151	1153	1156	1152	1152	1150	1153	1155	1154	1154	1151											
18 q	1155	1155	1154	1153	1151	1151	1152	1151	1151	1151	1148	1144	1143	1147	1152	1154	1164	1166	1156	1150	1150	1151	1151	1150	1152											
19 q	1150	1151	1154	1152	1144	1138	1138	1141	1142	1144	1143	1137	1136	1143	1147	1145	1145	1144	1144	1147	1147	1147	1147	1148	1145											
20	1148	1150	1150	1148	1148	1148	1144	1141	1147	1150	1146	1140	1141	1148	1157	1162	1172	1167	1172	1170	1161	1155	1152	1152	1153											
21	1151	1148	1154	1152	1152	1147	1141	1139	1139	1141	1141	1138	1141	1154	1165	1158	1158	1160	1169	1166	1166	1155	1143	1136	1151											
22	1141	1146	1147	1126	1114	1112	1129	1138	1138	1140	1143	1144	1146	1147	1150	1152	1152	1153	1153	1152	1148	1143	1144	1147	1142											
23 q	1152	1154	1155	1157	1155	1154	1152	1151	1149	1146	1143	1140	1137	1143	1147	1150	1151	1151	1149	1149	1149	1147	1147	1147	1149											
24	1150	1145	1148	1151	1152	1149	1147	1145	1143	1138	1137	1132	1130	1147	1164	1158	1169	1195	1278	1241	1158	1045	1021	1032	1145											
25	1055	1120	1140	1151	1144	1151	1159	1160	1156	1151	1148	1150	1144	1147	1161	1171	1179	1175	1188	1138	1135	1139	1143	1135	1147											
26	1076	1057	1085	1121	1133	1137	1130	1128	1130	1129	1135	1155	1160	1152	1155	1157	1157	1164	1162	1181	1147	1128	1091	1019	1129											
27 d	1054	1076	1057	1100	1128	1127	1130	1135	1143	1144	1145	1144	1144	1151	1155	1151	1148	1170	1252	1274	1161	1268	1284	925	1144											
28 d	1068	955	1104	1107	1120	1133	1138	1152	1161	1170	1169	1176	1167	1155	1164	1173	1170	1182	1199	1211	1170	1021	1082	1076	1134											
29 d	1014	1009	1034	1106	1129	1147	1151	1159	1164	1176	1188	1182	1176	1182	1202	1182	1179	1203	1205	1186	1164	1082	1075	1103	1142											
30	1085	1052	1066	1116	1138	1144	1145	1147	1152	1154	1158	1176	1171	1162	1158	1157	1167	1162	1166	1178	1174	1168	1155	1094	1144											
Mean	1117	1116	1122	1132	1138	1140	1142	1144	1147	1148	1149	1149	1148	1153	1161	1163	1166	1171	1178	1173	1159	1144	1135	1114	1146											

DAILY EXTREMES OF TERRESTRIAL MAGNETIC ELEMENTS, MAGNETIC CHARACTER FIGURES AND TEMPERATURE IN MAGNET HOUSE

24 LERWICK												APRIL 1955											
	TERRESTRIAL MAGNETIC ELEMENTS											3-hr. range indices K	Sum of K indices	Magnetic character of day (0-2)	Temperature in magnet house 200 +								
	Horizontal force			Declination			Vertical force																
	Maximum 14,000γ +	Minimum 14,000γ +	Range	Maximum 10° +	Minimum 10° +	Range	Maximum 46,000γ +	Minimum 46,000γ +	Range														
	h. m.	γ	γ	h. m.	γ	h. m.	γ	h. m.	γ	γ	h. m.	γ											
1	21 24	562	411 23 57	151	12 12	17·8	-29·1	21 21	46·9	15 21	1168	1040 21 54	128	3,2,3,2,2,2,1,5	20	1	78·1						
2	16 30	542	367 21 37	175	13 35	25·2	-8·6	21 47	33·8	18 03	1292	1068 22 05	224	3,2,2,2,3,3,4,4	23	1	78·1						
3	16 48	486	417 10 34	69	14 38	24·1	5·9	08 37	18·2	16 27	1225	1113 02 45	112	3,2,2,2,3,3,2,2	19	1	78·2						
4	17 26	513	420 10 39	93	11 48	17·8	-11·0	23 03	28·8	18 50	1231	1058 23 38	173	1,1,1,2,2,3,4,4	18	1	78·5						
5 d	19 37	535	348 01 58	187	13 53	23·1	-9·0	00 35	32·1	14 27	1202	1033 01 54	169	4,3,2,2,3,2,3,2	21	1	78·4						
6	21 23	514	393 23 32	121	14 30	21·4	-8·6	21 20	30·0	16 32	1171	1023 24 00	148	3,3,1,2,3,2,1,4	19	1	78·4						
7 d	18 54	511	342 02 56	169	01 10	21·2	-3·4	18 50	24·6	18 48	1174	1021 00 03	153	4,4,2,2,2,2,3,3	22	1	82·0						
8	17 30	490	432 11 24	58	12 58	17·6	1·1	21 33	16·5	17 55	1185	1107 00 10	78	3,1,2,1,1,2,2,3	15	1	82·4						
9	22 13	518	438 10 51	80	13 37	14·7	-1·3	22 42	16·0	17 48	1159	1106 22 20	53	1,1,1,1,1,1,0,3	9	0	82·7						
10	14 42	493	419 13 04	74	12 50	26·0	1·7	17 36	24·3	17 27	1211	1115 24 00	96	2,0,0,2,3,3,2,3	15	1	82·7						
11	15 37	496	430 04 13	66	13 30	18·9	5·4	06 13	13·5	18 03	1172	1108 00 10	64	3,2,2,1,2,2,1,1	14	0	82·5						
12	18 44	496	418 22 08	78	12 29	16·4	-4·3	21 43	20·7	21 04	1181	1092 03 11	89	3,3,1,1,2,1,3,3	17	1	82·7						
13	22 48	505	381 01 49	124	23 20	18·9	-8·3	03 42	27·2	22 45	1181	1030 02 33	151	4,4,2,1,2,2,2,4	21	1	82·6						
14	22 43	480	433 11 52	47	12 15	16·5	5·9	01 43	10·6	14 27	1161	1107 00 00	54	3,2,1,2,2,1,0,1	12	0	82·6						
15	18 35	491	441 11 13	50	13 33	18·0	6·2	07 30	11·8	16 49	1160	1135 13 20	25	1,1,1,1,2,2,1,0	9	0	82·3						
16 q	19 27	499	449 11 29	50	13 03	18·3	6·8	08 48	11·5	20 50	1171	1143 11 01	28	0,0,1,0,2,2,2,1	8	0	82·6						
17 q	20 02	493	433 12 15	60	12 20	18·2	5·7	06 34	12·5	16 21	1158	1143 11 14	15	1,0,2,1,2,1,1,0	8	0	82·4						
18 q	16 32	496	447 10 40	49	13 23	16·7	6·6	07 24	10·1	16 58	1172	1141 12 29	31	1,0,0,1,1,2,1,0	6	0	82·2						
19 q	22 20	493	441 11 09	52	13 14	15·8	6·7	03 33	9·7	08 44	1155	1134 12 10	21	1,1,1,0,1,1,1,1	7	0	82·2						
20	19 03	496	437 10 13	59	13 28	18·8	3·3	06 01	15·5	16 40	1176	1138 07 30	38	1,2,2,1,2,2,2,1	13	0	82·4						
21	16 51	503	434 08 56	69	13 37	20·0	5·4	04 38	14·6	18 50	1171	1134 23 09	37	1,1,2,2,3,3,2,2	16	1	82·2						
22	20 12	510	428 11 09	82	13 18	17·1	1·7	19 54	15·4	19 06	1157	1106 05 17	51	2,2,2,1,1,1,3,1	13	1	81·7						
23 q	18 44	484	426 11 14	58	12 56	15·6	5·3	07 13	10·3	03 40	1157	1136 12 30	21	1,0,1,1,1,1,1,0	6	0	81·9						
24	18 16	665	302 21 17	363	18 22	27·1	-18·4	23 33	45·5	18 10	1306	976 21 12	330	1,1,1,1,4,5,6,5	24	1	81·7						
25	19 12	517	429 10 55	88	12 36	19·2	-3·4	20 16	22·6	18 17	1197	1024 00 00	173	4,2,2,1,2,2,4,2	19	1	81·7						
26	20 24	508	323 23 04	185	13 18	17·5	-7·9	02 16	25·4	19 43	1188	992 23 12	196	3,2,2,3,2,2,4,5	23	1	81·7						
27 d	19 37	650	-502 22 14	1152	19 40	78·5	-65·1	23 50	143·6	22 07	1642	835 23 17	807	3,3,2,2,1,4,8,8	31	2	81·8						
28 d	18 17	533	-481 00 06	1014	21 06	42·1	-64·3	00 04	106·4	00 43	1228	877 00 04	351	8,3,4,3,3,3,5,6	35	2	82·0						
29 d	20 44	536	146 00 50	390	00 46	18·0	-16·7	21 52	34·7	17 53	1221	969 00 57	252	6,4,2,2,4,3,4,4	29	1	82·3						
30	19 42	489	322 00 30	167	13 48	15·7	-4·8	01 49	20·5	11 42	1185	1039 01 17	146	5,3,2,3,2,2,3,3	23	1	82·2						
Mean	- -	501	327 - -	174	- -	21·9	-6·6	- -	28·4	- -	1205	1065 - -	140	-	-	0·73	81·4						

MAGNETIC DECLINATION (WEST)
Mean values for periods of sixty minutes ending at exact hours. G.M.T.

26	LERWICK (D)											10° +											MAY 1955				
	Hour G.M.T.																										
	0-1	1-2	2-3	3-4	4-5	5-6	6-7	7-8	8-9	9-10	10-11	11-12	12-13	13-14	14-15	15-16	16-17	17-18	18-19	19-20	20-21	21-22	22-23	23-24	Mean		
1	9.5	6.5	6.6	6.8	6.6	5.9	4.9	5.2	5.4	7.6	9.5	11.5	13.0	12.5	11.9	11.0	9.6	9.6	10.5	10.7	10.5	7.6	7.7	8.9	8.7		
2	8.3	7.9	7.4	6.6	6.4	6.1	4.9	4.2	5.4	7.6	11.0	10.7	16.5	14.8	13.8	11.5	11.5	11.7	11.1	11.4	10.7	8.2	7.2	5.9	9.2		
3	8.0	10.2	9.8	5.3	3.5	4.7	4.7	5.7	6.4	8.8	11.0	13.1	14.3	14.5	13.9	15.1	15.4	16.0	14.5	14.3	12.2	11.0	10.6	9.5	10.5		
4	8.9	8.5	7.9	7.8	6.9	6.9	7.2	7.4	8.5	9.1	11.3	14.6	16.9	15.7	15.1	13.9	11.8	12.1	11.7	10.5	8.5	8.3	6.1	8.8	10.2		
5	6.0	6.9	6.6	7.4	4.6	5.2	5.2	7.2	6.2	7.6	10.0	13.1	14.3	17.5	18.2	15.5	13.4	12.5	13.3	13.2	13.1	12.4	11.1	11.6	10.5		
6 d	6.3	1.3	2.4	4.2	3.2	1.1	3.7	4.7	3.7	7.0	9.4	16.8	16.7	19.1	20.2	17.7	16.2	13.1	14.1	10.7	11.5	7.9	7.9	-6.4	8.9		
7 d	-0.6	1.6	-5.9	1.4	-0.7	6.0	6.2	3.5	4.8	8.5	12.1	15.9	17.4	17.2	17.0	14.3	14.3	14.1	13.1	1.8	7.6	9.6	10.0	-1.6	7.8		
8 d	-5.8	6.6	8.0	9.3	5.3	8.7	4.2	5.2	4.7	6.1	9.7	13.6	13.8	13.8	17.7	19.1	15.5	16.7	14.1	6.0	8.5	2.3	1.9	10.5	9.0		
9	9.2	6.6	7.6	7.8	6.6	6.3	6.4	5.1	5.2	7.3	10.9	13.4	14.3	14.4	14.8	13.3	13.9	12.9	9.3	12.1	11.4	9.9	8.3	5.3	9.7		
10	10.9	6.9	9.5	8.5	8.2	7.1	5.9	4.9	5.5	6.6	9.0	11.5	13.6	14.3	13.7	12.7	11.8	11.5	11.1	11.8	10.1	7.3	6.6	8.3	9.5		
11	7.4	8.1	7.9	8.0	6.8	4.7	4.4	4.4	5.5	6.7	9.0	10.9	12.2	12.6	13.0	12.7	11.7	11.1	10.0	10.2	10.0	8.6	8.2	6.7	8.8		
12	8.3	7.7	7.7	6.0	5.8	7.0	5.2	3.5	4.2	5.9	9.1	12.5	14.3	15.6	16.8	16.6	15.3	15.0	13.6	11.7	7.8	6.4	5.5	4.4	9.4		
13	7.2	4.6	2.9	5.1	5.1	4.2	4.7	6.6	7.0	8.3	10.7	14.5	18.4	19.9	18.2	16.7	16.5	16.4	14.8	14.8	12.4	9.4	5.0	9.5	10.5		
14	11.4	9.3	6.0	5.6	7.6	8.3	10.1	11.4	8.0	8.3	12.0	14.6	15.5	16.2	16.0	13.9	14.0	13.7	11.4	10.3	9.0	10.3	8.5	9.5	10.9		
15	9.8	9.1	9.7	10.7	8.0	6.9	7.1	6.1	4.8	5.5	7.6	10.3	12.7	13.0	13.0	12.8	12.4	11.8	10.1	10.3	11.1	11.0	10.7	11.8	9.8		
16	13.7	3.4	0.9	10.2	7.7	5.5	3.5	3.7	5.1	7.3	10.0	12.8	14.5	15.0	14.8	14.5	13.3	11.1	9.5	10.0	10.1	9.6	9.6	10.0	9.4		
17 q	9.5	9.7	9.2	8.0	7.1	5.7	4.4	3.3	4.1	4.7	7.3	10.0	12.2	13.6	14.3	13.8	13.2	12.3	11.8	10.8							

TERRESTRIAL MAGNETIC FORCE: VERTICAL COMPONENT
Mean values for periods of sixty minutes ending at exact hours, G.M.T.

21

27 LERWICK (Z)		46,000γ (0.46 C.G.S. unit) +																				MAY 1955				
	Hour G.M.T.		2-3	3-4	4-5	5-6	6-7	7-8	8-9	9-10	10-11	11-12	12-13	13-14	14-15	15-16	16-17	17-18	18-19	19-20	20-21	21-22	22-23	23-24	Mean	
	0-1	1-2																								
	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	
1	1112	1119	1139	1148	1147	1145	1154	1157	1158	1160	1158	1155	1154	1153	1156	1158	1164	1166	1164	1162	1167	1155	1155	1157	1153	
2	1154	1158	1159	1161	1158	1158	1156	1155	1154	1152	1147	1144	1138	1145	1152	1167	1162	1160	1158	1156	1158	1165	1159	1151	1155	
3	1150	1151	1144	1151	1154	1151	1148	1150	1149	1144	1138	1137	1138	1143	1148	1149	1162	1168	1178	1174	1166	1158	1156	1155	1153	
4	1158	1158	1160	1160	1158	1158	1159	1157	1153	1153	1153	1148	1138	1147	1157	1172	1171	1161	1155	1159	1170	1145	1137	1111	1154	
5	1135	1152	1155	1148	1142	1146	1150	1150	1151	1152	1154	1152	1147	1147	1159	1180	1196	1178	1162	1157	1151	1148	1150	1147	1155	
6 d	1138	1143	1154	1159	1158	1155	1148	1145	1146	1150	1152	1143	1176	1237	1249	1208	1173	1166	1157	1162	1161	1144	1094	1045	1157	
7 d	1030	974	1016	1086	1102	1078	1100	1141	1148	1158	1154	1147	1141	1151	1168	1181	1168	1161	1162	1167	1157	1152	1116	1079	1122	
8 d	1085	1096	1072	1069	1059	1068	1106	1133	1148	1155	1150	1150	1183	1196	1164	1172	1208	1188	1199	1162	1154	1127	1084	1048	1132	
9	1093	1131	1145	1149	1145	1152	1152	1162	1159	1158	1153	1146	1141	1150	1154	1165	1163	1175	1178	1169	1161	1159	1154	1137	1152	
10	1102	1117	1139	1135	1143	1155	1161	1161	1158	1153	1156	1158	1150	1151	1155	1157	1158	1158	1161	1159	1174	1160	1162	1157	1152	
11	1156	1158	1157	1159	1155	1158	1162	1164	1161	1158	1158	1156	1154	1155	1158	1160	1161	1160	1164	1163	1162	1161	1161	1154	1159	
12	1155	1155	1157	1158	1160	1155	1159	1161	1159	1152	1146	1147	1147	1149	1151	1160	1169	1171	1180	1187	1183	1147	1090	1111	1155	
13	1103	1105	1135	1151	1156	1158	1158	1160	1158	1159	1149	1137	1133	1137	1138	1144	1148	1171	1180	1177	1165	1159	1154	1151	1149	
14	1135	1132	1147	1155	1148	1147	1144	1143	1148	1152	1161	1161	1158	1165	1164	1170	1164	1176	1189	1179	1176	1165	1155	1150	1158	
15	1148	1154	1151	1145	1147	1155	1157	1158	1154	1158	1157	1155	1156	1155	1152	1150	1152	1159	1166	1165	1162	1160	1157	1148	1155	
16	1097	1065	1052	1007	1031	1082	1130	1143	1151	1151	1154	1154	1157	1159	1161	1158	1157	1158	1162	1164	1161	1161	1161	1160	1131	
17 q	1155	1152	1150	1153	1155	1156	1158	1163	1163	1158	1154	1155	1155	1158	1158	1155	1155	1156	1158	1158	1157	1157	1156	1151	1156	
18	1138	1142	1151	1154	1153	1152	1156	1155	1152	1151	1148	1148	1147	1145	1146	1149	1151	1148	1151	1155	1152	1154	1154	1155	1150	
19 q	1158	1158	1158	1159	1158	1158	1158	1154	1151	1152	1150	1147	1145	1147	1152	1154	1152	1152	1154	1154	1157	1156	1154	1155	1154	
20	1156	1156	1157	1154	1148	1145	1141	1145	1144	1141	1136	1134	1135	1145	1148	1155	1157	1158	1152	1152	1152	1152	1152	1154	1149	
21 q	1158	1158	1158	1158	1158	1154	1152	1152	1150	1147	1143	1137	1137	1138	1149	1162	1166	1162	1157	1155	1152	1152	1152	1154	1153	
22	1156	1157	1158	1159	1158	1154	1152	1150	1146	1141	1143	1139	1138	1141	1150	1158	1159	1160	1156	1153	1152	1152	1152	1152	1151	
23 q	1155	1155	1156	1160	1160	1160	1158	1155	1149	1139	1132	1131	1135	1143	1150	1149	1151	1149	1152	1152	1151	1151	1151	1150	1150	
24 q	1152	1152	1153	1155	1153	1150	1152	1154	1152	1144	1137	1134	1135	1145	1151	1158	1162	1167	1160	1159	1159	1157	1152	1148	1152	
25 d	1150	1154	1154	1157	1158	1157	1158	1162	1164	1156	1148	1138	1137	1138	1134	1129	1131	1138	1140	1185	1168	1128	1158	982	1143	
26 d	1020	909	961	961	1026	1068	1133	1154	1175	1189	1171	1158	1155	1161	1182	1193	1189	1180	1179	1178	1172	1166	1157	1147	1124	
27	1127	1141	1153	1158	1163	1166	1166	1166	1164	1162	1158	1151	1151	1164	1161	1188	1210	1196	1187	1179	1151	1109	1047	1040	1152	
28	1071	1072	1083	1090	1115	1124	1127	1119	1143	1150	1154	1180	1196	1180	1188	1187	1176	1178	1179	1172	1164	1159	1147	1127	1145	
29	1123	1141	1155	1155	1152	1152	1154	1162	1168	1169	1168	1162	1158	1166	1171	1176	1182	1171	1169	1167	1162	1160	1162	1158	1161	
30	1162	1161	1162	1162	1163	1163	1164	1167	1166	1157	1152	1148	1151	1150	1153	1161	1167	1170	1164	1164	1170	1168	1160	1158	1161	
31	1149	1143	1140	1135	1144	1148	1154	1157	1155	1154	1152	1147	1144	1147	1152	1158	1155	1155	1159	1162	1160	1160	1152	1132	1151	
Mean	1128	1126	1133	1136	1140	1143	1149	1153	1155	1154	1151	1148	1149	1155	1159	1164	1166	1165	1166	1165	1162	1153	1144	1130	1150	

DAILY EXTREMES OF TERRESTRIAL MAGNETIC ELEMENTS, MAGNETIC CHARACTER FIGURES AND TEMPERATURE IN MAGNET HOUSE

28 LERWICK		TERRESTRIAL MAGNETIC ELEMENTS										3-hr. range indices K	Sum of K indices	Magnetic character of day (0-2)	Temperature in magnet house 200 + °A.	
Horizontal force					Declination			Vertical force								
Maximum 14,000γ +	Minimum 14,000γ +	Range	Maximum 10° +	Minimum 10° +	Range	Maximum 46,000γ +	Minimum 46,000γ +	Range								
h. m. γ	γ h. m.	γ	h. m. γ	γ h. m.	γ	h. m. γ	γ h. m.	γ								
1	21 24	497	432 11 07	65	12 39	13.8	4.1 08 10	9.7	21 10	1169	1103 00 00	66	3, 2, 1, 1, 1, 1, 1, 2	12	0	82.2
2	19 44	494	438 10 37	56	12 15	16.8	3.4 23 03	13.4	15 30	1170	1136 12 20	34	0, 1, 1, 1, 2, 2, 1, 2	10	0	82.8
3	15 50	504	445 09 24	59	17 47	16.5	2.9 04 44	13.6	18 48	1183	1136 10 40	47	2, 1, 1, 1, 1, 3, 1, 1	11	0	82.4
4	18 32	487	439 23 04	48	12 46	17.6	2.4 22 22	15.2	20 35	1178	1100 23 23	78	1, 1, 1, 2, 2, 2, 2, 3	14	1	82.5
5	14 54	512	430 12 09	82	14 29	19.1	3.6 04 23	15.5	16 12	1203	1126 00 00	77	2, 2, 1, 1, 3, 3, 1, 1	14	1	82.6
6 d	14 00	547	222 22 44	325	13 58	27.4	-15.5 23 42	42.9	14 27	1272	979 22 58	293	3, 2, 2, 3, 4, 3, 2, 6	25	1	82.9
7 d	19 37	528	323 00 25	205	12 53	18.5	-15.1 00 17	33.6	15 10	1186	955 01 51	231	5, 4, 4, 3, 2, 2, 3, 4	27	1	82.8
8 d	18 42	574	365 22 08	209	18 48	28.1	-10.2 00 06	38.3	18 23	1236	1036 23 01	200	4, 3, 4, 3, 3, 4, 4, 4	29	1	82.8
9	18 09	530	424 10 03	106	14 40	15.9	2.5 23 48	13.4	17 54	1187	1053 00 00	134	4, 1, 1, 2, 2, 3, 3, 2	18	1	82.9
10	21 30	510	418 11 28	92	00 12	15.9	1.3 22 03	14.6	20 52	1182	1082 00 30	100	3, 3, 2, 2, 1, 2, 2, 3	18	1	82.4
11	18 55	495	431 10 50	64	15 23	13.3	3.5 05 56	9.8	19 32	1165	1152 23 34	13	1, 1, 1, 1, 1, 1, 1, 2	9	0	82.0
12	18 16	506	433 09 54	73	14 56	17.2	1.2 21 41	16.0	20 04	1192	1084 22 29	108	0, 2, 1, 2, 1, 2, 2, 4	14	1	81.8
13	17 19	522	436 10 55	86	12 45	20.6	1.8 01 53	18.8	18 17	1191	1094 01 25	97	3, 1, 1, 2, 2, 2, 3, 2	16	1	82.0
14	17 18	511	418 11 15	93	13 01	17.9	3.5 05 10	14.4	18 17	1196	1128 01 19	68	2, 3, 2, 2, 2, 3, 2, 2	18	1	81.8
15	22 54	499	440 12 21	59	23 56	14.7	4.3 08 42	10.4	19 09	1169	1131 24 00	38	2, 2, 2, 1, 1, 2, 1, 2	13	0	81.6
16	02 08	501	320 03 33	181	00 16	16.6	-3.3 02 20	19.9	19 11	1166	957 03 41	209	4, 5, 3, 2, 1, 1, 1, 1	18	1	81.4
17 q	23 57	495	431 10 19	64	16 04	14.6	2.3 07 26	12.3	08 00	1165	1141 24 00	24	1, 1, 1, 1, 1, 1, 0, 2	8	0	81.8
18	20 42	496	440 10 11	56	13 35	14.8	3.1 07 52	11.7	04 13	1158	1134 00 17	24	1, 1, 1, 0, 2, 2, 1, 1	9	0	81.6
19 q	19 59	494	436 10 06	58	13 14	15.9	2.4 06 35	13.5	05 11	1161	1144 12 10	17	0, 1, 1, 1, 2, 1, 1, 1	8	0	81.5
20	18 42	510	431 11 16	79	13 31	14.9	3.6 07 54	11.3	16 19	1160	1131 12 08	29	1, 1, 1, 2, 1, 1, 2, 1	10	0	81.4
21 q	17 47	499	436 10 56	63	14 47	16.6	4.8 05 25	11.8	16 41	1168	1135 11 54	33	0, 0, 0, 1, 2, 2, 1, 1	7	0	81.2
22	18 04	501	435 11 10	66	14 57	14.6	1.9 06 50	12.7	16 54	1163	1137 11 56	26	1, 1, 1, 1, 1, 1, 2, 1	10	0	81.2
23 q	19 53	498	441 10 17	57	13 50	15.6	2.7 07 46	12.9	05 35	1161	1130 11 48	31	0, 0, 1, 1, 2, 2, 0, 0	6	0	81.3
24 q	18 56	499	445 10 23	54	14 58	18.0	4.1 06 08	13.9	17 18	1169	1132 12 03	37	0, 1, 1, 1, 1, 2, 1, 1	8	0	81.9
25 d	18 35	649	-339 23 27	988	18 36	26.0	-92.8 23 26	118.8	22 48	1250	831 23 26	419	0, 1, 1, 1, 3, 3, 5, 8	22	2	82.2
26 d	17 41	500	-378 00 09	878	00 21	37.0	-111.6 00 09	148.6	00 12	1293	728 00 58	565	8, 6, 4, 4, 3, 3, 2, 2	32	2	82.1
27	15 49	627	263 23 00	364	15 17	22.4	-10.0 19 34	32.4	16 28	1220	1009 23 12	211	2, 1, 1, 1, 4, 5, 4, 5	23	1	82.3
28	19 34	508	356 01 54	152	13 38	16.5	-3.5 01 06	20.0	12 00	1206	1055 00 07	151	4, 3, 4, 4, 3, 3, 2, 3	26	1	82.4
29	15 17	497	426 09 18	71	12 23	15.7	1.0 08 13	14.7	16 12	1188	1119 00 17	69	2, 2, 2, 2, 2, 3, 1, 2	16	1	82.5
30	19 20	504	437 08 05	67	13 30	15.6	4.0 06 43	11.6	17 19	1174	1146 11 36	28	1, 1, 2, 1, 1, 2, 2, 1	11	0	82.6
31	18 40	494	435 10 23	59	14 18	17.6	0.9 06 21	16.7	19 24	1162	1126 23 18	36	2, 1, 1, 1, 1, 1, 2, 1	10	0	82.5
Mean	- -	516	358 - -	157	- -	18.3	-6.3 - -	24.6	- -	1189	1076 - -	113	-	-	0.58	82.1

TERRESTRIAL MAGNETIC FORCE: HORIZONTAL COMPONENT
Mean values for periods of sixty minutes ending at exact hours, G.M.T.

29	LERWICK (H)													14,000γ (0.14 C.G.S. unit) +													JUNE 1955				
	Hour G.M.T.																										Mean				
	0-1	1-2	2-3	3-4	4-5	5-6	6-7	7-8	8-9	9-10	10-11	11-12	12-13	13-14	14-15	15-16	16-17	17-18	18-19	19-20	20-21	21-22	22-23	23-24							
	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ					
1	477	470	457	473	466	457	466	457	448	441	437	444	453	468	470	492	508	514	500	493	489	486	480	475	472	472					
2	469	472	472	477	474	469	460	448	437	437	433	439	450	455	465	478	482	482	489	492	484	484	482	482	467	467					
3	478	479	474	474	475	473	463	454	444	443	449	451	460	463	474	478	485	500	492	501	492	486	483	482	473	473					
4	479	480	479	478	477	471	452	444	448	438	438	448	458	460	466	466	483	500	503	504	494	478	473	473	470	470					
5 q	475	467	470	474	472	467	458	449	438	432	433	441	447	457	473	474	492	507	507	502	490	482	480	479	469	469					
6	477	475	475	474	475	469	464	455	447	441	437	436	446	453	468	475	486	513	525	528	504	485	470	459	472	472					
7	458	460	475	470	478	472	465	455	444	437	432	444	456	469	470	474	478	487	482	484	485	485	490	489	468	468					
8 d	477	482	482	402	428	467	464	464	448	440	431	437	436	479	490	476	536	561	517	504	493	479	485	464	473	473					
9	466	469	470	472	469	457	449	447	437	433	433	443	450	454	465	476	487	493	501	499	493	483	479	479	467	467					
10 q	474	475	479	479	476	469	465	457	448	437	429	430	444	453	462	482	486	486	482	479	482	478	474	470	467	467					
11	471	471	469	471	471	468	463	458	449	448	452	447	453	464	466	467	485	518	502	498	496	496	501	487	474	474					
12	485	490	487	488	483	470	485	485	470	454	456	464	466	481	475	485	486	489	503	498	493	491	484	485	481	481					
13	470	475	471	474	476	474	472	461	458	459	455	458	458	485	466	461	492	507	495	504	502	499	498	493	478	478					
14	482	489	489	490	495	494	483	465	451	451	444	463	455	470	483	504	492	496	501	498	496	484	482	478	481	481					
15 d	477	470	438	450	452	476	470	448	413	419	428	426	450	457	463	481	483	496	503	503	493	486	488	482	465	465					
16 d	476	422	469	464	466	461	458	445	441	429	429	420	464	470	455	472	473	475	492	498	496	487	483	479	463	463					
17	475	467	461	442	454	455	468	464	456	445	422	425	446	464	485	467	475	501	499	505	504	491	493	480	469	469					
18	477	477	475	476	477	477	470	461	447	422	431	444	448	451	462	476	480	487	495	501	494	489	482	478	470	470					
19	474	477	470	467	490	483	468	466	466	455	454	454	469	458	467	476	485	496	505	502	489	483	479	474	475	475					
20	470	470	468	473	471	469	460	451	443	433	430	432	451	467	480	494	519	499	502	500	491	485	482	480	472	472					
21 q	480	474	474	479	477	470	463	456	443	430	432	441	453	462	471	486	490	493	493	499	493	489	486	483	472	472					
22	490	479	482	484	485	483	476	466	459	454	456	450	452	460	483	484	486	496	514	518	508	492	485	477	480	480					
23 d	482	475	481	479	464	458	464	467	464	447	437	444	452	459	473	484	492	511	518	504	511	482	468	428	473	473					
24 d	367	422	424	429	463	472	463	452	434	447	452	453	440	454	456	467	480	480	499	493	498	488	474	475	458	458					
25	469	452	467	460	461	467	466	463	444	428	427	425	449	457	463	468	478	492	495	508	494	485	482	483	466	466					
26 q	478	476	470	470	476	475	470	460	450	441	441	438	447	453	467	470	476	490	495	499	496	485	477	472	470	470					
27	467	463	464	470	469	467	461	454	453	451	448	456	458	457	462	469	480	466	481	488	487	483	480	477	467	467					
28	476	477	468	471	463	458	468	469	457	446	435	452	457	462	459	464	472	477	484	484	490	485	472	475	468	468					
29	472	475	472	472	474	474	465	467	464	456	449	450	461	472	467	468	482	492	501	496	490	481	481	481	473	473					
30 q	482	481	481	479	475	473	465	459	455	446	443	445	454	466	477	481	482	485	495	492	489	484	482	484	473	473					
Mean	472	470	470	469	471	470	465	458	449	441	439	443	453	463	469	477	487	496	499	499	494	486	482	477	471	471					

MAGNETIC DECLINATION (WEST)
Mean values for periods of sixty minutes ending at exact hours, G.M.T.

30 LERWICK (D)		10° +													JUNE 1955											
	Hour G.M.T.	0-1	1-2	2-3	3-4	4-5	5-6	6-7	7-8	8-9	9-10	10-11	11-12	12-13	13-14	14-15	15-16	16-17	17-18	18-19	19-20	20-21	21-22	22-23	23-24	Mean
1		8.4	7.9	6.1	4.1	1.0	0.4	1.5	3.3	4.5	8.3	11.5	13.8	15.7	17.5	18.7	18.7	17.2	9.2	13.4	13.6	12.3	11.5	10.2	10.1	10.0
2		12.2	9.1	7.4	6.0	4.0	3.1	3.2	4.5	6.5	7.8	11.2	13.8	16.8	18.4	16.7	14.0	12.4	11.3	10.3	10.5	10.1	11.2	11.5	11.3	10.1
3		9.7	9.6	10.1	9.3	5.4	2.5	1.8	3.7	5.1	7.8	10.1	12.7	15.4	15.1	14.4	14.4	14.8	14.4	13.0	12.1	8.9	11.2	9.8	10.4	10.1
4		9.0	7.7	7.3	5.8	4.9	3.6	2.3	6.7	7.3	10.3	11.9	15.4	19.5	17.3	15.9	14.4	13.6	13.2	11.9	12.0	6.7	8.0	9.3	9.0	10.1
5 q		8.0	6.7	6.0	5.8	5.2	4.2	3.3	2.2	2.9	6.0	9.0	11.3	13.2	14.3	16.1	15.7	14.9	14.4	13.2	10.8	9.8	9.2	10.4	9.5	9.3
6		9.1	8.2	7.5	6.0	4.3	3.7	2.3	3.1	4.2	6.4	9.9	13.6	16.2	15.6	15.4	13.7	12.4	13.6	13.2	14.2	12.5	11.5	4.3	0.0	9.2
7		1.0	1.0	2.9	6.1	1.9	0.9	1.3	3.6	6.1	7.9	12.4	15.6	16.6	16.5	15.4	14.2	12.8	12.2	11.2	11.3	11.1	10.8	10.8	8.0	8.8
8 d		2.7	3.5	2.7	10.6	11.3	3.8	-1.9	-2.4	2.9	7.1	10.3	14.4	17.1	17.8	16.8	23.6	19.8	12.2	13.4	14.1	13.8	12.7	8.0	10.6	10.2
9		9.3	8.6	8.0	7.3	5.4	3.4	3.2	4.5	4.8	8.0	11.5	13.4	13.8	15.8	17.3	17.9	17.6	16.3	15.7	14.1	12.3	5.2	10.8	10.6	10.6
10 q		8.0	6.5	5.8	5.6	3.8	2.3	1.5	2.5	3.8	6.0	8.1	10.8	13.1	13.4	12.5	12.0	11.3	10.4	10.9	11.3	11.3	10.6	10.4	10.6	8.4
11		8.5	7.9	6.5	6.0	5.5	5.5	4.5	4.2	5.1	6.5	7.9	11.7	14.6	15.8	16.0	14.9	14.6	15.4	13.3	12.0	11.8	10.8	6.5	9.6	9.8
12		8.1	7.4	6.4	5.3	8.4	12.5	12.5	11.1	9.0	8.5	11.7	11.4	12.4	13.1	12.7	11.5	11.3	10.6	10.1	9.2	9.6	9.8	10.8	9.7	10.1
13		9.3	10.5	9.1	7.6	6.2	4.7	5.8	7.1	8.4	9.0	10.8	12.3	14.4	13.4	10.6	12.5	12.6	12.5	12.0	11.5	11.5	11.6	8.6	8.3	10.0
14		7.8	9.2	9.1	7.2	5.6	4.3	2.9	1.6	5.1	10.1	10.1	13.0	15.6	14.4	15.4	10.4	12.7	12.7	11.9	12.1	12.1	11.1	11.5	10.9	9.9
15 d		10.3	10.7	16.9	8.6	8.0	1.9	3.1	4.0	7.2	12.0	11.4	12.5	13.3	13.4	13.6	13.4	12.6	11.9	9.9	10.7	11.6	11.5	10.2	8.4	10.3
16 d		5.9	13.9	11.0	6.7	5.4	1.2	1.4	2.9	5.8	4.9	6.0	8.2	10.8	11.3	13.5	12.7	13.2	13.7	13.8	13.0	12.5	10.8	9.4	10.6	9.1
17		10.7	13.9	11.1	8.8	5.7	6.0	4.6	3.3	4.0	5.5	8.1	12.0	13.5	14.4	13.3	12.1	11.7	10.6	11.5	12.4	11.0	11.4	7.9	9.6	9.7
18		9.2	8.3	7.4	8.4	9.6	4.3	2.6	2.9	4.0	6.5	10.9	12.8	13.7	12.3	13.3	14.4	12.5	12.3	12.0	11.3	11.3	9.6	10.4	10.8	9.6
19		9.6	9.8	15.0	7.7	7.6	5.1	4.8	5.8	7.2	9.2	10.0	12.5	13.2	13.9	12.9	12.5	11.2	10.9	11.9	11.4	10.6	10.3	10.6	9.8	10.1
20		9.6	8.5	7.5	6.4	5.8	4.3	2.8	2.3	3.8	5.9	8.6	12.4	15.5	16.8	16.9	15.4	14.4	13.1	10.6	11.9	11.1	11.2	11.1	10.5	9.9
21 q		10.8	11.2	6.3	5.6	3.4	3.7	4.6	3.6	3.7	4.8	8.0	12.4	15.0	14.9	11.9	9.9	10.2	11.1	11.6	12.2	11.7	11.8	10.8	10.3	9.1
22		9.4	7.6	6.0	4.8	3.6	3.0	2.9	3.8	4.4	6.5	8.8	12.6	14.4	13.4	14.6	16.7	16.7	14.5	13.7	14.7	11.7	8.6	12.1	12.7	9.9
23 d		5.6	6.7	6.5	3.0	5.3	9.1	8.4	4.1	1.3	4.8	7.3	11.6	14.8	17.2	18.4	19.6	18.1	18.1	16.3	10.3	12.5	1.0	1.8	-6.2	9.0
24 d		-10.8	-11.0	-13.8	-9.2	-4.8	-2.0	-1.9	-2.1	2.4	5.1	5.9	11.5	15.4	17.5	18.2	18.5	19.2	17.0	13.8	12.3	13.0	8.3	9.6	8.6	5.9
25		7.2	9.6	10.1	6.6	6.7	5.0	2.2	3.6	11.6	12.5	9.7	10.9	11.6	15.1	16.6	16.3	14.9	13.6	11.7	7.7	10.4	10.6	10.3	10.5	10.2
26 q		9.6	8.5	8.7	8.0	4.8	2.5	2.6	3.1	4.3	6.7	8.2	11.1	11.8	11.5	13.0	11.9	11.2	11.2	11.7	11.8	12.0	11.3	10.5	9.2	9.0
27 q		8.6	8.0	5.9	6.0	6.6	4.8	3.2	4.8	7.2	8.0	11.2	13.2	13.4	13.4	13.5	12.9	13.0	12.1	12.5	11.8	10.9	10.3	9.6	9.3	9.6
28		8.7	7.7	7.2	6.6	5.2	5.3	7.0	5.9	6.5	8.6	11.8	13.8	15.9	16.3	15.5	13.8	12.5	11.5	11.5	10.9	10.9	10.9	9.9	13.5	10.3
29		9.1	7.1	4.8	5.2	4.7	3.4	2.6	2.8	3.1	3.4	5.7	8.0	9.1	10.9	11.7	10.2	11.3	11.7	12.8	11.7	8.3	9.2	9.6	9.6	7.7
30 q		8.4	2.5	4.6	4.1	4.5	4.2	5.0	5.4	7.4	9.4	10.7	12.4	13.9	14.7	15.8	15.1	12.5	11.6	11.7	11.6	11.1	10.9	10.6	9.9	9.5
Mean		7.8	7.6	7.0	6.0	5.2	3.9	3.3	3.7	5.3	7.5	9.6	12.4	14.3	14.8	14.9	14.4	13.8	12.8	12.3	11.8	11.1	10.1	9.6	9.2	9.5

TERRESTRIAL MAGNETIC FORCE: VERTICAL COMPONENT
Mean values for periods of sixty minutes ending at exact hours, G.M.T.

23

31 LERWICK (Z)		46,000γ (0.46 C.G.S. unit) +																						JUNE 1955			
	Hour G.M.T.																										
	0-1	1-2	2-3	3-4	4-5	5-6	6-7	7-8	8-9	9-10	10-11	11-12	12-13	13-14	14-15	15-16	16-17	17-18	18-19	19-20	20-21	21-22	22-23	22-24	Mean		
	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ		
1	1138	1139	1139	1132	1139	1150	1151	1148	1153	1155	1153	1151	1152	1150	1152	1149	1162	1188	1182	1166	1161	1158	1158	1156	1153		
2	1148	1143	1153	1156	1160	1159	1158	1156	1156	1154	1148	1143	1151	1161	1158	1152	1154	1153	1156	1162	1166	1161	1159	1159	1155		
3	1161	1161	1159	1151	1152	1155	1156	1156	1157	1154	1154	1154	1153	1156	1155	1155	1158	1157	1170	1166	1172	1161	1159	1158	1158		
4	1157	1158	1157	1160	1158	1157	1158	1145	1143	1142	1142	1149	1153	1157	1166	1168	1165	1164	1170	1169	1169	1156	1156	1155	1157		
5 q	1152	1155	1156	1160	1162	1164	1162	1160	1153	1151	1145	1141	1143	1149	1157	1167	1168	1170	1175	1174	1166	1159	1155	1155	1158		
6	1156	1158	1160	1160	1160	1159	1155	1154	1152	1150	1149	1149	1150	1151	1157	1161	1163	1161	1166	1168	1180	1172	1160	1129	1157		
7	1116	1125	1114	1107	1133	1152	1159	1166	1158	1155	1148	1143	1142	1148	1154	1156	1156	1156	1158	1155	1152	1152	1149	1110	1144		
8 d	1111	1127	1119	1064	1018	1069	1110	1129	1142	1142	1146	1145	1148	1161	1197	1237	1235	1262	1218	1192	1179	1170	1118	1135	1149		
9	1151	1158	1162	1162	1164	1163	1163	1158	1157	1157	1153	1148	1155	1162	1167	1169	1170	1166	1158	1158	1160	1169	1158	1150	1160		
10 q	1151	1154	1158	1160	1161	1160	1161	1160	1156	1149	1149	1148	1145	1145	1148	1152	1167	1176	1172	1168	1160	1160	1157	1149	1157		
11	1149	1150	1152	1154	1156	1161	1161	1158	1153	1145	1142	1142	1141	1145	1153	1158	1160	1164	1178	1179	1175	1168	1143	1137	1155		
12	1133	1135	1139	1151	1155	1151	1133	1139	1148	1154	1153	1158	1162	1164	1169	1168	1166	1166	1167	1170	1173	1170	1166	1151	1156		
13	1153	1152	1159	1161	1162	1167	1164	1168	1163	1157	1159	1157	1155	1164	1183	1184	1176	1179	1178	1170	1169	1166	1159	1146	1165		
14	1143	1149	1153	1155	1152	1156	1158	1163	1160	1151	1157	1158	1163	1172	1176	1191	1199	1200	1196	1191	1179	1172	1165	1161	1167		
15 d	1156	1151	1096	1087	1117	1129	1143	1155	1171	1162	1165	1169	1169	1177	1178	1163	1169	1176	1187	1176	1169	1166	1155	1119	1154		
16 d	1096	1076	1046	1123	1139	1152	1154	1156	1156	1159	1166	1179	1174	1192	1191	1176	1176	1166	1157	1163	1162	1164	1164	1159	1152		
17	1151	1146	1139	1133	1141	1141	1141	1155	1162	1163	1164	1163	1164	1166	1170	1179	1176	1170	1167	1164	1169	1158	1127	1141	1156		
18	1156	1159	1160	1155	1141	1143	1155	1158	1155	1161	1155	1149	1150	1153	1162	1162	1164	1165	1164	1166	1169	1169	1166	1162	1158		
19	1162	1161	1145	1115	1133	1139	1147	1147	1151	1157	1154	1153	1150	1157	1157	1165	1164	1165	1164	1165	1169	1165	1161	1161	1154		
20	1162	1161	1162	1161	1163	1160	1160	1157	1155	1154	1149	1143	1142	1145	1148	1146	1156	1178	1179	1166	1161	1158	1155	1154	1157		
21 q	1152	1136	1134	1145	1153	1157	1155	1154	1156	1151	1146	1144	1143	1151	1152	1157	1163	1166	1161	1158	1158	1155	1153	1154	1152		
22	1145	1151	1156	1161	1161	1162	1160	1157	1154	1148	1143	1138	1133	1136	1142	1156	1156	1161	1164	1170	1172	1170	1154	1157	1154		
23 d	1118	1139	1143	1149	1154	1143	1142	1152	1154	1151	1144	1135	1135	1135	1137	1142	1146	1148	1162	1185	1167	1130	1136	1088	1143		
24 d	1045	1018	1002	1031	1076	1116	1142	1142	1151	1151	1148	1145	1145	1146	1168	1170	1178	1181	1171	1162	1154	1165	1162	1136	1129		
25	1136	1133	1122	1145	1151	1152	1153	1158	1145	1152	1159	1162	1160	1151	1158	1166	1176	1179	1176	1176	1164	1160	1156	1153	1156		
26 q	1151	1152	1153	1148	1146	1152	1154	1158	1161	1159	1154	1154	1151	1151	1146	1152	1161	1164	1170	1172	1171	1169	1143	1139	1155		
27	1143	1140	1145	1150	1155	1159	1158	1158	1153	1153	1152	1143	1141	1145	1145	1153	1163	1171	1164	1160	1161	1163	1161	1159	1154		
28	1151	1135	1140	1149	1152	1145	1140	1149	1153	1154	1153	1145	1151	1155	1157	1153	1148	1152	1156	1157	1158	1158	1162	1128	1150		
29	1130	1141	1151	1157	1155	1156	1159	1157	1155	1155	1154	1151	1142	1141	1149	1153	1151	1153	1156	1162	1168	1162	1158	1154	1153		
30 q	1141	1137	1136	1142	1151	1152	1152	1155	1156	1151	1143	1142	1142	1141	1148	1153	1156	1157	1155	1156	1156	1158	1157	1156	1150		
Mean	1140	1140	1137	1139	1144	1149	1152	1154	1155	1153	1152	1150	1150	1154	1160	1164	1167	1170	1170	1168	1166	1162	1154	1146	1154		

DAILY EXTREMES OF TERRESTRIAL MAGNETIC ELEMENTS, MAGNETIC CHARACTER FIGURES AND TEMPERATURE IN MAGNET HOUSE

32 LERWICK		TERRESTRIAL MAGNETIC ELEMENTS											3-hr. range indices K	Sum of K indices	Magnetic character of day (0-2)	Temperature in magnet house 200 +
Horizontal force			Declination			Vertical force										
Maximum 14,000γ +	Minimum 14,000γ +	Range	Maximum 10° +	Minimum 10° +	Range	Maximum 46,000γ +	Minimum 46,000γ +	Range								
	h. m.	γ	γ	h. m.	γ	h. m.	γ	h. m.	γ							
1	17 17	529	433 10 55	96	14 46	19.4	-0.7 05 44	20.1	17 42	1195	1126 03 23	69	2, 2, 1, 1, 3, 3, 2, 1	15	1	82.6
2	19 08	501	428 08 56	73	13 27	19.0	2.3 05 56	16.7	20 10	1169	1139 11 32	30	2, 1, 1, 1, 2, 2, 2, 1	12	0	82.5
3	17 52	522	440 08 44	82	13 18	15.9	1.3 05 58	14.6	18 32	1176	1149 03 38	27	1, 2, 1, 1, 1, 3, 2, 1	12	0	82.3
4	19 01	511	431 10 07	80	12 47	20.1	1.0 06 08	19.1	20 14	1184	1139 07 55	45	1, 1, 2, 2, 2, 2, 2, 1	13	0	83.7
5 q	17 32	517	428 09 05	89	15 01	17.2	1.2 07 48	16.0	19 28	1177	1139 11 32	38	1, 1, 1, 2, 2, 2, 2, 1	12	0	84.0
6	19 36	538	433 11 01	105	17 51	16.6	-7.7 23 13	24.3	20 07	1188	1102 23 52	86	0, 1, 1, 1, 2, 3, 3, 3	14	1	83.8
7	23 04	496	422 10 10	74	12 31	18.0	-1.2 00 24	19.2	15 12	1162	1096 23 38	66	3, 3, 2, 2, 2, 2, 1, 3	18	1	83.8
8 d	17 10	588	283 04 10	305	15 28	27.7	-4.7 07 03	32.4	17 29	1303	985 04 27	318	2, 5, 3, 2, 3, 4, 3, 4	26	1	83.5
9	18 48	505	429 09 38	76	14 31	18.8	0.5 21 39	18.3	21 29	1178	1145 00 00	33	1, 2, 1, 2, 2, 2, 2, 3	15	0	83.5
10 q	16 57	493	422 10 55	71	13 15	14.3	0.0 06 00	14.3	17 38	1179	1142 12 55	37	1, 1, 1, 1, 1, 2, 1, 1	9	0	83.0
11	17 43	528	437 12 25	91	14 10	16.9	2.3 22 10	14.6	18 47	1182	1133 23 00	49	1, 1, 1, 2, 3, 3, 2, 3	16	1	83.0
12	18 41	507	450 10 17	57	05 40	14.6	4.4 03 47	10.2	13 53	1176	1129 00 30	47	2, 3, 2, 2, 3, 1, 1, 2	16	1	82.7
13	17 33	524	448 12 16	76	12 37	14.9	3.9 05 48	11.0	15 03	1192	1142 23 53	50	2, 1, 1, 1, 3, 3, 2, 1	14	1	83.0
14	15 47	534	425 10 24	109	12 15	17.9	-1.4 08 08	19.3	16 25	1204	1142 00 03	62	2, 1, 2, 3, 3, 3, 2, 1	17	1	83.3
15 d	18 48	514	402 08 24	112	02 38	20.5	-1.2 05 50	21.7	18 36	1194	1069 03 02	125	4, 3, 3, 3, 3, 3, 2, 3	24	1	83.3
16 d	19 12	504	381 01 41	123	01 52	27.2	-0.5 06 35	27.7	13 53	1202	1010 01 58	192	4, 3, 2, 3, 3, 3, 1, 1	20	1	83.5
17	19 53	515	403 11 03	112	01 42	15.8	2.8 07 13	13.0	15 22	1185	1120 22 46	65	2, 2, 2, 3, 3, 3, 2, 3	20	1	83.3
18	19 31	506	416 09 50	90	15 27	15.1	-1.5 07 13	16.6	21 04	1170	1135 04 50	35	1, 2, 2, 2, 1, 2, 1, 1	12	0	83.4
19	18 38	508	446 13 30	62	02 48	22.6	3.7 05 32	18.9	20 10	1170	1099 03 10	71	3, 3, 2, 1, 3, 2, 2, 0	16	1	83.3
20	16 42	537	426 11 22	111	14 35	17.6	1.9 07 43	15.7	17 55	1189	1141 11 50	48	1, 1, 1, 1, 2, 3, 2, 1	12	0	83.2
21 q	19 13	504	427 09 40	77	13 07	15.7	2.7 08 08	13.0	17 22	1168	1129 02 07	39	2, 1, 1, 1, 2, 2, 1, 1	11	0	83.7
22	18 48	538	436 11 47	102	16 23	19.0	2.4 06 07	16.6	21 13	1178	1118 23 48	60	1, 0, 0, 3, 3, 3, 3, 3	16	1	83.8
23 d	20 42	542	367 24 00	175	15 56	20.4	-13.2 23 54	33.6	19 23	1198	1033 23 52	165	2, 3, 3, 1, 2, 2, 3, 4	20	1	84.0
24 d	20 41	509	352 00 38	157	14 09	21.2	-21.3 00 22	42.5	16 58	1186	994 02 26	192	4, 4, 3, 3, 3, 3, 2, 2	24	1	84.0
25	19 32	515	411 11 17	104	15 10	17.4	0.0 06 45	17.4	19 04	1186	1114 02 20	72	3, 1, 3, 3, 2, 2, 3, 1	18	1	84.0
26 q	19 32	503	435 11 25	68	22 16	13.8	1.9 06 19	11.9	19 02	1175	1132 22 58	43	1, 1, 1, 1, 1, 1, 1, 2	9	0	84.1
27	16 24	495	444 10 40	51	16 25	14.4	2.7 06 36	11.7	17 07	1175	1135 01 43	40	1, 1, 2, 1, 2, 3, 2, 0	12	0	84.0
28	20 33	496	427 10 30	69	23 02	21.3	2.9 05 12	18.4	22 23	1163	1122 23 17	41	2, 2, 1, 2, 3, 1, 1, 3	15	0	87.4
29	18 53	508	441 11 01	67	19 08	13.2	1.9 06 41	11.3	20 13	1172	1127 00 00	45	2, 0, 2, 1, 3, 2, 2, 1	13	0	87.4
30 q	18 52	498	440 10 07	58	14 54	16.2	1.2 01 38	15.0	17 12	1159	1129 01 02	30	2, 2, 1, 1, 1, 2, 1, 1	11	0	87.6
Mean	- -	516	419 - -	97	- -	18.1	-0.4 - -	18.5	- -	1185	1111 - -	74	-	-	0.53	83.8

TERRESTRIAL MAGNETIC FORCE: HORIZONTAL COMPONENT
Mean values for periods of sixty minutes ending at exact hours, G.M.T.

33 LERWICK (H)		14,000γ (0.14 C.G.S. unit) +														JULY 1955									
	Hour G.M.T.		2-3	3-4	4-5	5-6	6-7	7-8	8-9	9-10	10-11	11-12	12-13	13-14	14-15	15-16	16-17	17-18	18-19	19-20	20-21	21-22	22-23	23-24	Mean
	0-1	1-2																							
1	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ
2 d	484	480	479	476	474	469	463	469	460	452	447	450	452	459	470	478	487	497	497	499	497	492	489	486	475
3	485	483	477	491	489	481	472	461	451	446	450	454	460	475	467	481	477	539	547	473	446	433	472	463	474
4 q	466	460	443	422	436	452	456	458	450	443	436	438	443	443	458	463	475	480	488	495	495	487	475	472	460
5 q	473	471	467	466	469	470	460	463	458	456	449	448	442	451	461	468	476	485	487	491	491	480	474	472	468
6	470	468	464	472	470	467	466	468	459	450	443	443	451	456	470	477	487	482	487	486	493	487	480	478	470
7	476	472	476	477	474	466	462	461	458	451	447	452	459	461	472	498	486	505	523	513	520	526	515	497	481
8	495	491	439	476	475	474	475	474	464	446	433	437	440	451	474	484	497	495	495	493	485	486	481	477	472
9	479	478	472	464	469	471	467	459	456	441	445	450	450	449	468	481	526	491	513	527	514	489	483	478	476
10	474	477	477	481	482	479	470	463	455	449	443	445	443	467	470	467	481	487	487	487	486	482	482	485	472
11 d	473	473	475	476	471	471	471	466	456	443	444	448	428	453	496	501	496	495	510	500	491	490	475	469	474
12 d	467	452	452	469	475	473	463	443	431	407	420	439	486	466	474	482	504	474	471	479	481	477	487	478	465
13	440	388	463	470	471	470	469	459	432	435	445	445	444	469	492	515	529	524	510	496	483	452	414	425	464
14	433	456	477	473	469	465	465	462	456	452	449	450	459	449	469	489	463	483	485	492	490	485	477	472	467
15 d	474	466	472	475	479	472	463	466	468	452	449	448	460	468	469	485	503	492	499	494	486	481	478	475	474
16	474	477	477	475	474	470	466	464	452	446	443	452	457	479	493	492	475	498	506	505	501	497	481	477	476
17	467	432	451	461	472	479	472	457	446	440	441	442	442	464	473	485	494	509	500	509	499	490	480	479	470
18	477	475	477	476	459	460	478	471	457	450	441	437	446	453	465	475	487	494	491	493	494	493	486	478	471
19 q	477	480	481	481	470	452	453	459	453	447	445	452	448	467	477	482	488	490	498	503	492	489	484	479	473
20	475	471	475	475	472	466	457	447	437	438	453	453	461	474	475	478	482	484	488	488	486	485	484	485	471
21 q	482	482	483	483	482	476	468	462	453	449	448	446	453	462	488	483	487	503	507	511	500	486	478	474	477
22	477	474	479	484	482	477	472	465	451	439	436	445	459	468	476	488	495	503	507	502	494	498	482	478	476
23	478	479	480	478	472	474	469	461	452	449	453	445	447	449	456	468	481	497	493	493	488	492	496	485	472
24	465	481	485	489	492	489	482	474	465	453	443	447	447	453	465	472	488	498	510	510	500	484	478	468	477
25	475	491	500	500	485	480	472	462	453	449	443	442	433	443	455	463	485	484	491	491	491	490	489	487	473
26 d	485	476	476	482	482	480	472	467	458	443	431	435	445	460	469	482	482	482	486	489	493	491	491	480	472
27	472	474	473	472	472	474	477	481	478	475	453	443	451	454	467	474	485	500	500	503	500	485	486	485	476
28 q	477	482	464	469	475	474	471	463	458	452	446	445	451	462	469	474	483	491	497	501	506	492	488	486	474
29	482	484	483	482	479	476	476	472	466	456	447	442	453	464	468	478	487	482	487	491	491	489	485	485	475
30	479	475	480	481	481	477	475	476	469	461	453	446	452	461	472	488	500	504	510	498	497	483	488	490	479
31	481	481	482	484	481	477	470	464	456	456	448	441	441	448	461	473	483	487	495	493	500	492	489	477	473
Mean	474	471	473	475	475	472	468	464	456	448	444	445	450	459	471	480	489	495	499	497	493	486	481	477	473

MAGNETIC DECLINATION (WEST)
Mean values for periods of sixty minutes ending at exact hours, G.M.T.

34	LERWICK (D)												10° +												JULY 1955											
	Hour G.M.T.																																			
	0-1	1-2	2-3	3-4	4-5	5-6	6-7	7-8	8-9	9-10	10-11	11-12	12-13	13-14	14-15	15-16	16-17	17-18	18-19	19-20	20-21	21-22	22-23	23-24	Mean											
1	10.6	10.2	7.5	5.8	3.4	3.6	4.8	2.7	2.2	2.9	5.7	8.6	11.8	14.4	14.9	14.0	12.2	11.8	11.5	11.3	10.9	10.9	10.8	10.4	8.9											
2 d	9.6	9.6	8.4	2.4	-0.7	1.0	0.7	2.1	4.1	5.6	7.3	10.8	14.8	18.4	18.9	18.6	15.8	16.6	17.1	9.7	-1.2	0.8	6.4	8.4	8.5											
3	7.4	10.2	5.1	4.3	11.3	5.3	4.2	2.9	3.2	3.6	6.9	10.1	12.3	14.1	14.6	13.0	11.7	11.1	10.8	9.6	8.8	7.6	7.3	7.5	8.5											
4 q	7.7	7.3	6.3	7.0	6.0	4.1	2.7	2.4	2.7	4.6	7.5	10.4	13.1	15.3	15.6	14.3	12.7	11.8	10.6	10.1	9.1	8.3	7.9	7.7	8.5											
5 q	7.2	6.9	8.0	7.2	4.3	2.6	1.6	1.6	1.6	2.7	5.5	9.0	12.3	14.3	15.2	15.3	14.2	11.2	10.3	9.8	9.1	8.5	8.0	7.5	8.1											
6	7.3	6.0	5.1	5.4	5.0	3.2	4.0	4.3	6.5	8.4	10.5	13.2	15.6	16.5	17.1	17.8	16.8	16.8	16.3	16.0	15.6	13.8	9.7	8.4	10.8											
7	9.2	8.3	7.4	3.7	1.2	3.5	3.4	4.7	4.7	5.6	7.4	11.1	13.2	14.7	15.4	14.6	12.4	12.4	11.5	9.5	9.1	9.2	8.0	9.8	8.7											
8	8.4	7.9	7.8	7.2	6.2	4.0	2.2	1.5	1.3	4.3	8.8	11.1	15.0	15.4	14.6	13.9	14.4	11.1	12.2	11.7	7.0	11.2	10.9	9.6	9.1											
9	8.6	7.7	7.1	5.8	4.0	2.2	2.1	2.4	3.5	6.0	10.2	13.8	15.6	14.4	13.4	11.8	10.8	10.0	9.6	9.2	9.8	9.4	10.2	6.9	8.5											
10	7.1	7.2	7.9	8.4	7.2	6.0	4.8	3.1	4.0	6.3	9.7	12.5	12.5	14.4	15.8	15.7	15.2	13.2	11.8	11.9	12.7	12.2	8.4	8.4	9.9											
11 d	7.7	8.9	10.8	4.3	0.5	0.3	0.8	3.4	8.8	8.0	11.1	11.2	13.6	14.4	12.0	11.5	14.4	11.7	10.6	11.5	9.7	9.1	10.8	12.5	9.1											
12 d	16.1	9.8	3.4	3.0	2.3	1.5	2.2	6.0	10.1	12.5	10.5	7.9	10.6	9.9	9.8	11.5	10.6	10.9	13.0	13.9	12.8	15.4	11.1	3.2	9.1											
13	7.4	11.0	6.4	6.0	5.8	6.2	3.5	2.9	3.3	5.1	8.2	11.0	13.7	14.4	16.3	16.3	12.5	10.8	10.8	10.8	9.7	10.1	10.6	9.4	9.3											
14	8.3	8.1	6.7	4.9	4.0	4.2	6.2	5.7	5.0	7.5	8.6	10.8	12.8	14.6	14.6	12.3	12.3	10.0	10.1	11.5	11.2	10.1	9.3	8.4	9.1											
15 d	7.9	7.4	6.0	4.9	3.4	3.1	3.2	2.5	1.9	3.2	7.0	10.8	13.6	14.4	14.4	15.7	15.4	15.4	14.2	13.6	9.6	5.2	10.2	9.6	8.9											
16	11.3	13.5	8.3	6.0	6.4	3.1	2.6	2.9	3.2	4.5	6.2	9.3	13.0	13.4	13.1	12.9	13.3	13.0	11.6	11.8	9.2	4.1	8.4	8.6	8.7											
17	7.7	6.9	7.0	5.0	6.0	8.9	3.2	1.9	3.4	3.6	8.0	10.5	12.7	13.2	13.1	12.7	11.3	11.5	11.3	10.9	10.8	7.4	7.7	7.0	8.4											
18	7.3	6.6	6.0	6.2	4.5	8.6	8.0	7.7	5.5	5.1	6.7	12.0	15.6	14.4	11.7	11.1	10.2	8.4	8.8	9.6	10.8	10.8	10.6	10.1	9.0											
19 q	9.8	8.2	6.4	4.8	4.0	2.6	2.9	3.2	4.6	7.4	11.0	13.4	15.8	17.3	15.6	14.4	12.2	10.8	10.8	10.3	9.8	9.6	9.4	8.9	9.3											
20	8.6	8.1	8.0	6.2	4.8	4.2	5.3	5.1	5.1	7.7	11.2	13.2	13.0	12.5	12.5	12.3	10.6	9.6	10.1	10.8	8.3	8.4	9.1	8.4	8.9											
21 q	8.2	8.3	6.4	6.2	4.9	3.6	2.5	2.1	3.2	6.3	10.1	13.0	15.9	16.5	15.6	13.8	11.1	10.6	10.8	11.0	10.1	7.3	3.2	6.4	8.6											
22	7.7	6.9	6.9	6.7	4.7	4.3	3.1	2.7	4.2	6.7	9.4	12.0	14.4	15.1	15.7	15.0	12.8	10.6	9.1	8.9	9.1	9.7	8.4	2.4	8.6											
23	4.8	5.8	5.8	4.5	3.2	2.8	2.6	3.5	4.0	5.3	8.0	11.0	15.4	16.4	16.3	14.6	12.8	11.1	11.1	10.8	10.8	8.5	6.0	4.3	8.3											
24	2.1	5.1	4.7	5.1	1.2	2.1	1.0	1.3	2.4	3.8	6.7	10.0	13.1	14.7	14.6	13.2	12.5	11.0	9.9	9.6	9.4	9.8	9.4	7.2	7.5											
25	5.0	5.3	6.0	4.1	3.8	2.4	4.8	4.0	4.2	5.6	8.6	10.8	13.2	15.8	16.8	15.4	12.9	11.3	10.8	10.1	10.0	9.6	7.7	6.7	8.5											
26 d	3.6	6.7	4.4	4.6	2.6	2.7	0.7	1.0	1.8	4.8	8.9	12.0	15.6	16.6	17.0	14.9	14.4	13.2	11.5	12.7	2.5	7.2	5.8	8.4	8.1											
27	8.8	6.7	6.2	6.2	3.7	1.7	1.9	2.1	2.2	4.0	8.4	10.6	12.9	14.9	15.1	13.9	13.4	13.2	13.2	11.8	10.1	8.4	8.6	7.6	8.6											
28 q	6.9	6.7	6.0	6.7	5.6	4.3	3.9	2.4	1.9	2.4	4.3	6.5	10.0	13.1	14.4	14.1	12.8	10.1	9.3	9.8	9.9	8.9	8.3	6.2	7.7											
29	7.2	9.4	9.8	5.2	4.3	3.4	4.2	3.8	3.4	4.4	8.1	12.2	15.9	17.7	17.3	15.6	13.9	13.4	13.2	12.0	6.9	9.1	9.6	7.9	9.5											
30	8.4	7.4	6.4	5.9	4.1	1.9	1.8	4.6	4.9	3.2	6.0	9.4	14.1	16.6	15.9	14.0	12.7	11.0	9.9	9.1	10.4	9.8	6.8	6.3	8.4											
31	7.9	9.8	6.3	3.2	1.5	0.2	2.9	4.0	4.5	6.9	9.3	13.0	15.8	15.6	15.8	14.3	13.2	12.0	10.7	10.3	9.6	9.5	9.1	8.7	8.9											
Mean	7.9	8.0	6.7	5.4	4.2	3.5	3.2	3.2	3.9	5.4	8.3	11.0	13.8	14.9	14.9	14.1	13.0	11.8	11.4	11.0	9.4	9.0	8.6	7.8	8.8											

35 LERWICK (Z)		46,000γ (0.46 C.G.S. unit) +																		JULY 1955					
	Hour G.M.T.		2-3	3-4	4-5	5-6	6-7	7-8	8-9	9-10	10-11	11-12	12-13	13-14	14-15	15-16	16-17	17-18	18-19	19-20	20-21	21-22	22-23	23-24	Mean
	0-1	1-2																							
	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ
1	1153	1145	1146	1153	1155	1154	1148	1147	1149	1146	1144	1142	1146	1145	1144	1147	1150	1151	1154	1159	1159	1158	1158	1158	1150
2 d	1158	1152	1143	1128	1137	1144	1147	1149	1145	1137	1139	1141	1143	1138	1141	1143	1151	1150	1174	1156	1091	1092	1158	1161	1142
3	1158	1130	1120	1121	1091	1107	1123	1133	1144	1152	1154	1155	1154	1161	1161	1160	1159	1166	1162	1164	1165	1164	1158	1156	1147
4 q	1154	1155	1155	1156	1152	1150	1152	1151	1156	1158	1154	1149	1153	1152	1154	1157	1159	1161	1161	1160	1160	1163	1163	1160	1156
5 q	1159	1159	1159	1159	1159	1160	1156	1153	1153	1154	1155	1149	1151	1156	1157	1162	1165	1168	1166	1164	1160	1162	1159	1156	1158
6	1152	1154	1157	1160	1161	1159	1154	1154	1151	1148	1147	1147	1151	1152	1152	1151	1164	1166	1170	1170	1164	1157	1160	1163	1157
7	1154	1132	1098	1059	1089	1112	1128	1138	1149	1156	1157	1156	1153	1150	1151	1163	1177	1180	1170	1169	1163	1157	1154	1146	1144
8	1148	1157	1158	1158	1150	1152	1152	1153	1150	1154	1156	1150	1153	1163	1158	1164	1170	1189	1183	1187	1184	1171	1164	1161	1162
9	1161	1160	1162	1164	1167	1168	1165	1161	1158	1156	1151	1151	1152	1152	1162	1168	1166	1166	1165	1162	1162	1160	1155	1145	1160
10	1145	1152	1156	1158	1158	1159	1152	1154	1155	1158	1158	1154	1166	1154	1163	1184	1206	1210	1201	1189	1178	1168	1158	1145	1166
11 d	1133	1136	1107	1115	1139	1153	1154	1157	1154	1166	1160	1156	1154	1170	1180	1183	1171	1174	1172	1164	1166	1167	1162	1156	1156
12 d	1076	994	1094	1142	1158	1160	1156	1158	1164	1161	1162	1184	1197	1206	1228	1243	1238	1236	1224	1208	1188	1132	1106	1100	1163
13	1115	1095	1130	1151	1160	1162	1165	1168	1166	1164	1163	1158	1162	1170	1162	1165	1179	1174	1176	1172	1175	1174	1167	1161	1160
14	1158	1156	1161	1161	1156	1155	1151	1146	1152	1157	1158	1152	1150	1158	1162	1158	1168	1184	1178	1171	1168	1166	1165	1164	1161
15 d	1163	1160	1161	1160	1160	1160	1158	1158	1158	1156	1151	1150	1151	1149	1166	1176	1180	1164	1158	1162	1170	1163	1158	1160	1161
16	1156	1086	1091	1120	1124	1133	1145	1150	1154	1152	1154	1154	1155	1155	1159	1164	1166	1167	1170	1165	1169	1169	1162	1158	1149
17	1158	1161	1158	1157	1155	1134	1129	1144	1151	1159	1164	1157	1154	1155	1158	1163	1163	1163	1158	1156	1156	1157	1152	1156	1155
18	1160	1161	1163	1162	1158	1150	1130	1126	1132	1138	1144	1150	1158	1162	1169	1178	1183	1181	1174	1170	1164	1162	1160	1159	1158
19 q	1159	1161	1162	1160	1159	1158	1158	1157	1155	1152	1144	1139	1143	1146	1151	1156	1162	1160	1155	1155	1154	1153	1153	1152	1154
20	1154	1156	1156	1160	1159	1158	1158	1154	1150	1145	1139	1135	1138	1145	1149	1161	1162	1160	1158	1158	1164	1161	1157	1154	1154
21 q	1154	1149	1147	1151	1156	1158	1158	1157	1159	1155	1150	1143	1138	1139	1145	1155	1164	1169	1174	1175	1172	1158	1140	1146	1155
22	1151	1154	1156	1160	1162	1162	1162	1159	1159	1152	1146	1146	1144	1147	1151	1151	1156	1161	1164	1163	1160	1156	1148	1140	1155
23	1138	1133	1144	1152	1157	1158	1160	1160	1157	1151	1150	1148	1146	1141	1142	1150	1157	1160	1156	1158	1162	1167	1159	1120	1151
24	1134	1138	1144	1150	1156	1160	1160	1158	1156	1150	1146	1143	1140	1141	1144	1144	1150	1157	1156	1156	1156	1153	1151	1148	1150
25	1145	1144	1139	1138	1149	1151	1151	1155	1152	1155	1155	1151	1146	1146	1146	1147	1158	1162	1162	1159	1156	1156	1151	1144	1151
26 d	1139	1138	1140	1147	1147	1148	1146	1141	1143	1142	1144	1142	1139	1143	1143	1146	1148	1149	1158	1162	1168	1142	1136	1144	1146
27	1135	1121	1137	1138	1147	1151	1152	1151	1147	1148	1148	1145	1144	1144	1146	1151	1152	1152	1154	1155	1147	1150	1153	1155	1147
28 q	1154	1152	1152	1152	1153	1153	1151	1152	1156	1157	1156	1150	1145	1146	1146	1146	1155	1164	1163	1160	1160	1158	1153	1146	1153
29	1152	1153	1144	1144	1151	1154	1154	1156	1154	1152	1152	1150	1144	1144	1146	1145	1150	1153	1155	1162	1169	1168	1160	1138	1152
30	1150	1155	1156	1156	1156	1155	1156	1155	1147	1146	1145	1142	1146	1142	1138	1143	1150	1152	1151	1152	1150	1152	1151	1156	1150
31	1152	1133	1140	1149	1154	1153	1152	1149	1152	1149	1150	1154	1155	1158	1160	1164	1163	1168	1166	1161	1157	1157	1157	1156	1155
Mean	1148	1140	1143	1146	1150	1151	1151	1152	1153	1152	1151	1150	1151	1153	1156	1161	1166	1168	1167	1165	1162	1157	1154	1150	1154

DAILY EXTREMES OF TERRESTRIAL MAGNETIC ELEMENTS, MAGNETIC CHARACTER FIGURES AND TEMPERATURE IN MAGNET HOUSE

36 LERWICK		TERRESTRIAL MAGNETIC ELEMENTS												JULY 1955			
		Horizontal force			Declination			Vertical force			3-hr. range indices K	Sum of K indices	Magnetic character of day (0-2)	Temperature in magnet house 200 +			
		Maximum 14,000γ +	Minimum 14,000γ +	Range	Maximum 10° +	Minimum 10° +	Range	Maximum 46,000γ +	Minimum 46,000γ +	Range							
		h. m. γ	γ h. m.	γ	h. m. γ	γ h. m.	γ	h. m. γ	γ h. m.	γ				°A.			
1		18 58 501	440 10 57	61	14 04 15.3	1.6 07 46	13.7	21 48 1159	1140 11 41	19	1,1,2,1,1,1,1,1	9	0	87.6			
2 d		18 34 568	368 19 39	200	13 51 20.4	-14.4 20 53	34.8	19 14 1198	1056 21 04	142	2,2,1,2,3,4,5,4	23	1	87.6			
3		20 23 501	413 03 39	88	04 07 15.5	0.5 03 22	15.0	17 39 1168	1080 04 43	88	3,3,2,2,1,2,2,1	16	1	87.6			
4 q		20 00 497	436 12 37	61	13 32 16.0	1.6 06 53	14.4	21 51 1165	1148 11 42	17	1,1,2,1,1,0,1,0	7	0	87.6			
5 q		20 57 497	440 11 31	57	15 04 15.8	0.4 08 15	15.4	16 57 1170	1148 11 29	22	1,1,1,1,1,2,1,1	9	0	87.6			
6		21 18 530	446 10 31	84	15 25 18.5	2.3 05 15	16.2	19 05 1174	1146 15 18	28	1,1,1,1,1,2,2,3	12	0	87.3			
7		15 59 511	423 02 50	88	14 52 16.5	-0.7 03 45	17.2	17 21 1183	1047 03 30	136	4,3,2,2,2,2,1,2	18	1	87.8			
8		16 44 559	433 09 46	126	13 33 16.5	-0.6 08 12	17.1	17 16 1200	1143 00 00	57	1,1,1,2,2,4,3,2	16	1	87.7			
9		20 18 492	434 10 32	58	12 37 16.3	1.2 05 43	15.1	15 25 1170	1141 23 56	29	1,1,1,2,2,1,1,2	11	0	88.0			
10		15 58 524	418 12 13	106	15 59 18.9	2.1 07 05	16.8	16 44 1216	1134 23 59	82	1,1,2,2,3,3,2,2	16	1	88.1			
11 d		16 48 527	387 09 47	140	16 35 17.0	-0.7 05 25	17.7	15 47 1190	1097 02 34	93	3,3,3,4,3,3,1,2	22	1	88.2			
12 d		16 37 541	328 01 00	213	00 35 32.2	0.0 04 50	32.2	15 48 1251	923 00 59	328	5,2,2,3,3,2,3,4	24	1	91.4			
13		15 38 513	420 00 00	93	14 45 16.9	2.2 07 32	14.7	16 10 1183	1079 01 23	104	3,2,1,1,3,3,1,1	15	1	92.7			
14		16 48 511	445 10 52	66	14 07 15.7	2.1 04 54	13.6	17 40 1189	1144 12 17	45	1,2,2,1,2,2,1,0	11	0	91.6			
15 d		15 26 549	438 12 16	111	15 23 18.4	-4.1 21 01	22.5	16 01 1194	1145 13 32	49	1,1,1,2,3,4,3,3	18	1	92.4			
16		19 30 520	421 01 27	99	01 01 17.7	-2.2 21 19	19.9	21 15 1174	1068 01 40	106	4,2,1,1,2,2,2,3	17	0	91.0			
17		20 17 499	431 11 17	68	13 14 13.5	0.6 07 40	12.9	10 08 1166	1120 06 02	46	1,3,2,1,1,1,1,2	12	0	91.0			
18		19 22 508	441 10 27	67	12 50 16.0	2.0 04 54	14.0	16 39 1184	1123 07 33	61	1,3,2,2,2,1,1,0	12	0	91.0			
19 q		17 56 490	433 09 46	57	13 33 17.6	2.1 05 56	15.5	16 46 1164	1138 11 51	26	1,1,0,2,2,2,1,0,1	8	0	91.6			
20		19 17 516	441 11 44	75	11 25 13.9	3.9 05 12	10.0	20 40 1167	1133 11 20	34	1,1,1,1,2,2,1,2,1	10	0	90.6			
21 q		21 49 519	434 10 22	85	12 55 16.9	1.6 07 38	15.3	19 57 1176	1135 21 57	41	1,1,0,1,1,1,1,3	9	0	87.5			
22		17 19 500	442 11 30	58	14 23 15.9	0.6 23 55	15.3	18 09 1166	1137 23 54	29	1,1,0,1,1,2,0,2	8	0	87.4			
23		19 10 523	437 11 11	86	13 17 16.7	-0.2 23 59	16.9	21 32 1170	1109 23 42	61	2,1,1,1,1,1,2,3	12	0	87.5			
24		03 32 505	420 11 48	85	13 40 15.5	-2.1 04 07	17.6	06 33 1162	1122 00 00	40	3,2,2,2,1,2,1,1	14	1	87.5			
25		20 43 498	428 10 24	70	14 20 17.5	1.5 05 45	16.0	17 41 1164	1133 03 10	31	1,1,1,1,1,1,2,1,1	9	0	87.2			
26 d		19 35 510	416 13 03	94	21 21 19.6	-2.4 20 50	22.0	21 01 1172	1117 21 46	55	2,1,2,3,3,3,3,3	20	1	87.4			
27		20 07 511	441 09 40	70	14 27 15.6	0.4 05 45	15.2	19 40 1157	1114 01 12	43	2,1,1,1,1,1,2,1	10	0	87.7			
28 q		23 02 497	440 11 35	57	15 00 15.1	1.0 08 00	14.1	17 30 1166	1141 15 14	25	1,1,1,1,2,2,1,1	10	0	87.5			
29		18 32 520	443 11 40	77	13 22 17.9	0.8 20 42	17.1	20 43 1181	1134 23 23	47	2,1,1,1,0,1,3,2	11	0	87.7			
30		18 12 506	430 12 49	76	13 48 16.8	1.0 06 03	15.8	23 12 1159	1135 14 27	24	1,1,1,2,1,2,1,3	12	0	87.4			
31		17 34 501	439 10 55	62	12 28 16.4	-0.3 05 39	16.7	17 55 1169	1123 01 38	46	2,1,2,1,2,2,1,0	11	0	87.6			
Mean		- - 514	426 - -	88	- - 17.2	0.1 - -	17.1	- - 1178	1115 - -	63	-	-	0.35	88.7			

TERRESTRIAL MAGNETIC FORCE: HORIZONTAL COMPONENT
Mean values for periods of sixty minutes ending at exact hours, G.M.T.

37 LERWICK (H)		14,000γ (0.14 C.G.S. unit) +																						AUGUST 1955			
	Hour	G.M.T.	0-1	1-2	2-3	3-4	4-5	5-6	6-7	7-8	8-9	9-10	10-11	11-12	12-13	13-14	14-15	15-16	16-17	17-18	18-19	19-20	20-21	21-22	22-23	23-24	Mean
			γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ
1	q		473	472	472	474	477	477	472	465	454	447	443	443	452	467	465	471	484	509	504	493	489	487	485	486	473
2			484	479	467	477	481	477	472	464	456	452	449	452	458	465	473	476	484	492	496	501	501	494	473	465	475
3			475	445	442	484	485	486	472	458	449	445	440	447	453	475	479	469	477	498	491	495	492	489	492	483	472
4	d		460	464	484	488	472	471	491	477	454	438	397	391	394	485	501	532	562	577	521	488	476	472	428	456	474
5	d		464	466	470	468	465	470	463	449	421	428	441	435	417	440	468	472	482	488	494	508	500	477	472	446	463
6	d		451	471	478	484	477	472	425	390	402	418	416	445	454	494	538	568	557	566	523	505	498	455	448	423	473
7	d		424	417	443	452	458	447	433	432	421	417	425	425	443	457	478	487	491	503	516	508	518	487	481	477	460
8			469	452	458	467	468	466	461	461	453	436	426	436	440	447	454	479	491	502	498	488	483	479	476	474	465
9			465	465	471	469	471	472	471	463	455	446	436	436	447	459	463	473	471	479	488	493	493	483	480	476	468
10			474	473	472	473	478	482	479	470	459	447	441	446	461	462	470	479	481	492	493	495	491	487	485	478	474
11	q		478	478	475	480	476	473	468	460	456	451	452	452	460	469	475	482	484	491	491	495	491	492	485	480	475
12			482	485	482	473	474	478	476	469	461	450	450	453	456	461	462	468	478	487	495	491	493	487	485	482	474
13			479	479	471	473	476	468	459	455	447	441	448	458	465	474	482	479	487	490	491	492	498	497	497	484	475
14			471	469	480	486	485	482	475	471	466	459	454	446	458	464	469	481	506	540	510	511	500	480	483	498	481
15			489	479	477	493	496	484	464	459	453	451	446	453	472	474	462	467	474	470	472	478	479	477	473	471	471
16			469	469	471	469	464	465	463	475	469	461	455	450	450	447	451	461	470	478	484	488	484	480	480	478	468
17			478	476	475	474	473	473	469	460	448	439	439	436	451	452	464	473	503	509	491	491	490	487	483	484	472
18			477	476	480	479	480	471	459	471	467	458	449	444	456	472	481	467	476	489	501	495	480	486	482	472	474
19			468	469	469	476	482	466	471	472	464	458	453	452	450	460	474	485	485	489	488	488	489	484	475	477	473
20			479	475	475	476	474	471	467	461	451	440	433	436	446	460	479	479	477	492	496	487	484	484	482	483	470
21			488	481	474	477	469	474	470	464	460	455	449	451	458	471	481	481	484	490	494	491	487	484	481	483	475
22	q		482	481	478	478	476	472	466	459	454	454	452	452	458	472	479	482	480	478	480	487	489	487	485	481	473
23	q		482	489	489	489	487	485	476	467	458	453	450	446	450	457	468	476	482	487	492	494	491	485	484	484	476
24			482	480	477	476	478	480	483	479	469	458	456	446	446	463	468	472	479	491	496	495	498	491	487	484	476
25	q		484	484	483	482	481	480	475	469	461	458	456	460	468	462	473	483	477	491	496	499	489	488	488	489	478
26			488	485	481	479	474	469	466	456	446	440	451	455	466	474	476	478	469	473	481	484	485	484	481	482	472
27			483	479	478	476	474	473	469	465	461	454	456	458	463	473	479	483	478	486	482	489	499	497	490	485	476
28	d		487	484	484	484	470	458	424	406	402	445	463	452	459	461	463	465	472	475	476	484	484	482	482	481	464
29			483	480	474	469	461	450	454	463	459	448	446	447	460	468	488	474	472	470	472	487	482	469	465	466	467
30			470	469	458	462	468	467	462	457	448	443	436	436	452	465	474	475	472	468	473	479	481	484	481	484	465
31			476	476	472	472	473	474	471	462	453	449	452	450	457	469	475	469	470	472	484	484	488	488	489	473	471
Mean			475	472	473	476	475	472	465	459	451	446	444	445	452	465	475	480	486	494	493	492	490	484	479	476	472

MAGNETIC DECLINATION (WEST)
Mean values for periods of sixty minutes ending at exact hours, G.M.T.

38 LERWICK (D)		10° +																						AUGUST 1955			
	Hour	G.M.T.	0-1	1-2	2-3	3-4	4-5	5-6	6-7	7-8	8-9	9-10	10-11	11-12	12-13	13-14	14-15	15-16	16-17	17-18	18-19	19-20	20-21	21-22	22-23	23-24	Mean
1 q	9	1	9.1	7.3	6.9	5.5	4.1	3.3	3.6	3.6	4.3	6.0	8.3	11.5	13.7	13.8	12.7	12.4	11.9	11.0	10.8	11.5	10.8	8.3	8.6	9.0	8.7
2	3	9.3	9.6	13.2	6.3	3.4	2.1	2.6	3.1	4.2	5.8	8.1	10.2	11.7	13.7	13.4	13.9	13.2	12.5	11.0	10.6	10.8	11.7	4.8	3.3	4.8	8.3
3	9	1.5	3.2	11.7	2.3	1.9	1.7	2.9	5.7	6.4	4.1	6.8	12.1	16.9	18.4	18.3	16.0	13.1	12.7	10.8	10.8	11.1	9.8	9.2	3.5	8.7	
4 d	2	1	-0.6	0.7	1.6	4.8	11.0	5.0	2.6	4.4	5.3	6.7	15.4	19.6	20.2	22.6	16.6	13.8	9.1	2.2	9.6	11.7	7.0	-1.0	4.9	8.1	
5 d	9	0	9.0	9.6	6.5	5.4	4.3	2.7	2.7	3.4	8.3	8.2	9.2	12.8	15.8	15.9	14.4	13.6	11.7	10.8	9.6	10.8	3.2	2.5	7.1	16.0	8.9
6 d	4	3	3.5	2.5	6.7	9.6	9.6	10.1	14.8	10.8	9.4	10.8	11.3	17.3	18.2	21.8	21.3	17.6	14.4	15.6	13.6	10.4	5.2	-1.9	-4.1	10.5	
7 d	6	0	-1.4	-5.3	-0.7	-0.6	0.0	4.5	2.6	3.2	5.3	10.8	14.4	15.8	16.8	15.6	15.6	14.6	13.6	11.3	8.6	7.7	6.4	6.3	6.4	6.9	
8	6	4	5.4	7.9	6.4	5.2	4.6	5.4	4.3	3.1	4.8	8.3	11.8	13.4	13.8	13.0	11.0	10.9	7.2	6.5	9.0	10.0	9.8	8.9	9.8	8.2	
9	8	4	7.3	6.5	6.0	4.1	4.2	3.6	5.1	6.0	7.2	10.3	12.7	14.7	14.9	13.0	10.8	9.0	8.1	8.2	9.3	9.6	8.3	7.2	8.3	8.5	
10	8	9	9.1	9.2	11.5	5.0	2.6	3.4	3.8	5.7	6.5	10.4	12.7	16.7	16.3	13.4	10.5	9.2	7.5	8.2	9.8	10.0	9.4	6.7	10.3	9.0	
11 q	9	6	8.4	8.6	6.7	3.5	2.5	3.5	4.8	6.0	7.5	9.4	11.5	12.0	11.4	10.1	8.1	6.9	6.7	8.1	9.3	9.9	10.6	10.1	9.4	8.1	
12	10	0	8.8	7.3	4.1	2.6	0.9	1.5	3.1	5.1	7.0	9.4	11.3	12.9	13.4	12.0	10.8	9.6	9.6	10.8	10.3	8.0	9.6	9.6	9.0	8.2	
13	8	6	9.2	9.0	4.8	3.6	2.9	5.3	5.5	4.7	5.8	8.2	12.3	15.6	15.1	12.5	10.8	10.4	10.2	11.9	12.2	11.5	10.8	6.2	1.2	8.7	
14	0	4	4.0	2.5	0.6	1.3	2.6	6.0	5.8	5.3	7.0	11.5	13.0	13.9	15.0	14.0	13.2	12.3	13.7	12.3	12.3	6.9	6.1	9.3	7.9	8.2	
15	6	8	5.1	3.4	3.7	2.5	2.5	3.1	4.2	4.3	6.8	9.2	12.2	13.2	12.2	10.6	8.4	7.6	7.5	8.4	8.8	8.6	8.4	9.0	8.2	7.3	
16	7	4	7.3	6.9	6.2	6.3	6.9	8.8	6.8	6.0	6.7	9.8	12.6	14.9	14.6	12.8	10.3	8.4	7.9	8.3	8.8	9.0	8.8	8.2	7.7	8.8	
17	8	0	7.7	6.7	6.4	6.0	5.2	4.1	3.4	4.1	7.2	9.8	12.5	15.1	16.0	15.8	13.4	10.9	10.3	5.9	9.8	9.1	3.8	4.8	7.4	8.5	
18	7	7	7.0	6.1	5.6	5.8	7.6	10.3	7.6	7.2	7.5	10.6	11.5	12.0	14.3	15.6	14.0	11.5	11.1	10.2	9.3	7.4	8.6	7.4	5.8	9.2	
19	5	0	5.4	6.7	6.6	3.6	6.0	6.9	5.0	6.7	7.3	10.1	13.6	15.4	15.1	13.8	12.2	10.7	9.2	8.6	8.9	6.0	0.8	4.4	6.8	8.1	
20	7	4	7.2	7.4	6.0	4.6	2.9	1.9	2.1	4.7	7.5	11.3	13.9	15.4	15.2	13.4	11.0	8.2	8.2	8.6	8.4	9.6	9.8	9.2	8.3	8.4	
21	12	2	7.6	6.8	5.9	6.2	5.8	3.8	3.1	4.8	7.6	11.1	14.4	15.6	14.9	13.0	11.0	9.2	8.5	7.7	8.5	8.5	7.9	8.4	8.4	8.8	
22 q	8	0	7.4	6.7	6.4	5.1	3.6	3.0	4.0	5.5	7.4	10.3	14.3	16.3	16.1	14.1	11.8	10.5	9.6	9.6	9.4	9.0	8.0	7.3	6.5	8.7	
23 q	7	0	6.2	5.6	5.6	5.4	4.2	3.8	5.2	5.8	7.5	10.6	14.1	16.3	16.9	14.5	11.7	10.1	9.6	9.6	10.6	10.0	8.6	7.4	8.3	8.9	
24	8	2	7.3	6.4	5.8	4.2	3.2	2.4	2.8	4.9	7.4	9.9	13.8	15.7	16.3	15.3	14.7	13.5	12.2	11.5	11.0	11.0	9.6	8.4	7.5	9.3	
25 q	7	3	6.7	6.3	5.6	5.3	4.5	3.6	4.3	4.8	7.5	10.3	13.0	15.6	15.6	14.4	13.2	11.9	10.8	10.3	11.9	12.1	9.4	8.4	8.3	9.2	
26	7	4	6.6	5.9	3.6	3.2	3.2	3.6	4.1	5.1	6.8	9.5	12.4	14.3	16.1	14.7	13.1	11.0	10.7	9.3	9.3	9.1	8.5	8.5	6.8	4.5	8.2
27	4	7	5.6	5.5	5.9	4.9	4.9	4.9	6.3	7.7	9.2	11.2	13.8	14.2	13.5	12.1	11.3	11.1	10.9	11.0	12.5	12.1	9.7	8.2	8.0	9.1	
28 d	8	1	7.9	7.5	7.3	3.2	6.1	2.0	17.3	13.5	12.4	10.6	12.6	16.8	18.0	16.0	14.7	12.8	13.2	11.6	10.5	10.1	9.7	8.5	7.4	10.7	
29	6	5	5.7	6.1	5.5	4.9	4.4	4.0	2.2	4.5	6.8	11.0	12.7	15.0	15.1	13.8	10.9	9.9	9.0	8.9	9.7	5.2	-3.3	2.9	5.7	7.4	
30	6	6	6.2	7.9	5.7	4.1	3.6	3.7	4.7	4.4	7.3	10.9	13.6	14.5	13.1	10.4	8.3	7.4	7.8	8.8	9.4	8.8	8.7	7.7	7.1	7.9	
31	6	3	6.4	5.2	5.1	4.9	4.7	4.9	4.1	5.9	8.8	11.7	13.3	14.0	14.4	12.6	8.7	6.9	6.5	7.1	7.6	8.7	7.6	2.2	3.3	7.5	
Mean	6	6	6.3	6.3	5.3	4.3	4.2	4.4	5.0	5.7	7.1	9.9	12.8	15.0	15.3	14.2	12.3	10.8	9.9	9.4	10.1	9.2	7.2	6.7	7.0	8.5	

TERRESTRIAL MAGNETIC FORCE: VERTICAL COMPONENT
Mean values for periods of sixty minutes ending at exact hours, G.M.T.

27

39 LERWICK (Z)		46,000γ (0.46 C.G.S. unit) +												AUGUST 1955												Mean
Hour G.M.T.		0-1	1-2	2-3	3-4	4-5	5-6	6-7	7-8	8-9	9-10	10-11	11-12	12-13	13-14	14-15	15-16	16-17	17-18	18-19	19-20	20-21	21-22	22-23	23-24	
γ		γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ
1 q	1156	1153	1156	1159	1159	1156	1155	1157	1156	1149	1146	1146	1141	1142	1152	1156	1156	1162	1173	1174	1167	1158	1152	1150	1155	1155
2	1149	1142	1138	1132	1148	1152	1152	1150	1147	1147	1145	1144	1143	1146	1149	1154	1157	1157	1154	1153	1152	1156	1150	1115	1147	1147
3	1111	1131	1100	1092	1133	1145	1150	1155	1152	1150	1150	1151	1152	1150	1152	1169	1168	1170	1174	1168	1160	1157	1150	1109	1146	1146
4 d	1107	1103	1131	1149	1149	1129	1122	1134	1141	1147	1163	1166	1172	1174	1216	1270	1261	1277	1249	1217	1193	1172	1108	1109	1169	1169
5 d	1123	1132	1158	1161	1168	1168	1168	1162	1163	1164	1158	1162	1165	1160	1168	1188	1180	1189	1181	1172	1161	1147	1148	1086	1160	1160
6 d	1058	1096	1134	1141	1128	1127	1133	1114	1123	1149	1151	1159	1178	1224	1241	1243	1241	1200	1187	1193	1194	1176	1066	1078	1156	1156
7 d	1081	1061	1061	1105	1125	1134	1117	1130	1157	1162	1157	1155	1164	1195	1193	1186	1188	1187	1194	1200	1177	1166	1166	1160	1151	1151
8	1154	1154	1154	1163	1168	1169	1166	1165	1169	1171	1166	1163	1155	1165	1162	1165	1181	1195	1200	1182	1171	1165	1161	1154	1167	1167
9	1130	1146	1152	1162	1168	1166	1166	1166	1164	1163	1165	1161	1163	1162	1164	1169	1175	1175	1176	1173	1171	1169	1163	1159	1164	1164
10	1157	1156	1157	1150	1144	1152	1155	1158	1159	1160	1159	1152	1153	1160	1168	1175	1181	1178	1179	1175	1174	1170	1163	1157	1162	1162
11 q	1160	1162	1160	1158	1164	1167	1167	1163	1156	1152	1156	1159	1159	1160	1163	1163	1164	1168	1168	1165	1164	1163	1162	1162	1162	1162
12	1158	1152	1152	1154	1156	1154	1154	1154	1152	1148	1142	1140	1143	1147	1152	1158	1160	1158	1157	1162	1166	1163	1160	1158	1154	1154
13	1157	1150	1146	1145	1151	1154	1154	1152	1152	1149	1149	1144	1140	1145	1153	1157	1156	1156	1159	1159	1159	1159	1154	1142	1152	1152
14	1130	1127	1120	1140	1151	1153	1151	1150	1151	1150	1149	1151	1147	1155	1162	1168	1183	1202	1232	1204	1182	1160	1160	1159	1160	1160
15	1173	1167	1168	1159	1152	1154	1157	1154	1155	1152	1156	1156	1154	1160	1172	1172	1168	1165	1159	1157	1157	1158	1158	1158	1160	1160
16	1161	1161	1161	1161	1161	1151	1140	1130	1139	1147	1152	1153	1155	1159	1161	1161	1161	1158	1155	1153	1153	1154	1154	1156	1154	1154
17	1157	1159	1161	1162	1163	1161	1160	1160	1162	1155	1147	1142	1140	1149	1155	1158	1167	1176	1186	1172	1165	1148	1130	1123	1157	1157
18	1136	1148	1156	1160	1158	1157	1153	1147	1146	1148	1147	1151	1151	1153	1164	1174	1176	1176	1176	1176	1178	1161	1153	1140	1158	1158
19	1137	1147	1152	1153	1154	1158	1147	1146	1150	1152	1153	1152	1154	1152	1156	1164	1168	1166	1163	1160	1160	1159	1147	1148	1154	1154
20	1153	1154	1155	1159	1163	1165	1164	1160	1156	1151	1150	1146	1145	1151	1159	1170	1176	1168	1165	1165	1161	1156	1153	1150	1158	1158
21	1131	1128	1143	1151	1158	1156	1160	1158	1154	1153	1150	1149	1151	1154	1160	1164	1166	1167	1169	1170	1167	1161	1158	1155	1156	1156
22 q	1155	1155	1158	1159	1162	1163	1162	1161	1157	1151	1144	1137	1136	1144	1151	1157	1160	1158	1160	1160	1160	1159	1156	1155	1155	1155
23 q	1153	1152	1152	1149	1152	1147	1149	1152	1149	1151	1147	1142	1141	1144	1152	1156	1162	1161	1160	1161	1161	1159	1158	1154	1153	1153
24	1153	1154	1155	1156	1158	1156	1154	1157	1158	1156	1152	1151	1150	1150	1154	1157	1158	1156	1156	1156	1155	1157	1157	1157	1155	1155
25 q	1154	1153	1153	1154	1155	1154	1155	1155	1154	1150	1145	1145	1141	1146	1147	1151	1154	1154	1163	1171	1181	1172	1163	1156	1155	1155
26	1151	1145	1141	1148	1153	1156	1156	1157	1155	1150	1144	1143	1146	1150	1157	1162	1165	1159	1153	1153	1154	1156	1155	1153	1153	1153
27	1149	1151	1152	1153	1154	1152	1152	1152	1150	1147	1146	1148	1145	1146	1149	1149	1153	1152	1158	1157	1153	1157	1153	1157	1151	1151
28 d	1155	1154	1154	1151	1149	1134	1132	1131	1125	1119	1132	1145	1146	1155	1176	1175	1170	1163	1157	1156	1159	1163	1160	1160	1151	1151
29	1159	1159	1160	1160	1162	1159	1148	1145	1145	1145	1147	1149	1148	1153	1159	1164	1157	1154	1152	1150	1166	1148	1148	1154	1154	1154
30	1157	1158	1156	1149	1157	1162	1164	1164	1162	1159	1157	1156	1153	1156	1161	1168	1166	1161	1157	1154	1156	1156	1157	1152	1158	1158
31	1148	1149	1156	1157	1156	1156	1156	1158	1157	1151	1147	1153	1154	1156	1160	1165	1166	1163	1160	1159	1158	1156	1133	1121	1154	1154
Mean	1142	1144	1147	1150	1154	1154	1152	1151	1152	1151	1151	1151	1151	1157	1164	1171	1172	1172	1172	1169	1166	1160	1150	1143	1156	1156

DAILY EXTREMES OF TERRESTRIAL MAGNETIC ELEMENTS, MAGNETIC CHARACTER FIGURES AND TEMPERATURE IN MAGNET HOUSE

40 LERWICK

AUGUST 1955

	TERRESTRIAL MAGNETIC ELEMENTS												3-hr. range indices K	Sum of K indices	Magnetic character of day (0-2)	Temperature in magnet house 200 +				
	Horizontal force			Declination			Vertical force													
	Maximum 14,000γ +	Minimum 14,000γ +	Range	Maximum 10° +	Minimum 10° +	Range	Maximum 46,000γ +	Minimum 46,000γ +	Range											
	h. m.	γ	γ	h. m.	γ	h. m.	γ	h. m.	γ	h. m.	γ									
1 q	17 34	516	435	11 48	81	13 32	14.7	2.9	05 40	11.8	18 53	1177	1135	12 47	42	1,1,0,1,2,2,2,1	10	0	87.6	
2	20 38	509	448	10 11	61	02 48	15.3	1.4	23 37	13.9	16 29	1158	1091	24 00	67	2,2,0,1,1,0,1,3	10	0	87.9	
3	17 21	521	425	02 11	96	13 46	19.2	-3.8	00 33	23.0	18 06	1181	1074	02 54	107	3,3,2,1,2,3,2,3	19	1	87.8	
4 d	17 23	599	372	12 12	227	14 19	24.5	-12.0	22 02	36.5	17 52	1312	1077	22 43	235	3,3,3,3,4,4,4,4	28	1	87.7	
5 d	17 04	538	403	12 01	135	23 13	19.4	-11.5	20 33	30.9	17 30	1196	1029	23 59	167	3,1,2,3,3,3,4,4	23	1	87.7	
6 d	17 05	624	367	07 04	257	14 03	25.5	-17.3	22 18	42.8	15 20	1250	1015	22 35	235	4,3,4,4,4,4,3,5	31	1	87.6	
7 d	20 51	538	401	09 20	137	13 17	19.6	-8.6	00 03	28.2	19 21	1210	1042	02 13	168	3,3,3,3,3,2,3,3	23	1	87.3	
8	18 12	517	417	10 29	100	12 56	15.4	1.3	08 18	14.1	18 28	1205	1138	24 00	67	2,1,2,2,3,2,2,1	15	1	87.1	
9	20 22	508	426	10 47	82	13 03	15.8	2.8	06 38	13.0	18 27	1177	1122	00 15	55	2,1,1,1,2,1,2,1	11	0	87.0	
10	18 27	500	436	10 38	64	12 43	18.0	2.4	05 58	15.6	16 13	1184	1138	04 09	46	1,2,1,1,2,2,1,2	12	0	87.2	
11 q	20 00	501	450	11 27	51	12 43	12.8	2.1	05 48	10.7	18 06	1170	1151	09 35	19	1,1,1,1,1,1,1,1	8	0	87.3	
12	18 53	497	445	11 04	52	13 02	14.0	0.3	05 55	13.7	20 15	1168	1138	11 22	30	1,1,1,1,2,1,1,1	9	0	87.3	
13	22 30	505	437	09 08	68	12 48	16.7	-1.8	23 58	18.5	21 12	1162	1133	23 59	29	1,1,1,2,1,1,1,3	11	0	87.3	
14	17 37	549	440	11 25	109	17 52	15.7	-1.9	00 02	17.6	18 36	1239	1111	02 04	128	3,2,1,2,2,3,3,3	19	1	87.6	
15	03 57	503	439	10 31	64	12 18	13.9	-0.3	01 48	14.2	02 04	1176	1149	04 26	27	3,3,1,1,3,1,1,1	14	0	87.3	
16	20 04	493	440	13 00	53	12 50	15.2	5.4	05 08	9.8	15 56	1163	1125	07 02	38	0,2,2,1,2,1,1,1	10	0	87.9	
17	17 26	519	431	10 37	88	13 50	16.8	1.3	21 39	15.5	18 16	1191	1115	23 10	76	1,1,1,1,2,3,2,3	14	0	87.8	
18	19 15	507	433	11 13	74	14 18	15.9	2.2	23 21	13.7	20 10	1186	1126	24 00	60	2,2,2,2,1,1,2,2	14	0	88.0	
19	15 33	492	443	12 38	49	12 30	16.2	-1.2	21 03	17.4	16 07	1170	1126	00 00	44	2,2,2,1,1,2,3,3	16	0	87.7	
20	18 08	503	419	10 42	84	12 28	16.0	1.1	07 12	14.9	16 18	1178	1143	13 07	35	1,1,1,2,2,2,2,1	12	0	88.0	
21	18 18	498	447	10 31	51	12 55	16.0	2.4	07 06	13.6	19 23	1173	1117	00 40	56	2,1,2,1,1,1,1,1	10	0	88.0	
22 q	20 40	493	450	11 02	43	12 51	16.7	2.9	06 17	13.8	05 33	1164	1134	12 10	30	0,1,1,1,1,1,1,1	7	0	88.0	
23 q	18 52	499	445	11 37	54	13 10	17.3	3.6	06 19	13.7	16 42	1164	1140	12 30	24	1,1,2,0,1,1,1,1	8	0	88.0	
24	19 48	500	435	12 02	65	13 58	16.9	1.9	07 35	15.0	08 07	1160	1146	10 40	14	0,1,1,2,2,1,1,1	9	0	88.0	
25 q	19 49	504	453	10 26	51	12 48	17.5	3.4	06 34	14.1	20 24	1182	1138	12 49	44	1,1,1,1,2,2,2,1	11	0	88.1	
26	15 04	493	439	09 04	54	13 32	16.8	2.5	04 02	14.3	16 10	1166	1138	02 31	28	1,1,1,3,2,3,1,2	14	0	88.0	
27	21 04	504	450	09 40	54	11 59	14.8	4.3	00 12	10.5	21 50	1164	1143	12 58	21	1,1,1,1,1,2,2,2	11	0	88.0	
28 d	20 11	489	379	08 08	110	07 44	23.5	-2.8	06 35	26.3	14 35	1181	1113	09 20	68	0,3,4,3,2,2,1,1	16	1	88.1	
29	21 10	506	439	10 41	67	12 40	16.1	-8.2	21 37	24.3	20 37	1176	1133	21 22	43	2,2,2,2,2,3,3,3	19	1	88.0	
30	23 57	488	430	11 09	58	12 00	15.0	2.9	08 00	12.1	16 00	1169	1144	03 18	25	1,1,1,1,2,2,1,1	10	0	88.0	
31	22 15	506	443	11 14	63	13 01	15.0	-1.1	22 12	16.1	16 10	1167	1117	23 22	50	1,1,1,2,1,2,1,3	12	0	88.0	
Mean	-	-	514	430	-	84	-	17.0	-0.8	-	17.7	-	1185	1117	-	67	-	-	0.29	87.7

MAGNETIC DECLINATION (WEST)
Mean values for periods of sixty minutes ending at exact hours, G.M.T.

42 LERWICK (D)		10°											SEPTEMBER 1955													
	Hour G.M.T.	0-1	1-2	2-3	3-4	4-5	5-6	6-7	7-8	8-9	9-10	10-11	11-12	12-13	13-14	14-15	15-16	16-17	17-18	18-19	19-20	20-21	21-22	22-23	23-24	Mean
1		4.0	6.5	5.5	5.3	5.6	4.5	3.3	4.5	7.3	11.6	10.8	12.6	15.7	15.7	16.6	14.1	11.3	10.9	8.3	0.8	3.9	4.9	5.7	5.9	8.1
2		4.9	7.3	12.6	9.6	0.4	6.3	6.4	6.8	7.1	8.6	12.9	15.7	18.7	18.1	14.7	12.1	9.0	7.4	8.0	8.5	7.3	8.1	7.0	3.3	9.2
3		4.7	6.5	14.5	6.3	1.6	2.6	4.7	5.2	3.9	7.9	13.3	14.1	15.2	15.7	14.1	11.0	8.6	8.1	7.5	6.5	3.0	4.3	6.9	7.5	8.1
4		3.6	4.2	4.5	7.6	5.2	1.5	2.7	3.5	4.5	8.2	13.3	16.4	18.9	18.5	18.3	15.2	9.7	7.3	8.3	9.7	8.2	-1.0	4.0	2.9	8.1
5 d		4.4	10.4	9.3	3.3	2.8	5.9	12.8	15.7	10.0	6.3	9.4	13.7	13.9	13.2	14.9	10.1	8.4	7.1	7.5	5.6	8.8	7.9	7.3	3.7	8.9
6		5.6	7.4	6.2	10.1	9.9	7.3	5.1	6.0	7.6	11.3	12.0	13.7	14.1	12.9	12.1	10.2	8.3	8.7	7.0	-1.3	4.7	7.8	8.1	10.1	8.5
7		8.0	3.8	4.4	2.4	2.3	4.0	3.0	2.7	4.8	7.4	10.9	13.1	15.0	15.1	13.5	10.9	8.7	8.5	8.8	8.7	8.7	7.8	6.0	6.7	7.7
8		7.4	7.1	7.6	7.3	6.1	4.3	4.1	4.1	4.9	6.3	9.7	13.1	16.8	18.1	16.0	12.0	9.8	9.2	9.5	9.7	9.6	9.0	7.6	4.9	8.9
9		5.8	11.4	8.1	4.6	2.9	2.7	2.7	2.4	3.3	5.2	8.1	11.3	13.2	13.0	12.3	10.9	7.5	7.3	8.3	8.9	9.2	8.6	8.7	5.0	7.6
10		6.1	6.7	8.3	6.4	6.1	7.5	6.9	7.6	8.7	10.6	11.8	12.3	12.4	12.1	11.2	9.5	8.7	8.8	8.3	8.5	7.8	8.0	6.9	6.8	8.7
11 q		7.3	8.1	4.3	2.9	2.6	3.4	4.6	4.2	3.7	4.9	6.9	10.0	13.1	13.3	12.6	11.0	9.4	8.6	8.7	9.2	9.7	8.9	9.0	4.9	7.6
12		2.0	5.2	5.9	2.5	6.1	6.1	6.4	15.1	12.6	6.1	9.0	11.8	14.8	13.7	11.4	8.8	4.9	4.8	6.8	8.7	8.8	8.5	8.7	0.5	7.9
13 d		-0.6	6.2	2.3	9.2	4.9	2.6	6.1	6.5	5.4	8.2	9.3	10.2	12.3	14.1	11.6	12.6	6.3	6.3	8.2	7.3	5.4	7.5	7.8	7.9	7.4
14		7.8	7.0	6.4	6.0	5.8	4.5	5.4	8.2	10.3	9.8	11.6	11.9	14.0	15.2	13.2	10.5	9.2	9.1	9.1	8.8	7.7	5.0	7.0	7.9	8.8
15 q		9.4	8.0	6.6	5.7	6.4	6.8	6.2	6.4	6.3	7.2	8.5	10.8	12.5	13.1	11.7	10.7	10.4	9.3	6.0	2.2	1.0	6.6	7.5	7.9	7.8
16		8.7	6.1	3.1	5.0	5.5	4.3	5.8	4.8	5.2	6.8	9.0	12.9	15.9	16.9	16.4	13.7	10.0	9.2	8.5	8.3	7.8	6.1	2.1	-0.4	8.0
17		1.7	4.8	8.7	4.6	11.6	13.9	11.6	13.6	10.2	9.5	9.5	13.5	14.6	13.8	12.9	11.3	9.6	8.6	7.7	6.1	4.1	2.7	0.1	4.1	8.7
18		6.5	7.8	8.7	6.1	2.0	3.0	4.6	5.5	6.8	7.8	10.2	13.1	15.4	14.0	14.0	13.5	10.5	10.0	7.9	6.8	6.7	6.9	7.3	7.8	8.5
19		8.5	6.5	7.0	6.3	5.2	3.8	3.7	3.7	4.1	5.7	8.8	11.2	13.8	15.1	14.5	12.3	8.7	8.5	8.5	7.9	7.0	6.2	7.1	6.0	7.9
20		-2.3	4.2	5.9	8.9	5.5	4.1	4.0	4.5	6.1	10.5	11.0	12.1	13.9	14.0	12.9	11.1	9.7	9.2	9.0	8.8	7.6	8.0	4.3	5.8	7.9
21 q		6.8	6.0	6.6	6.8	6.1	5.4	4.4	3.7	4.4	6.0	7.7	9.7	11.1	11.6	10.9	9.5	8.6	8.7	8.7	8.1	7.3	6.8	7.7	8.2	7.5
22		11.4	2.0	1.2	-3.9	2.0	4.1	4.1	3.9	4.9	6.1	8.3	10.6	12.1	12.6	12.4	10.9	9.6	9.2	9.8	10.9	10.6	8.2	7.3	7.9	7.3
23		7.7	7.1	6.1	6.5	5.9	4.8	6.5	7.1	5.7	10.3	14.0	11.2	11.7	13.4	12.4	10.7	9.3	8.8	8.9	3.2	1.9	1.5	3.5	1.9	7.5
24		6.9	2.3	3.0	3.5	4.2	3.8	3.0	2.1	3.4	5.8	8.3	10.9	11.6	11.9	11.3	9.8	9.4	7.6	3.2	9.0	9.7	8.9	7.9	7.5	6.9
25 q		6.8	8.5	7.1	6.1	5.4	5.0	4.9	4.9	5.4	6.4	7.8	9.0	10.4	11.0	11.0	10.1	9.2	8.4	8.8	9.2	9.1	7.0	6.1	6.5	7.7
26 q		5.9	6.0	6.6	5.7	5.5	5.0	4.8	4.2	4.8	5.4	7.6	9.9	10.9	10.8	10.4	10.5	10.5	10.1	10.0	9.8	9.6	8.9	7.8	6.1	7.8
27 d		5.7	6.9	7.4	4.2	0.5	2.5	3.7	4.3	4.1	7.3	11.8	13.4	15.4	15.5	13.3	15.2	6.3	4.4	1.5	4.4	-1.1	5.6	4.2	7.0	6.8
28		5.5	7.8	5.8	4.9	9.7	7.1	17.0	13.9	11.6	8.3	9.7	9.7	10.9	12.0	10.7	9.7	8.9	7.7	-1.5	-8.1	1.4	3.5	3.8	2.3	7.2
29 d		0.3	1.8	8.2	1.8	4.0	4.2	4.9	6.7	6.0	5.4	6.1	7.9	10.0	11.1	14.1	16.5	16.0	13.3	8.0	8.9	2.6	-4.4	-5.7	-5.9	5.9
30 d		-7.5	5.3	4.7	5.4	7.5	26.2	41.5	21.7	9.2	7.5	8.6	8.5	11.7	10.8	11.0	9.3	3.7	0.6	-4.7	-7.3	-10.8	-9.6	1.2	0.2	6.4
Mean		5.1	6.3	6.6	5.4	5.0	5.6	6.8	6.8	6.4	7.6	9.9	11.8	13.7	13.9	13.1	11.5	9.0	8.2	7.2	6.3	5.9	5.6	5.8	5.0	7.8

TERRESTRIAL MAGNETIC FORCE: VERTICAL COMPONENT
Mean values for periods of sixty minutes ending at exact hours, G.M.T.

29

43 LERWICK (Z)		46,000γ (0.46 C.G.S. unit) +																						SEPTEMBER 1955				
	Hour G.M.T.		2-3	3-4	4-5	5-6	6-7	7-8	8-9	9-10	10-11	11-12	12-13	13-14	14-15	15-16	16-17	17-18	18-19	19-20	20-21	21-22	22-23	23-24	Mean			
	0-1	1-2																										
	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ			
1	1131	1146	1154	1159	1158	1158	1158	1156	1160	1154	1150	1150	1150	1161	1172	1182	1203	1198	1193	1172	1132	1154	1161	1152	1161			
2	1139	1129	1107	1055	1084	1103	1109	1122	1133	1139	1156	1165	1165	1172	1172	1182	1192	1196	1196	1185	1174	1165	1156	1142	1138			
3	1139	1143	1121	1105	1133	1144	1150	1156	1160	1151	1150	1170	1170	1178	1160	1159	1163	1164	1161	1162	1164	1158	1151	1145	1136			
4	1054	1086	1126	1128	1120	1144	1148	1152	1155	1160	1158	1158	1158	1157	1153	1162	1200	1205	1185	1178	1168	1160	1120	1111	1106			
5 d	1052	1043	1064	1128	1141	1144	1105	1105	1116	1145	1164	1160	1160	1182	1186	1184	1185	1186	1196	1198	1169	1158	1159	1153	1136			
6	1118	1125	1138	1143	1118	1120	1137	1150	1156	1152	1158	1161	1161	1165	1168	1165	1174	1174	1174	1189	1190	1177	1166	1156	1126			
7	1095	1107	1124	1150	1157	1159	1164	1168	1171	1172	1163	1155	1155	1153	1155	1156	1162	1164	1163	1160	1162	1162	1163	1163	1159			
8	1156	1156	1155	1156	1157	1160	1162	1164	1163	1163	1159	1152	1152	1150	1155	1170	1188	1207	1201	1178	1167	1165	1162	1159	1138			
9	1153	1143	1114	1119	1139	1151	1156	1159	1160	1161	1159	1155	1155	1150	1153	1154	1157	1165	1165	1163	1162	1162	1162	1159	1159			
10	1156	1154	1154	1151	1151	1151	1148	1152	1149	1156	1162	1163	1163	1160	1156	1163	1171	1166	1161	1162	1162	1163	1163	1162	1161			
11 q	1154	1147	1140	1145	1147	1148	1151	1149	1153	1157	1158	1158	1158	1156	1158	1157	1158	1162	1161	1157	1158	1159	1160	1159	1153			
12	1143	1138	1145	1144	1149	1142	1158	1130	1131	1145	1154	1163	1163	1166	1182	1196	1204	1194	1179	1167	1160	1156	1158	1155	1137			
13 d	1085	1060	1048	1048	1070	1089	1116	1145	1156	1156	1166	1176	1176	1173	1181	1212	1232	1261	1235	1211	1194	1187	1174	1167	1165			
14	1166	1167	1165	1164	1164	1164	1163	1158	1156	1156	1162	1170	1170	1171	1166	1172	1181	1173	1165	1162	1160	1163	1164	1162	1158			
15 q	1154	1148	1154	1154	1157	1156	1155	1154	1155	1156	1156	1158	1158	1157	1156	1163	1165	1165	1162	1162	1171	1168	1161	1161	1160			
16	1153	1131	1130	1147	1152	1153	1155	1153	1155	1158	1164	1167	1167	1162	1169	1182	1187	1182	1175	1167	1163	1160	1161	1159	1141			
17	1126	1137	1133	1132	1107	1092	1108	1115	1123	1139	1143	1145	1145	1158	1167	1168	1170	1169	1166	1168	1173	1174	1169	1156	1138			
18	1143	1141	1133	1132	1137	1145	1151	1154	1157	1162	1159	1160	1160	1166	1169	1170	1177	1195	1201	1211	1190	1172	1163	1159	1158			
19	1143	1121	1141	1144	1147	1154	1158	1160	1162	1161	1161	1161	1161	1162	1160	1172	1181	1179	1178	1172	1169	1170	1165	1160	1150			
20	1114	1126	1145	1142	1145	1152	1156	1159	1161	1160	1155	1154	1154	1152	1148	1150	1154	1158	1161	1160	1160	1168	1153	1147	1152			
21 q	1153	1154	1156	1159	1159	1161	1164	1164	1164	1162	1154	1148	1148	1147	1150	1154	1156	1160	1159	1160	1165	1166	1162	1158	1152			
22	1126	1128	1088	1115	1141	1152	1156	1156	1157	1152	1146	1146	1146	1146	1149	1149	1152	1154	1156	1154	1160	1172	1179	1168	1160			
23	1157	1157	1160	1163	1160	1163	1160	1157	1160	1163	1154	1154	1154	1156	1157	1160	1164	1171	1184	1195	1209	1176	1161	1097	1074			
24	1065	1077	1124	1142	1151	1157	1161	1164	1164	1163	1157	1154	1154	1152	1151	1156	1156	1159	1170	1184	1177	1166	1163	1163	1161			
25 q	1158	1156	1144	1146	1152	1156	1158	1160	1162	1163	1159	1156	1156	1154	1153	1156	1159	1159	1160	1159	1158	1159	1155	1156	1158			
26 q	1158	1159	1155	1155	1155	1158	1158	1160	1160	1159	1158	1152	1152	1150	1149	1151	1152	1151	1152	1154	1155	1157	1160	1161	1159			
27 d	1159	1160	1141	1126	1125	1134	1136	1142	1146	1153	1148	1153	1153	1158	1169	1182	1179	1218	1211	1229	1193	1186	1123	1150	1148			
28	1136	1146	1150	1143	1097	1085	1098	1109	1130	1148	1157	1159	1159	1163	1168	1172	1171	1170	1176	1194	1189	1176	1162	1145	1126			
29 d	1120	1113	1089	1118	1130	1135	1141	1144	1149	1155	1159	1156	1156	1158	1159	1162	1176	1229	1271	1255	1260	1218	1156	1128	1116			
30 d	1113	1099	1137	1158	1143	1088	1028	1059	1124	1142	1165	1216	1216	1208	1223	1193	1196	1199	1198	1191	1163	1137	1129	1088	1054			
Mean	1131	1130	1131	1136	1138	1141	1142	1146	1152	1155	1157	1160	1160	1161	1163	1168	1175	1181	1181	1180	1174	1166	1158	1150	1141			

DAILY EXTREMES OF TERRESTRIAL MAGNETIC ELEMENTS, MAGNETIC CHARACTER FIGURES AND TEMPERATURE IN MAGNET HOUSE

44	LERWICK											SEPTEMBER 1955								
TERRESTRIAL MAGNETIC ELEMENTS																				
Horizontal force						Declination			Vertical force			3-hr. range indices K	Sum of K indices	Magnetic character of day (0-2)	Temperature in magnet house 200 +					
Maximum 14,000γ +		Minimum 14,000γ +		Range	Maximum 10° +	Minimum 10° +		Range	Maximum 46,000γ +		Minimum 46,000γ +					Range				
	h. m.	γ	γ	h. m.	γ	h. m.	γ	h. m.	γ	h. m.	γ	γ	h. m.	γ		°A.				
1	19 51	514	438	08 47	76	14 13	18.6	-17.9	19 46	36.5	16 40	1207	1114	20 22	93	2,1,2,2,2,3,4,2	18	1	88.0	
2	15 26	507	408	11 21	99	12 55	19.7	-1.8	04 25	21.5	15 58	1206	1044	03 35	162	3,3,2,3,3,3,2,2	21	1	87.4	
3	20 58	497	394	10 59	103	02 32	18.1	0.4	05 03	17.7	12 32	1185	1085	03 03	100	3,3,2,3,3,1,2,2	19	1	87.8	
4	14 50	512	393	10 04	119	12 57	20.2	-12.6	21 24	32.8	15 48	1218	1011	00 38	207	4,3,3,3,3,4,2,4	26	1	87.7	
5 d	19 18	516	390	06 03	126	07 13	18.5	-4.1	00 12	22.6	13 01	1205	1018	00 42	187	4,4,3,3,3,3,3,2	25	1	87.8	
6	17 48	504	414	11 00	90	23 52	17.3	-7.2	19 37	24.5	18 55	1195	1093	24 00	102	2,2,2,2,2,3,3,3	19	1	87.8	
7	20 44	487	418	09 53	69	13 24	15.7	1.7	04 38	14.0	09 10	1174	1090	00 10	84	3,1,2,2,2,2,1,1	14	0	87.8	
8	23 08	499	425	10 56	74	14 01	19.2	2.5	23 59	16.7	16 50	1212	1128	23 22	84	0,1,1,2,2,3,2,2	13	0	87.9	
9	19 58	488	431	10 21	57	01 44	13.9	1.8	07 32	12.1	16 53	1168	1105	03 11	63	3,3,1,1,1,1,1,2	13	0	88.0	
10	15 20	485	438	11 46	47	12 13	13.4	5.5	00 22	7.9	15 43	1172	1145	06 07	27	1,1,2,2,1,2,1,1	11	0	88.0	
11 q	18 58	497	446	11 52	51	13 03	14.9	1.3	23 59	13.6	16 53	1165	1134	02 16	31	2,1,1,1,2,2,1,2	12	0	88.0	
12	05 27	496	420	06 48	76	07 11	19.4	-10.5	23 52	29.9	15 17	1206	1110	24 00	96	2,2,3,2,3,2,1,4	19	1	87.7	
13 d	15 23	511	389	01 06	122	15 36	16.3	-6.1	00 01	22.4	16 07	1271	1035	03 40	236	4,3,3,3,3,3,3,1	23	1	87.4	
14	21 12	484	416	11 03	68	13 26	15.9	2.5	21 25	13.4	15 44	1183	1151	08 52	32	1,1,2,2,2,2,1,2	13	0	87.2	
15 q	19 13	500	443	10 29	57	13 03	13.3	-4.5	19 06	17.8	18 56	1179	1146	01 25	33	2,1,0,1,2,2,3,1	12	0	86.8	
16	22 50	495	423	10 36	72	13 40	17.3	-2.6	23 12	19.9	15 33	1188	1125	02 08	63	3,2,2,1,3,1,0,2	14	0	87.0	
17	17 15	493	440	10 57	53	05 10	16.4	-1.6	22 07	18.0	19 52	1180	1087	05 20	93	3,3,3,2,2,2,2,2	19	1	86.9	
18	16 07	495	434	09 27	61	13 00	16.3	1.2	04 31	15.1	18 10	1216	1128	02 48	88	1,2,1,2,2,2,3,1	14	1	86.7	
19	23 58	495	418	11 33	77	13 28	15.7	1.3	23 59	14.4	15 12	1182	1113	01 33	69	3,2,2,1,2,1,1,2	14	1	86.7	
20	21 50	500	431	09 19	69	13 04	14.5	-3.8	00 22	18.3	20 25	1171	1111	00 43	60	3,2,2,2,1,1,1,2	14	0	86.9	
21 q	22 40	488	433	09 58	55	13 20	12.2	3.4	07 37	8.8	20 23	1168	1141	24 00	27	1,1,1,1,1,1,1,3	10	0	87.1	
22	19 04	502	429	02 04	73	00 11	15.9	-6.6	03 07	22.5	21 20	1180	1068	02 38	112	3,3,1,1,1,1,2,2	14	1	87.3	
23	18 31	486	422	09 32	64	13 03	15.7	-1.1	20 44	16.8	19 10	1228	1066	23 44	162	1,1,2,3,2,2,3,4	18	1	87.6	
24	18 12	492	443	11 02	49	13 39	12.8	-1.4	00 06	14.2	18 03	1188	1051	00 41	137	4,2,1,1,1,2,3,0	14	0	87.8	
25 q	21 42	500	437	11 35	63	14 09	11.3	4.5	07 34	6.8	09 32	1164	1143	02 10	21	1,1,1,1,1,1,0,2	8	0	87.4	
26 q	20 14	491	446	10 44	45	12 42	11.4	4.0	07 40	7.4	23 17	1162	1148	13 14	14	1,1,0,0,1,1,1,1	6	0	87.1	
27 d	18 28	591	420	12 04	171	13 12	17.2	-16.9	18 36	34.1	18 28	1305	1104	21 28	201	2,2,2,3,3,4,5,4	25	1	86.8	
28	18 55	500	433	09 10	67	06 35	19.0	-13.5	18 51	32.5	18 44	1210	1080	05 10	130	2,3,3,2,2,2,4,3	21	1	86.8	
29 d	17 47	929	426	01 45	503	16 08	20.4	-16.0	22 54	36.4	17 47	1372	1076	02 32	296	3,2,1,2,2,7,4,4	25	1	86.8	
30 d	13 27	512	358	06 15	154	06 18	46.9	-17.7	20 09	64.6	11 50	1237	1003	06 27	234	4,5,5,4,4,4,4,4	34	1	86.7	
Mean	-	-	516	422	-	94	-	-	17.2	-3.9	-	-	1203	1095	-	108	-	-	0.57	87.4

TERRESTRIAL MAGNETIC FORCE: HORIZONTAL COMPONENT
Mean values for periods of sixty minutes ending at exact hours, G.M.T.

45 LERWICK (H)												14,000γ (0·14 C.G.S. unit) +												OCTOBER 1955												Mean
	Hour G.M.T.																																			
	0-1	1-2	2-3	3-4	4-5	5-6	6-7	7-8	8-9	9-10	10-11	11-12	12-13	13-14	14-15	15-16	16-17	17-18	18-19	19-20	20-21	21-22	22-23	23-24												
	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ												
1	457	460	461	460	463	467	464	457	448	445	433	447	446	451	451	464	465	470	471	470	470	474	473	475	460											
2	469	464	460	471	475	475	475	467	449	437	442	435	439	429	460	457	476	486	464	473	477	471	471	471	462											
3	466	463	435	433	471	480	461	469	451	437	441	469	444	457	462	442	461	465	467	473	473	471	469	473	460											
4	476	469	471	459	462	480	485	471	459	452	413	419	435	442	449	457	465	471	473	472	466	469	467	473	461											
5 d	474	473	465	467	474	474	478	475	459	446	429	439	429	433	451	465	499	484	496	459	407	388	339	447	452											
6 d	460	458	402	427	474	471	472	467	437	405	408	424	440	444	459	477	485	486	465	465	463	466	464	466	454											
7	464	462	462	464	467	471	469	462	455	439	434	431	433	447	463	471	466	471	478	478	473	474	472	488	462											
8	481	491	491	492	494	489	492	477	468	457	443	440	442	447	459	465	475	477	487	485	486	487	479	476	474											
9	472	471	476	472	476	476	478	476	466	451	442	439	443	448	458	469	478	483	482	481	479	508	492	463	470											
10	468	474	476	474	478	488	488	486	476	444	439	438	438	427	456	463	466	469	480	477	476	479	477	476	467											
11	475	474	473	472	471	472	468	455	430	424	417	424	427	439	469	460	462	461	470	469	470	472	471	470	458											
12 q	469	469	469	469	470	469	469	468	462	453	447	444	445	449	453	457	464	468	472	475	474	472	467	469	463											
13 q	468	470	471	471	472	474	474	474	469	462	452	447	447	455	459	464	469	470	472	466	457	464	472	471	465											
14	471	471	472	474	475	477	482	476	466	466	457	457	459	458	462	468	471	476	473	474	477	476	482	478	471											
15	474	474	475	471	479	481	478	475	469	463	457	453	458	463	468	469	473	476	479	482	484	483	482	475	473											
16	467	468	473	476	481	484	485	477	469	462	457	458	463	468	472	474	479	486	489	490	490	487	485	482	476											
17	480	473	476	482	482	485	487	486	484	475	468	462	460	464	469	476	479	484	491	489	488	489	488	486	479											
18 q	481	481	479	480	479	479	476	472	463	454	450	453	462	472	477	479	481	482	483	482	483	484	484	482	475											
19 q	481	478	479	480	481	479	477	473	466	456	452	456	465	473	479	481	484	484	484	486	487	484	484	487	477											
20	482	484	479	482	485	484	483	482	464	449	458	462	472	471	476	474	462	470	478	474	472	478	475	477	474											
21	475	475	475	475	475	475	473	469	469	463	458	453	456	465	469	469	473	472	474	474	469	472	470	469	469											
22	472	471	472	476	478	479	478	476	475	460	450	443	454	454	455	462	457	465	463	468	478	478	476	474	467											
23	471	470	474	472	473	474	476	471	461	453	448	452	445	453	467	475	473	475	473	478	481	480	480	478	469											
24 q	478	477	476	475	478	479	480	475	470	460	453	451	453	459	465	471	476	478	482	481	484	482	480	475	472											
25 d	455	446	451	465	493	494	489	445	427	449	423	452	496	523	468	526	517	509	478	449	437	428	429	384	464											
26 d	296	394	445	398	359	448	450	452	445	432	436	424	453	459	455	455	472	472	444	424	418	451	450	445	432											
27	462	458	454	439	448	458	458	456	444	446	442	445	452	453	454	447	461	461	462	460	468	474	462	459	455											
28	461	457	460	454	460	465	468	462	459	447	438	444	451	451	465	447	459	463	462	466	469	460	464	465	458											
29	466	465	463	469	471	462	458	458	461	455	455	455	451	455	464	467	454	463	469	454	459	468	458	465	461											
30	465	465	465	466	466	466	465	462	459	454	450	450	447	456	462	467	474	458	449	457	452	465	465	465	460											
31 d	463	462	453	467	475	469	455	458	460	458	461	460	468	467	470	482	459	471	470	483	480	361	411	426	458											
Mean	464	467	466	466	470	475	474	469	459	450	444	446	451	456	463	468	472	474	474	471	469	468	466	467	465											

MAGNETIC DECLINATION (WEST)
Mean values for periods of sixty minutes ending at exact hours, G.M.T.

46	LERWICK (D)												10° +												OCTOBER 1955													
	Hour G.M.T.																																					
	0-1	1-2	2-3	3-4	4-5	5-6	6-7	7-8	8-9	9-10	10-11	11-12	12-13	13-14	14-15	15-16	16-17	17-18	18-19	19-20	20-21	21-22	22-23	23-24	Mean													
1	5·4	4·1	4·6	5·5	5·9	5·9	4·9	5·2	5·3	6·3	6·1	7·4	10·3	12·1	11·1	11·0	10·5	8·5	8·5	6·1	4·4	4·9	5·1	5·1	6·8													
2	7·8	6·8	7·0	7·4	6·1	5·9	5·6	5·1	6·1	5·2	5·5	10·2	12·7	13·8	14·6	6·5	11·9	-4·2	5·9	-5·5	2·4	7·3	4·7	5·4	6·5													
3	7·8	8·5	8·1	12·1	8·7	6·8	6·4	6·1	8·1	8·8	10·2	11·3	13·1	12·9	13·1	10·9	3·9	5·5	8·9	8·5	7·7	7·3	6·3	6·2	8·6													
4	5·4	5·2	5·1	6·1	9·2	8·1	7·3	5·2	3·5	6·1	9·1	11·6	13·7	14·5	13·5	11·3	9·5	8·2	7·3	7·1	4·4	5·2	4·4	3·7	7·7													
5 d	4·8	6·3	6·0	6·2	5·9	4·9	3·5	3·0	2·4	3·5	5·9	11·1	13·7	15·0	15·9	8·9	9·1	7·3	8·7	4·0	-0·2	-9·9	-19·4	0·9	4·9													
6 d	3·6	5·4	10·9	11·1	5·9	7·3	5·1	3·8	2·8	4·3	8·1	10·3	12·6	14·8	15·7	13·1	8·0	6·7	10·6	8·1	4·9	4·9	5·7	5·4	7·9													
7	4·3	4·9	4·8	7·6	6·2	5·2	4·9	4·9	4·6	4·9	7·7	11·9	15·9	17·9	15·9	15·5	11·8	9·2	8·5	8·7	8·1	8·5	3·4	4·9	8·3													
8	7·3	7·5	6·3	6·6	6·8	5·5	5·9	7·1	8·3	6·6	8·4	11·1	14·1	13·9	12·7	10·5	9·2	9·0	10·2	9·9	9·1	8·5	6·2	4·9	8·6													
9	6·6	5·4	4·6	5·2	5·1	5·1	5·2	4·7	3·9	4·4	7·0	9·7	12·1	12·9	12·7	11·6	10·9	11·6	10·8	9·9	8·5	-4·3	-3·5	-3·5	6·5													
10	0·1	6·3	5·9	4·9	6·8	4·9	6·6	5·8	4·9	6·3	9·7	10·9	15·7	10·9	11·3	11·4	8·4	-0·9	5·9	8·3	7·6	7·3	6·1	6·8	7·2													
11	7·1	7·0	6·9	7·5	7·6	7·0	7·4	8·3	7·3	8·3	10·3	11·9	13·3	11·8	8·7	9·5	3·2	6·8	4·9	7·0	7·6	7·5	7·5	7·4	8·0													
12 q	7·3	7·2	7·0	6·8	6·8	6·1	5·5	4·9	3·5	3·5	5·1	7·8	9·7	10·3	10·2	9·2	7·8	6·8	7·0	7·1	7·8	7·8	7·3	7·6	7·1													
13 q	8·0	7·0	7·3	7·3	7·3	7·3	6·4	4·9	3·6	3·7	6·8	10·0	11·2	11·6	10·9	9·0	7·8	7·8	7·5	7·8	4·1	5·4	7·3	7·6	7·4													
14	5·9	7·5	8·4	8·1	7·2	7·1	9·3	9·4	10·2	9·7	10·9	12·1	13·1	13·0	11·1	9·8	9·1	8·3	7·2	8·3	7·3	6·8	5·1	6·1	8·8													
15	6·1	6·3	6·1	7·1	7·0	6·4	6·6	6·7	5·9	4·7	6·3	8·5	10·7	10·9	10·9	9·9	9·0	8·4	8·2	7·6	7·6	7·3	7·3	6·3	7·3													
16	-5·0	0·7	3·4	4·5	5·4	5·1	5·9	5·7	4·7	4·2	6·1	8·7	10·5	10·9	11·1	9·7	8·7	8·8	8·9	8·5	8·3	8·0	4·5	5·6	6·4													
17	6·2	5·4	6·4	5·0	4·7	5·4	5·2	5·2	5·0	5·5	7·2	9·7	10·5	10·9	10·9	9·9	9·0	8·5	8·9	8·5	8·0	7·8	7·5	7·2	7·4													
18 q	6·8	6·5	6·3	6·4	6·3	6·3	5·9	4·9	4·2	4·8	6·6	9·2	10·8	11·0	10·7	9·7	9·2	8·7	8·3	7·8	7·3	7·2	6·9	6·7	7·4													
19 q	6·3	5·8	6·5	6·8	6·8	6·7	6·3	5·7	4·9	5·6	8·4	11·2	12·5	11·9	10·7	9·1	8·3	8·4	8·3	8·2	8·0	7·4	7·0	7·0	7·9													
20	6·6	6·2	5·7	6·8	5·8	5·1	5·8	5·3	7·3	10·0	12·6	13·7	14·7	15·0	15·0	14·9	12·2	10·1	9·0	8·0	6·2	6·3	6·3	6·5	9·0													
21	6·4	6·5	6·2	6·3	6·6	6·2	6·3	7·0	6·2	7·2	9·4	11·5	12·8	13·1	12·9	10·6	10·5	10·1	8·7	7·6	7·1	-0·2	2·0	3·0	7·7													
22	4·6	5·1	5·9	6·1	5·9	5·6	6·1	5·6	5·2	6·8	9·0	11·0	14·5	16·6	17·9	14·2	13·9	11·6	8·7	6·1	6·3	6·5	6·8	7·1	8·6													
23	6·3	7·7	3·7	5·3	6·3	6·4	6·1	5·4	4·7	5·7	7·8	11·8	12·6	11·8	11·6	11·1	10·2	9·5	8·7	9·0	8·4	7·4	6·8	6·8	8·0													
24 q	6·8	6·5	6·8	7·1	6·9	6·8	6·2	5·5	4·9	4·4	6·4	8·8	11·3	10·9	10·3	9·3	9·3	9·2	9·1	8·5	8·3	8·1	6·7	3·2	7·6													
25 d	-1·0	4·4	-8·8	-3·7	1·5	3·5	8·7	9·2	8·7	10·7	8·7	19·2	19·1	20·5	25·5	22·7	-0·9	-6·8	4·4	-2·3	-1·8	4·2	-2·8	3·3	6·1													
26 d	8·3	-6·6	-2·8	-3·1	2·0	3·9	6·0	3·0	3·5	3·7	7·5	7·3	8·9	14·3	9·5	10·9	-2·3	-11·4	-14·0	-6·6	4·7	3·5	7·3	6·1	2·7													
27	5·1	4·9	6·3	8·0	6·8	6·3	6·1	6·1	6·4	8·5	10·9	11·3	11·6	12·1	10·7	6·8	-0·4	2·3	6·5	4·2	4·2	1·3	4·6	5·4	6·5													
28	5·4	5·9	5·9	5·2	5·6	5·4	5·4	5·6	6·5	8·2	10·1	12·3	13·5	14·2	14·0	9·8	8·2	6·8	6·1	6·2	6·3	3·2	4·6	4·1	7·4													
29	6·1	6·1	6·4	7·3	4·2	4·2	5·1	5·1	5·5	5·7	7·2	10·5	9·6	10·5	11·1	10·7	10·7	8·7	1·1	2·3	6·1	3·3	0·8	6·1	6·4													
30	5·6	5·5	5·8	5·5	5·9	5·7	5·4	5·3	5·1	5·2	8·0	10·9	11·3	10·9	10·5	9·2	8·3	2·0	-2·1	-0·7	1·1	4·4	5·4	6·1	5·8													
31 d	6·1	10·0	8·7	8·4	8·6	6·6	6·8	9·0	8·7	7·3	9·2	10·5	13·8	16·1	18·3	21·2	17·0	11·6	11·9	8·5	-7·2	-10·5	-7·3	0·6	8·1													
Mean	5·4	5·7	5·5	6·2	6·2	5·9	6·1	5·8	5·5	6·1	8·1	10·8	12·6	13·1	12·9	11·2	8·5	6·4	6·9	6·0	5·6	4·6	3·9	5·0	7·2													

47 LERWICK (Z)		46,000γ (0.46 C.G.S. unit) +																			OCTOBER 1955				
	Hour G.M.T.		2-3	3-4	4-5	5-6	6-7	7-8	8-9	9-10	10-11	11-12	12-13	13-14	14-15	15-16	16-17	17-18	18-19	19-20	20-21	21-22	22-23	23-24	Mean
	0-1	1-2																							
	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	
1	1081	1137	1155	1161	1162	1161	1164	1164	1165	1164	1170	1174	1173	1168	1176	1173	1169	1167	1167	1172	1176	1162	1164	1161	1162
2	1145	1143	1148	1145	1152	1157	1158	1162	1163	1165	1164	1162	1165	1168	1184	1214	1211	1225	1209	1196	1141	1151	1153	1152	1168
3	1151	1156	1143	1134	1143	1151	1156	1156	1160	1164	1165	1171	1169	1166	1169	1182	1206	1211	1187	1174	1167	1166	1164	1161	1165
4	1154	1148	1140	1147	1144	1136	1142	1153	1160	1162	1172	1169	1164	1166	1171	1173	1174	1172	1172	1174	1178	1169	1158	1146	1160
5 d	1133	1144	1151	1155	1157	1164	1168	1168	1169	1167	1167	1158	1165	1169	1171	1208	1215	1242	1274	1133	1087	1070	1001	1084	1155
6 d	1117	1141	1127	1084	1114	1135	1153	1164	1176	1186	1179	1167	1162	1166	1184	1208	1229	1223	1204	1197	1188	1175	1167	1158	1167
7	1146	1145	1152	1159	1166	1167	1169	1171	1173	1176	1174	1171	1170	1166	1169	1175	1180	1177	1173	1174	1175	1166	1167	1155	1167
8	1158	1158	1162	1158	1157	1158	1159	1166	1161	1159	1158	1157	1153	1153	1156	1160	1161	1161	1160	1161	1163	1163	1168	1168	1160
9	1164	1161	1155	1158	1158	1161	1161	1164	1169	1170	1169	1165	1161	1157	1156	1159	1160	1162	1164	1166	1169	1142	1101	1093	1156
10	1116	1141	1151	1155	1155	1150	1150	1151	1154	1166	1169	1170	1172	1180	1176	1184	1189	1192	1174	1168	1166	1161	1160	1163	1163
11	1164	1163	1162	1161	1160	1159	1161	1163	1169	1185	1187	1186	1188	1195	1212	1205	1202	1184	1172	1167	1164	1164	1164	1167	1175
12 q	1167	1167	1165	1165	1163	1162	1162	1162	1164	1162	1161	1161	1162	1163	1164	1165	1164	1164	1161	1160	1161	1162	1166	1166	1163
13 q	1165	1167	1165	1164	1163	1161	1159	1161	1162	1161	1161	1161	1160	1161	1165	1169	1171	1167	1164	1167	1171	1171	1163	1161	1164
14	1156	1158	1155	1151	1154	1153	1144	1142	1145	1145	1148	1152	1156	1161	1163	1167	1165	1164	1165	1164	1161	1161	1156	1155	1156
15	1160	1163	1162	1162	1155	1153	1153	1153	1155	1156	1156	1156	1154	1155	1158	1163	1164	1162	1161	1158	1157	1159	1157	1133	1157
16	1134	1145	1153	1158	1158	1158	1156	1158	1159	1159	1157	1153	1151	1152	1153	1158	1158	1157	1155	1155	1155	1155	1155	1158	1155
17	1157	1158	1149	1145	1151	1152	1152	1153	1151	1151	1149	1149	1151	1151	1155	1158	1158	1158	1156	1158	1156	1155	1155	1157	1154
18 q	1160	1161	1162	1163	1162	1162	1162	1163	1164	1161	1153	1150	1149	1151	1155	1158	1158	1157	1156	1156	1155	1155	1155	1155	1158
19 q	1156	1158	1158	1159	1158	1159	1159	1160	1161	1157	1152	1146	1144	1146	1152	1156	1156	1157	1157	1156	1155	1158	1155	1156	1155
20	1156	1157	1158	1152	1152	1155	1156	1156	1158	1160	1152	1146	1150	1160	1166	1176	1183	1181	1179	1181	1181	1168	1166	1162	1163
21	1161	1161	1161	1161	1161	1162	1162	1162	1161	1161	1156	1153	1152	1152	1158	1164	1169	1172	1173	1172	1176	1172	1161	1153	1162
22	1156	1158	1159	1159	1159	1159	1159	1161	1161	1164	1160	1160	1159	1168	1182	1189	1198	1201	1214	1199	1179	1170	1165	1160	1171
23	1147	1141	1140	1151	1155	1159	1161	1165	1169	1168	1162	1159	1162	1158	1162	1166	1167	1165	1167	1164	1164	1164	1164	1164	1160
24 q	1161	1160	1159	1159	1158	1158	1158	1161	1163	1163	1161	1159	1157	1156	1158	1160	1158	1158	1157	1159	1159	1161	1161	1162	1159
25 d	1152	1083	1071	1097	1092	1106	1116	1120	1124	1133	1169	1201	1231	1284	1259	1283	1336	1325	1289	1216	1063	1064	1123	1030	1165
26 d	932	1037	1105	1094	1072	1116	1146	1174	1179	1187	1188	1207	1192	1191	1200	1192	1204	1199	1204	1148	1082	1113	1119	1099	1141
27	1135	1149	1156	1157	1143	1148	1155	1161	1172	1177	1174	1178	1181	1181	1187	1190	1199	1191	1182	1182	1168	1138	1156	1161	1168
28	1156	1162	1162	1164	1163	1163	1162	1165	1166	1171	1175	1177	1187	1199	1210	1207	1188	1176	1173	1170	1169	1176	1173	1169	1174
29	1170	1171	1170	1161	1151	1151	1155	1159	1160	1165	1168	1169	1176	1179	1181	1191	1191	1195	1207	1192	1183	1167	1151	1162	1172
30	1169	1171	1172	1171	1170	1169	1167	1165	1164	1163	1162	1166	1174	1174	1171	1172	1172	1194	1205	1194	1180	1175	1174	1172	1174
31 d	1170	1155	1109	1093	1077	1102	1132	1146	1149	1150	1151	1157	1166	1179	1195	1213	1220	1199	1202	1221	1187	1115	1105	1110	1154
Mean	1144	1149	1150	1148	1148	1152	1155	1159	1161	1164	1164	1165	1166	1170	1175	1182	1186	1186	1183	1173	1159	1153	1150	1147	1162

DAILY EXTREMES OF TERRESTRIAL MAGNETIC ELEMENTS, MAGNETIC CHARACTER FIGURES AND TEMPERATURE IN MAGNET HOUSE

48 LERWICK		TERRESTRIAL MAGNETIC ELEMENTS											3-hr. range indices K	Sum of K indices	Magnetic character of day (0-2)	Temperature in magnet house 200 +
Horizontal force			Declination			Vertical force										
Maximum 14,000γ +	Minimum 14,000γ +	Range	Maximum 10° +	Minimum 10° +	Range	Maximum 46,000γ +	Minimum 46,000γ +	Range								
	h. m. γ	γ h. m.	γ	h. m. γ	γ h. m.	γ	h. m. γ	γ h. m.	γ							
1	20 54 490	413 10 39	77	14 00 13.8	-1.4 20 51	15.2	19 59 1184	1040 00 00	144	4,1,1,3,2,1,3,2	17	0	88.0			
2	19 55 515	421 13 06	94	14 07 16.6	-19.5 19 48	36.1	17 08 1247	1130 00 45	117	3,1,2,2,3,4,4,1	20	1	86.8			
3	05 18 486	407 03 07	79	14 59 13.9	-4.5 16 50	18.4	16 55 1222	1131 02 56	91	3,3,2,2,2,3,2,1	18	1	86.8			
4	06 13 490	405 10 35	85	13 47 15.2	1.5 08 54	13.7	20 32 1179	1133 05 06	46	2,3,2,3,1,1,1,2	15	0	86.6			
5 d	19 39 530	212 22 08	318	19 54 45.2	-33.7 22 25	78.9	18 33 1293	953 19 51	340	2,2,1,2,3,4,6,6	26	1	86.3			
6 d	17 06 516	367 03 04	149	02 48 20.4	-6.1 17 03	26.5	16 47 1248	1067 03 02	181	4,4,3,2,2,4,2,2	23	1	83.7			
7	23 02 503	425 11 50	78	12 57 18.1	2.0 00 29	16.1	16 23 1182	1143 01 00	39	1,1,1,1,2,2,1,3	12	0	83.5			
8	04 04 501	435 11 27	66	12 58 14.9	3.2 23 11	11.7	22 39 1170	1151 12 21	19	2,1,2,2,1,2,1,1	12	0	83.3			
9	21 33 529	435 11 52	94	14 03 13.8	-10.0 21 30	23.8	09 52 1172	1084 22 59	88	1,1,1,1,0,2,1,3	10	0	83.6			
10	17 59 501	411 13 21	90	12 47 17.8	-7.3 17 37	25.1	17 28 1198	1105 00 00	93	3,2,2,2,3,3,2,1	18	1	83.8			
11	18 57 482	413 10 59	69	13 10 14.3	-0.1 18 47	14.4	14 43 1213	1156 05 48	57	0,1,3,2,3,2,2,1	14	0	84.2			
12 q	19 50 476	443 11 07	33	13 52 10.7	2.8 09 12	7.9	00 57 1168	1159 19 27	9	0,0,1,0,1,0,0,1	3	0	84.0			
13 q	06 59 476	443 12 03	33	12 53 11.9	2.7 20 30	9.2	20 30 1174	1158 06 07	16	0,0,1,1,1,1,2,2	8	0	84.1			
14	23 00 487	454 10 31	33	12 52 14.9	3.7 22 30	11.2	15 28 1168	1141 06 48	27	2,1,1,2,2,1,1,1	11	0	84.1			
15	23 00 496	450 11 36	46	14 11 11.0	-4.8 23 58	15.8	03 31 1166	1124 23 20	42	0,1,0,1,1,0,0,3	6	0	84.1			
16	20 02 494	456 10 53	38	14 01 12.2	-7.1 00 30	19.3	08 45 1161	1127 00 28	34	3,1,1,0,1,1,0,1	8	0	83.1			
17	18 43 499	458 12 45	41	13 35 11.1	3.9 06 30	7.2	01 43 1160	1144 03 22	16	1,1,1,1,1,0,1,1	7	0	83.0			
18 q	21 52 486	449 10 37	37	13 36 11.2	3.9 08 40	7.3	08 33 1164	1148 12 40	16	1,0,0,1,1,1,0,1	5	0	83.0			
19 q	22 55 490	450 10 40	40	12 48 13.1	4.1 08 37	9.0	08 00 1162	1143 12 00	19	0,0,0,1,1,1,0,1	4	0	81.6			
20	04 16 487	446 09 22	41	12 53 17.6	3.4 20 11	14.2	16 08 1186	1144 11 48	42	1,1,1,2,2,2,2,1	12	0	81.4			
21	21 35 482	451 11 10	31	13 50 14.1	-4.3 21 40	18.4	22 04 1178	1143 22 54	35	0,0,1,1,1,1,1,3	8	0	81.9			
22	05 13 481	439 11 46	42	13 52 21.1	3.7 08 10	17.4	18 23 1222	1151 24 00	71	0,0,1,1,2,3,1,1	10	0	81.4			
23	20 00 485	439 12 32	46	12 19 13.9	3.0 02 34	10.9	08 36 1170	1133 02 03	37	2,1,1,1,1,1,1,0	8	0	81.5			
24 q	20 41 486	447 11 53	39	12 33 13.0	2.5 24 00	10.5	23 12 1165	1156 12 52	9	0,0,1,1,1,1,0,1	5	0	81.9			
25 d	15 48 618	337 24 00	281	14 12 35.1	-21.3 17 02	56.4	16 09 1375	930 23 58	445	4,3,4,4,5,5,6,5	36	1	81.8			
26 d	19 44 545	246 00 17	299	00 13 22.4	-24.9 19 43	47.3	16 29 1224	903 00 19	321	5,5,3,3,3,4,5,3	31	1	81.9			
27	21 20 494	431 03 38	63	12 50 13.2	-8.5 16 43	21.7	16 33 1204	1129 21 25	75	3,2,2,2,2,3,3,3	20	1	81.5			
28	22 42 473	433 10 30	40	14 21 15.7	-1.5 21 42	17.2	15 07 1217	1154 00 28	63	1,1,1,1,3,3,0,2	12	0	81.1			
29	18 44 486	439 22 04	47	15 37 12.3	-5.4 21 33	17.7	18 23 1223	1136 22 01	87	0,2,2,1,1,3,3,3	15	0	81.2			
30	17 02 485	440 18 53	45	12 02 13.1	-13.7 18 00	26.8	18 01 1215	1161 09 43	54	1,1,1,1,2,4,4,2	16	0	81.2			
31 d	20 10 554	209 21 15	345	15 48 23.7	-36.6 21 03	60.3	20 10 1270	1061 21 14	209	3,3,3,2,3,3,5,6	28	1	81.0			
Mean	- - 501	410 - -	91	- - 16.6	-5.5 - -	22.1	- - 1203	1111 - -	92	-	-	0.29	83.3			

TERRESTRIAL MAGNETIC FORCE: HORIZONTAL COMPONENT
Mean values for periods of sixty minutes ending at exact hours, G.M.T.

49 LERWICK (H)			14,000γ (0.14 C.G.S. unit) +																				NOVEMBER 1955				
	Hour G.M.T.																										
	0-1	1-2	2-3	3-4	4-5	5-6	6-7	7-8	8-9	9-10	10-11	11-12	12-13	13-14	14-15	15-16	16-17	17-18	18-19	19-20	20-21	21-22	22-23	23-24	Mean		
	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ		
1	424	441	444	430	439	469	465	455	454	449	440	436	439	447	454	458	464	462	471	467	453	462	469	462	452		
2	459	458	456	461	466	464	469	466	463	458	452	443	443	453	458	464	459	455	464	473	480	478	475	477	462		
3 q	473	473	472	473	473	472	472	468	462	448	443	445	448	458	468	470	470	472	473	477	477	471	469	473	467		
4 d	462	449	465	468	457	429	463	465	467	468	454	439	454	461	463	468	462	468	466	466	454	410	401	421	453		
5	446	450	447	446	458	477	469	469	448	443	440	447	447	450	458	462	463	465	466	462	465	462	460	459	457		
6 q	467	473	469	468	469	472	475	474	467	458	450	447	449	452	457	462	465	469	472	469	472	471	465	466	465		
7 q	472	468	466	468	469	471	473	476	469	461	453	450	454	455	460	467	470	472	473	477	477	477	475	474	468		
8	475	478	478	479	478	482	492	489	477	470	467	463	461	463	468	473	475	475	468	475	477	475	453	418	471		
9	463	461	464	467	468	463	467	471	469	463	460	451	450	456	464	467	471	471	469	471	473	475	471	474	466		
10	472	467	466	468	471	474	475	475	470	462	453	445	449	457	464	470	476	471	474	473	474	475	479	479	468		
11	474	471	475	474	476	479	479	478	471	463	455	453	457	461	468	473	464	475	474	475	471	483	478	477	471		
12	474	473	475	475	475	479	479	479	438	419	435	438	458	456	461	469	482	490	504	459	466	467	468	468	466		
13	467	466	463	459	464	469	474	471	467	457	449	448	452	456	461	465	469	470	469	471	473	472	471	475	465		
14	470	469	469	471	473	474	474	471	468	461	453	451	460	467	474	467	476	479	481	481	477	475	478	479	471		
15	479	478	478	479	482	482	488	473	469	468	456	449	448	460	456	448	452	453	456	441	438	453	419	443	460		
16 d	445	429	389	435	451	451	453	456	452	449	452	452	453	459	471	460	461	464	467	464	441	419	450	460	449		
17	457	451	461	460	463	464	468	468	462	453	446	444	449	452	452	456	464	468	469	467	464	460	463	464	459		
18 d	464	464	464	460	460	467	469	476	453	458	458	457	467	464	472	479	487	605	746	509	507	482	452	448	486		
19 d	447	438	441	449	453	455	455	458	460	427	383	416	466	604	1252	965	504	555	452	425	431	428	400	394	507		
20 d	332	294	398	418	423	420	418	408	379	414	408	412	471	479	460	480	580	551	470	387	386	368	410	375	423		
21	404	400	425	431	448	452	448	445	439	435	434	435	436	440	444	447	449	452	453	455	455	459	459	457	442		
22 q	455	455	455	457	460	460	460	463	460	453	449	442	434	436	445	449	455	458	458	460	461	463	464	463	455		
23 q	461	461	460	464	468	467	465	464	460	454	450	454	453	456	461	463	465	467	467	466	463	466	461	459	461		
24	465	468	468	468	469	471	474	469	460	458	458	454	449	456	456	460	456	453	452	460	457	456	463	457	461		
25	460	459	467	467	469	475	471	474	464	457	458	456	449	445	462	468	449	463	468	471	469	466	466	470	463		
26	476	465	469	470	473	474	479	476	468	460	450	450	453	458	457	462	467	471	472	471	469	467	463	465	466		
27	478	470	470	472	473	475	475	472	471	460	458	453	454	461	467	465	469	468	472	473	471	463	460	472	468		
28	471	468	470	473	476	477	475	475	474	467	449	440	451	459	463	464	458	469	471	475	472	454	408	452	463		
29	465	468	463	464	472	479	479	474	467	464	457	450	456	459	460	465	467	464	465	467	457	453	465	468	465		
30	468	470	470	468	474	474	478	476	472	468	464	459	458	463	460	461	465	468	460	468	472	470	468	468	468		
Mean	457	455	459	461	465	467	469	468	460	454	448	446	452	461	487	481	471	477	477	465	463	459	456	457	463		

MAGNETIC DECLINATION (WEST)
Mean values for periods of sixty minutes ending at exact hours, G.M.T.

50 LERWICK (D)												10° +												NOVEMBER 1955											
	Hour G.M.T.																																		
	0-1	1-2	2-3	3-4	4-5	5-6	6-7	7-8	8-9	9-10	10-11	11-12	12-13	13-14	14-15	15-16	16-17	17-18	18-19	19-20	20-21	21-22	22-23	23-24	Mean										
1	5.3	5.8	4.2	3.1	6.3	1.0	5.1	4.1	4.6	5.7	6.8	8.6	9.9	11.0	9.9	8.5	7.4	8.0	2.4	-4.5	5.6	5.5	6.8	6.6	5.7										
2	5.6	5.7	7.4	6.3	5.5	5.4	4.9	4.9	4.1	5.2	8.7	10.7	10.9	11.1	10.5	7.9	8.7	7.8	8.3	7.7	7.5	6.7	5.5	4.2	7.1										
3 q	5.6	6.2	6.7	6.8	6.2	6.2	5.9	5.4	4.6	4.2	6.0	8.5	9.7	9.5	10.2	9.5	8.2	7.6	7.4	7.1	8.0	8.7	7.5	6.6	7.2										
4 d	3.7	-3.3	4.0	14.2	21.4	17.3	13.0	1.4	2.4	4.1	7.5	8.3	8.1	8.5	7.7	6.3	6.8	8.1	7.4	4.2	-3.5	-1.1	-2.0	-11.2	5.6										
5	-7.0	-3.2	0.4	2.5	6.8	2.7	4.2	5.7	6.1	7.8	8.2	10.1	10.9	11.0	10.7	8.7	7.9	7.3	8.3	7.6	6.5	5.9	3.7	5.5	5.8										
6 q	5.3	3.5	4.9	5.9	5.4	4.6	4.7	4.6	4.3	4.3	5.6	7.8	9.3	9.9	9.0	8.2	7.6	7.3	7.1	6.8	2.9	3.6	3.5	4.6	5.9										
7 q	4.1	4.9	5.7	5.2	4.9	5.6	5.7	5.1	4.9	5.1	6.1	8.1	10.0	10.9	9.7	8.7	9.2	8.2	7.4	6.7	6.5	6.3	6.3	6.8	6.8										
8	6.5	7.2	7.1	6.0	5.4	7.4	7.8	8.0	7.1	7.5	9.4	10.3	10.7	11.0	12.1	16.7	19.8	9.2	10.9	7.0	7.3	5.8	3.7	-1.7	8.4										
9	8.6	5.7	5.4	5.9	3.0	5.5	5.1	5.2	5.5	4.5	7.1	8.5	9.8	10.9	11.4	10.6	10.5	9.6	9.5	8.0	7.1	6.3	5.9	5.6	7.3										
10	4.4	5.2	6.1	6.1	6.2	5.7	5.2	4.9	3.7	3.9	6.3	8.2	9.9	10.4	10.4	8.7	8.4	8.1	7.1	0.4	6.5	6.1	6.8	3.6	6.3										
11	2.4	5.9	6.1	7.3	6.6	6.1	6.2	5.7	4.7	4.7	5.8	8.1	10.7	11.3	12.3	11.1	8.8	7.5	7.8	5.8	2.6	-2.1	4.5	6.1	6.5										
12	6.5	7.4	6.3	5.5	5.9	5.9	5.8	4.9	3.4	10.8	13.0	15.7	15.1	11.7	10.7	10.4	13.5	11.4	-0.9	8.3	6.3	5.7	5.9	5.3	8.1										
13	6.1	6.1	4.5	4.7	1.7	2.9	4.9	4.4	4.1	4.8	6.7	9.4	11.5	11.2	10.2	9.0	8.5	8.1	6.7	6.9	6.3	6.0	6.0	5.5	6.5										
14	4.9	6.0	6.5	6.2	5.8	5.8	5.7	5.2	4.7	5.0	6.1	8.1	10.8	10.5	11.1	9.0	8.8	10.3	9.1	8.8	2.2	5.6	5.7	5.5	7.0										
15	7.2	7.2	6.8	6.5	6.6	7.4	7.3	7.3	7.7	9.4	9.0	13.2	16.3	16.9	15.5	13.5	8.7	4.9	7.3	-4.9	-5.9	-1.2	3.5	1.2	7.1										
16 d	-2.5	0.3	5.9	-0.1	4.5	6.8	17.0	14.2	9.5	6.8	7.3	9.9	11.2	15.0	18.4	14.5	13.5	10.7	6.0	-1.6	-1.8	-0.8	-7.6	2.1	6.6										
17	3.9	4.3	5.0	2.7	14.4	5.1	5.1	5.5	5.1	4.9	6.2	7.4	8.7	9.4	10.2	9.3	7.8	6.6	6.1	6.0	5.5	3.7	5.3	5.2	6.4										
18 d	6.1	5.5	4.9	4.4	5.3	4.8	9.8	9.9	7.5	6.2	8.4	10.9	13.5	14.0	12.0	14.9	18.0	-1.6	19.8	11.9	4.5	2.5	1.3	5.7	8.3										
19 d	8.9	8.3	4.4	4.4	4.5	4.4	4.2	4.3	5.1	3.9	3.6	6.1	12.6	22.0	27.0	18.3	12.9	4.9	5.0	2.0	5.1	4.9	2.4	-14.0	6.9										
20 d	1.6	6.1	-6.6	-4.7	2.2	1.7	6.5	7.0	9.3	10.4	6.3	8.3	9.2	11.0	13.6	12.7	9.1	0.1	0.6	-7.1	-10.8	-6.3	2.6	-8.3	3.1										
21	-1.8	2.2	8.8	8.2	8.8	6.5	6.1	6.5	6.4	6.1	5.9	6.3	7.2	7.4	7.1	6.2	6.0	5.5	5.4	5.2	4.9	5.0	5.1	5.2	5.8										
22 q	5.0	5.1	5.1	5.3	5.3	5.1	5.0	5.5	4.4	4.5	6.3	8.8	9.1	9.9	9.7	7.3	5.9	5.1	4.9	4.9	4.6	4.7	5.2	5.3	5.9										
23 q	5.3	5.2	5.2	5.3	5.5	6.0	5.3	4.3	4.5	3.7	4.5	7.1	7.9	8.5	8.4	7.7	7.3	6.2	6.1	6.3	6.6	-0.2	2.0	3.7	5.5										
24	6.3	6.6	5.5	5.2	5.7	5.6	5.4	6.5	5.5	5.8	7.6	8.5	11.6	11.6	13.2	14.2	14.6	11.8	8.7	6.1	3.9	3.4	2.7	1.7	7.4										
25	5.9	11.1	3.7	3.5	4.5	4.9	5.2	5.2	6.1	6.6	7.5	9.9	11.6	10.3	10.3	12.2	2.6	7.5	6.1	5.9	5.3	4.5	4.5	5.5	6.7										
26	5.1	8.9	4.9	3.8	3.7	4.9	5.1	5.5	5.1	5.2	6.0	8.1	9.2	9.3	8.5	8.0	7.5	6.9	6.8	6.3	5.2	3.5	2.6	5.0	6.0										
27	5.8	6.4	6.8	6.6	6.4	6.1	5.6	5.9	5.6	5.4	7.2	9.2	9.9	10.9	11.8	9.7	8.5	7.5	6.9	6.5	6.1	4.6	4.5	5.9	7.1										
28	5.1	6.6	6.8	6.3	6.4	6.1	5.6	5.2	5.2	5.9	7.9	11.6	12.1	10.9	10.7	9.1	7.4	6.9	6.5	6.5	5.9	1.7	-5.3	-3.5	6.1										
29	2.4	5.3	3.0	4.3	6.1	4.8	5.2	6.2	7.1	7.2	6.8	8.5	8.2	8.4	8.5	7.5	7.3	6.4	5.2	5.3	-0.7	2.0	3.9	6.1	5.6										
30	6.2	6.3	6.1	6.9	6.8	4.7	5.5	5.3	5.4	5.4	6.5	8.1	8.9	9.7	10.0	8.4	9.0	7.6	5.1	5.5	5.6	4.9	5.5	5.5	6.6										
Mean	4.4	5.3	5.1	5.1	6.3	5.6	6.3	5.8	5.5	5.8	7.0	9.1	10.5	11.1	11.4	10.2	9.3	7.2	6.9	4.9	3.9	3.6	3.6	2.8	6.5										

TERRESTRIAL MAGNETIC FORCE: VERTICAL COMPONENT
Mean values for periods of sixty minutes ending at exact hours, G.M.T.

33

51 LERWICK (Z)		46,000γ (0.46 C.G.S. unit) +																								NOVEMBER 1955				
	Hour G.M.T.																													
	0-1	1-2	2-3	3-4	4-5	5-6	6-7	7-8	8-9	9-10	10-11	11-12	12-13	13-14	14-15	15-16	16-17	17-18	18-19	19-20	20-21	21-22	22-23	23-24	Mean					
	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ					
1	1127	1139	1165	1149	1087	1092	1126	1151	1166	1171	1172	1174	1174	1174	1176	1176	1175	1184	1196	1181	1172	1167	1157	1153	1159					
2	1166	1170	1171	1170	1171	1174	1171	1174	1173	1171	1170	1171	1176	1181	1203	1203	1196	1201	1192	1183	1174	1172	1170	1166	1178					
3 q	1167	1167	1168	1169	1170	1169	1170	1169	1169	1172	1170	1168	1166	1162	1164	1167	1171	1170	1170	1168	1166	1164	1165	1159	1167					
4 d	1147	1112	1109	1067	1025	1022	1044	1101	1141	1155	1163	1170	1168	1168	1173	1178	1180	1178	1178	1181	1186	1164	1077	1109	1133					
5	1111	1115	1117	1117	1115	1122	1150	1161	1170	1175	1170	1166	1176	1177	1174	1177	1179	1179	1179	1183	1181	1179	1177	1166	1159					
6 q	1150	1150	1156	1160	1162	1164	1165	1166	1171	1174	1175	1172	1169	1169	1170	1171	1172	1172	1172	1173	1172	1170	1169	1166	1167					
7 q	1158	1151	1153	1158	1162	1164	1166	1168	1172	1176	1177	1176	1173	1172	1175	1175	1174	1173	1172	1171	1172	1171	1170	1169	1169					
8	1167	1164	1160	1158	1158	1157	1158	1157	1164	1166	1162	1166	1173	1174	1181	1204	1257	1244	1248	1208	1182	1174	1178	1164	1180					
9	1074	1143	1163	1167	1164	1163	1162	1165	1168	1171	1169	1171	1172	1172	1171	1170	1170	1171	1172	1172	1171	1172	1175	1174	1164					
10	1170	1170	1169	1168	1168	1166	1165	1166	1170	1174	1174	1174	1174	1172	1170	1169	1169	1172	1172	1172	1178	1169	1170	1165	1152	1169				
11	1154	1159	1159	1164	1165	1164	1163	1164	1168	1169	1173	1171	1168	1170	1173	1172	1178	1174	1170	1170	1172	1159	1155	1161	1166					
12	1166	1167	1168	1167	1166	1162	1161	1163	1179	1176	1161	1164	1165	1168	1168	1170	1176	1221	1320	1236	1211	1188	1176	1169	1182					
13	1172	1174	1173	1169	1162	1170	1168	1171	1172	1172	1171	1172	1173	1173	1175	1176	1176	1178	1181	1176	1174	1173	1172	1168	1173					
14	1172	1174	1174	1173	1172	1170	1168	1168	1168	1168	1172	1168	1166	1168	1171	1179	1178	1173	1172	1175	1184	1178	1173	1169	1172					
15	1169	1169	1171	1171	1169	1167	1161	1166	1163	1163	1169	1177	1198	1217	1215	1217	1227	1229	1220	1246	1205	1170	1135	1092	1183					
16 d	1114	1097	1034	1024	1096	1119	1113	1126	1148	1166	1178	1183	1191	1197	1215	1213	1228	1266	1302	1292	1240	1143	1113	1152	1165					
17	1163	1160	1166	1166	1107	1134	1159	1170	1174	1178	1178	1177	1176	1182	1184	1184	1179	1179	1178	1176	1178	1184	1181	1176	1170					
18 d	1172	1174	1174	1171	1158	1124	1142	1156	1171	1172	1169	1168	1167	1174	1176	1174	1185	1320	1267	1298	1261	1231	1218	1207	1193					
19 d	1204	1202	1194	1192	1189	1187	1186	1182	1181	1192	1212	1241	1270	1326	1201	1332	1393	1348	1267	1215	1196	1207	1217	1138	1228					
20 d	1092	963	1040	1133	1141	1144	1149	1175	1191	1220	1238	1238	1267	1271	1266	1327	1342	1297	1295	1202	1179	1151	1113	1056	1187					
21	1035	1060	1086	1135	1149	1167	1177	1185	1188	1194	1195	1194	1191	1188	1188	1188	1187	1187	1188	1187	1187	1187	1185	1185	1167					
22 q	1185	1184	1184	1182	1182	1183	1184	1182	1182	1185	1185	1187	1192	1192	1189	1188	1187	1188	1187	1185	1184	1182	1181	1181	1185					
23 q	1180	1179	1178	1178	1176	1178	1177	1179	1182	1184	1184	1178	1175	1174	1174	1178	1178	1178	1179	1182	1186	1185	1184	1182	1179					
24	1179	1178	1178	1176	1175	1174	1172	1174	1177	1178	1178	1180	1183	1182	1188	1192	1202	1215	1221	1211	1210	1197	1178	1168	1186					
25	1167	1121	1132	1150	1164	1168	1172	1173	1176	1177	1176	1174	1178	1184	1182	1184	1210	1189	1181	1176	1176	1179	1179	1176	1173					
26	1166	1163	1162	1162	1164	1166	1165	1168	1172	1177	1180	1180	1179	1178	1178	1179	1176	1174	1173	1174	1177	1179	1181	1176	1173					
27	1149	1164	1172	1172	1172	1172	1170	1171	1172	1176	1177	1182	1184	1179	1180	1183	1181	1181	1178	1175	1178	1184	1186	1174	1175					
28	1167	1173	1174	1173	1170	1169	1169	1168	1169	1170	1177	1178	1178	1178	1179	1184	1189	1180	1177	1174	1175	1183	1119	1120	1171					
29	1156	1161	1162	1165	1164	1166	1167	1168	1168	1168	1172	1179	1180	1180	1180	1182	1182	1182	1182	1176	1182	1178	1174	1174	1173					
30	1176	1176	1178	1178	1168	1168	1166	1167	1169	1170	1172	1176	1178	1177	1185	1188	1187	1188	1192	1185	1178	1176	1175	1174	1177					
Mean	1153	1149	1153	1156	1153	1155	1159	1165	1171	1175	1177	1179	1183	1186	1184	1193	1199	1203	1203	1194	1186	1177	1167	1159	1174					

DAILY EXTREMES OF TERRESTRIAL MAGNETIC ELEMENTS, MAGNETIC CHARACTER FIGURES AND TEMPERATURE IN MAGNET HOUSE

52 LERWICK		TERRESTRIAL MAGNETIC ELEMENTS													NOVEMBER 1955				
		Horizontal force			Declination			Vertical force			3-hr. range indices K	Sum of K indices	Magnetic character of day (0-2)	Temperature in magnet house 200 +					
		Maximum 14,000γ +	Minimum 14,000γ +	Range	Maximum 10° +	Minimum 10° +	Range	Maximum 46,000γ +	Minimum 46,000γ +	Range									
		h. m.	γ	h. m.	γ	h. m.	γ	h. m.	γ	h. m.					γ				
1		18 54	525	403 03 57	122	13 20	11.5	-17.7	18 52	29.2	18 50	1207	1073 04 57	134	3,4,3,1,1,2,4,2	20	1	81.0	
2		20 27	488	435 11 51	53	14 08	13.7	3.4	08 14	10.3	14 46	1220	1161 00 00	59	1,1,1,2,3,2,2,1	13	0	81.8	
3	q	20 50	480	442 10 31	38	14 45	10.4	3.3	09 14	7.1	09 24	1172	1154 23 59	18	0,0,1,1,1,1,1,1	6	0	79.6	
4	d	04 11	492	360 21 58	132	04 43	29.6	-14.6	23 38	44.2	20 40	1190	1003 05 00	187	3,4,4,3,1,1,3,4	23	1	79.9	
5		05 23	480	431 10 10	49	12 55	12.6	-8.8	00 54	21.4	19 42	1184	1102 00 52	82	3,3,2,2,1,1,1,2	15	0	80.1	
6	q	20 35	481	446 11 03	35	13 33	10.2	0.9	20 35	9.3	20 08	1179	1145 01 00	34	2,0,0,1,0,0,2,2	7	0	80.5	
7	q	19 21	478	448 11 49	30	12 50	11.4	2.9	00 23	8.5	10 10	1178	1149 01 10	29	1,0,0,1,0,0,1,1	4	0	80.7	
8		06 58	496	362 23 34	134	16 14	26.2	-11.7	23 33	37.9	17 07	1270	1090 24 00	180	1,1,1,1,2,4,4,5	19	1	83.4	
9		00 00	493	438 00 33	55	00 20	15.7	0.6	01 05	15.1	23 11	1178	1042 00 18	136	4,2,1,2,1,0,1,1	12	0	84.0	
10		22 54	487	441 11 39	46	14 07	11.4	-2.3	19 07	13.7	19 07	1183	1145 23 05	38	1,0,1,1,1,1,3,2	10	0	84.2	
11		21 37	488	453 11 14	35	14 25	12.6	-3.9	21 05	16.5	16 42	1182	1153 00 19	29	2,1,1,1,1,2,2,3	13	0	84.1	
12		18 01	601	401 09 10	200	11 34	22.0	-9.1	18 17	31.1	18 14	1350	1155 10 08	195	1,0,3,3,2,5,5,2	21	1	84.0	
13		23 44	485	442 11 24	43	12 57	12.4	0.5	04 33	11.9	18 23	1184	1158 04 34	26	1,1,0,2,1,1,1,1	8	0	83.5	
14		20 39	489	449 10 52	40	12 24	12.3	-1.5	20 28	13.8	20 23	1192	1165 12 30	27	0,0,0,1,1,2,3,1	8	0	83.4	
15		06 09	494	387 22 58	107	12 58	22.8	-10.9	19 50	33.7	19 42	1267	1086 23 37	181	1,1,2,3,2,3,4,4	20	1	83.3	
16	d	14 13	481	344 02 10	137	14 36	20.9	-17.6	22 18	38.5	18 18	1314	973 03 11	341	4,5,3,2,3,4,4,4	29	1	83.2	
17		04 25	483	442 11 11	41	04 21	21.2	0.8	03 25	20.4	21 42	1187	1081 04 38	106	2,4,2,1,1,1,0,2	13	0	83.2	
18	d	18 27	884	393 19 43	491	18 21	64.9	-20.7	17 43	85.6	18 04	1385	1111 05 36	274	1,3,3,2,2,6,7,4	28	1	83.6	
19	d	14 37	1689	356 23 16	1333	14 38	111.2	-27.7	23 28	138.9	15 18	1539	906 14 37	633	2,1,2,3,9,8,5,4	34	2	83.8	
20	d	16 51	774	210 00 43	564	17 34	27.9	-34.9	17 10	62.8	17 05	1413	922 01 21	491	5,3,3,3,4,6,5,4	33	1	83.8	
21		21 48	460	331 00 00	129	02 41	11.2	-7.2	01 08	18.4	10 50	1195	1030 00 11	165	4,3,1,1,0,0,0,1	10	0	83.5	
22	q	07 54	465	430 12 38	35	14 13	10.9	3.7	09 37	7.2	12 29	1194	1179 24 00	15	0,0,1,1,1,1,0,1	5	0	83.7	
23	q	21 55	476	448 11 03	28	11 43	10.2	-4.2	21 48	14.4	21 25	1189	1173 14 22	16	0,0,1,2,1,0,1,3	8	0	83.1	
24		06 10	478	444 18 20	34	16 10	16.2	-0.6	23 08	16.8	18 20	1225	1165 23 00	60	1,0,1,1,2,2,3,3	13	0	83.0	
25		24 00	490	438 13 11	52	01 00	23.4	-1.6	16 24	25.0	16 32	1220	1108 01 24	112	4,2,1,1,2,3,0,2	15	1	83.0	
26		00 07	497	445 10 16	52	23 59	12.7	0.7	22 11	12.0	22 35	1182	1157 01 30	25	2,1,1,1,0,0,0,3	8	0	80.0	
27		00 20	485	449 11 41	36	00 01	13.1	2.6	22 15	10.5	22 00	1190	1139 00 21	51	3,0,0,1,1,1,0,2	8	0	80.2	
28		04 48	478	373 22 42	105	12 51	13.1	-22.7	22 52	35.8	16 18	1192	1046 22 36	146	1,0,0,2,1,1,1,5	11	0	79.9	
29		06 40	482	445 21 17	37	11 53	9.6	-2.2	20 23	11.8	20 42	1187	1146 00 00	41	1,1,1,1,1,1,2,2	10	0	79.4	
30		04 49	482	453 14 42	29	14 38	10.3	3.2	05 09	7.1	18 38	1196	1162 04 50	34	0,2,0,1,1,1,2,1	8	0	80.0	
Mean		- - 552	411 - -	141	- - 20.4	-6.6 - -	27.0	- - 1232	1103 - -	129	- -	-	-	-	-	0.37	-	82.2	

TERRESTRIAL MAGNETIC FORCE: HORIZONTAL COMPONENT
Mean values for periods of sixty minutes ending at exact hours, G.M.T.

53 LERWICK (H)		14,000γ (0.14 C.G.S. unit) +												DECEMBER 1955														
	Hour	G.M.T.	0-1	1-2	2-3	3-4	4-5	5-6	6-7	7-8	8-9	9-10	10-11	11-12	12-13	13-14	14-15	15-16	16-17	17-18	18-19	19-20	20-21	21-22	22-23	23-24	Mean	
			γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	
1	d		470	470	473	475	475	476	476	475	480	472	458	456	464	471	456	474	471	498	702	646	425	351	333	358	471	
2			367	389	384	421	441	462	443	444	433	436	442	449	456	450	455	460	463	464	463	463	463	463	463	461	443	
3			460	461	463	465	466	469	472	469	469	466	459	452	450	450	459	459	461	471	478	475	484	462	475	469	465	
4			470	454	463	469	471	476	469	467	463	458	454	456	460	463	463	466	467	469	470	471	469	471	472	469	466	
5			467	467	468	472	476	477	471	470	464	464	463	460	463	470	472	475	471	473	474	471	478	477	473	497	482	472
6	d		455	454	447	453	449	458	463	456	453	453	453	452	461	465	466	468	471	471	471	474	469	471	445	438	459	
7			460	458	451	474	457	458	458	460	459	460	456	459	461	464	467	471	475	475	474	474	474	474	475	472	465	
8			471	474	477	471	474	484	478	471	467	463	463	461	462	463	471	472	461	470	473	477	467	456	460	469	469	
9			473	460	466	467	473	485	482	470	463	467	463	454	450	445	459	462	465	475	472	472	471	469	471	471	467	
10			470	471	468	468	467	471	472	470	471	469	463	461	456	457	469	473	469	467	467	478	471	474	474	475	469	
11			473	473	472	473	472	471	471	470	470	468	460	456	456	462	472	475	475	477	475	478	478	475	471	472	471	
12			478	474	474	473	474	475	475	475	475	473	469	467	465	464	469	475	481	481	478	477	475	467	469	471	473	473
13	q		472	472	472	473	473	475	476	477	476	475	470	463	460	460	469	475	478	477	482	481	481	481	482	481	479	474
14	q		478	479	479	480	482	484	486	484	486	482	475	470	467	472	476	479	482	482	483	482	482	481	478	478	479	474
15			478	482	478	473	473	478	482	482	482	478	472	469	469	475	478	480	482	483	477	466	466	463	465	466	473	475
16			467	469	470	475	481	487	489	489	481	475	475	470	464	462	461	469	468	468	473	475	478	475	475	475	474	
17			475	478	476	478	480	485	482	482	482	478	473	470	471	473	474	475	471	471	473	478	477	476	475	477	476	
18	q		475	475	479	482	482	485	485	486	486	481	472	464	465	468	475	478	483	484	486	486	485	482	479	478	479	
19			478	476	476	478	482	486	487	485	477	472	476	475	469	466	476	479	465	460	466	451	456	458	460	468	472	
20			463	466	462	478	481	474	476	485	478	473	466	459	458	466	466	456	465	470	473	475	472	467	460	461	469	
21			464	467	467	475	478	482	487	486	480	472	467	466	461	465	462	462	463	459	466	466	452	456	448	460	467	
22			465	466	467	471	479	483	483	480	473	467	461	460	462	467	467	467	473	475	472	473	476	475	474	475	471	
23	q		475	478	478	478	483	486	484	484	480	474	470	467	467	472	475	475	476	478	479	477	476	473	472	475	476	
24			478	477	476	476	480	482	483	486	485	480	477	475	476	480	486	487	477	476	480	482	483	486	485	493	481	
25	d		465	467	467	468	478	463	496	487	475	470	465	461	469	472	452	462	479	491	474	478	454	462	461	462	470	
26	d		463	463	462	467	472	475	477	473	468	467	460	442	442	456	467	474	449	463	470	465	460	470	403	382	458	
27	d		436	443	447	427	469	482	470	472	466	454	446	451	455	465	460	463	465	475	467	469	469	475	466	467	461	
28			467	467	469	470	472	475	476	476	478	475	464	466	467	471	469	457	461	464	462	461	467	470	472	471	469	
29	q		471	471	471	475	477	479	479	477	473	468	466	465	467	469	475	476	476	476	478	475	475	475	475	474	473	
30			474	472	472	473	476	481	481	479	479	475	471	470	470	468	469	469	465	473	474	478	479	479	481	482	481	475
31			480	477	478	479	485	488	485	482	486	487	475	474	474	478	464	482	475	463	470	469	473	467	468	471	476	
Mean			466	466	466	471	474	477	477	476	473	469	464	462	463	466	468	471	471	474	481	479	470	467	464	465	470	

479 at 0-1h. January 1, 1956.

MAGNETIC DECLINATION (WEST)
Mean values for periods of sixty minutes ending at exact hours, G.M.T.

54	LERWICK (D)												10° +												DECEMBER 1955																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																				
	Hour G.M.T.																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																												

TERRESTRIAL MAGNETIC FORCE: VERTICAL COMPONENT
Mean values for periods of sixty minutes ending at exact hours, G.M.T.

35

55 LERWICK (Z)		46,000γ (0.46 C.G.S. unit) +																						DECEMBER 1955			
Hour G.M.T.																											
0-1 1-2 2-3 3-4 4-5 5-6 6-7 7-8 8-9 9-10 10-11 11-12																											

1144 at 0-1h. January 1, 1956.

DAILY EXTREMES OF TERRESTRIAL MAGNETIC ELEMENTS, MAGNETIC CHARACTER FIGURES AND TEMPERATURE IN MAGNET HOUSE

56 LERWICK		TERRESTRIAL MAGNETIC ELEMENTS														DECEMBER 1955			
		Horizontal force			Declination			Vertical force			3-hr. range indices K	Sum of K indices	Magnetic character of day (0-2)	Temperature in magnet house 200 +					
		Maximum 14,000γ +	Minimum 14,000γ +	Range	Maximum 10° +	Minimum 10° +	Range	Maximum 46,000γ +	Minimum 46,000γ +	Range									
		h. m.	γ	h. m.	γ	h. m.	γ	h. m.	γ	h. m.	γ				°A.				
1 d	18 28	802	110	21 56	692	20 36	49.7	-35.3	22 06	85.0	18 15	1371	916	22 10	455	2,1,1,2,3,4,7,6	26	2	80.1
2	05 38	469	352	00 30	117	07 17	15.1	-20.0	03 23	35.1	17 35	1187	1057	02 36	130	4,4,3,2,1,1,0,1	16	1	80.0
3	20 37	520	440	13 10	80	16 23	14.5	-11.5	20 36	26.0	20 16	1234	1174	11 00	60	0,0,1,1,2,2,4,3	13	1	80.1
4	05 42	480	445	01 51	35	11 35	9.2	1.1	01 50	8.1	18 43	1184	1170	03 23	14	2,1,1,1,1,0,0,1	7	0	80.2
5	22 33	523	459	10 57	64	13 40	10.6	-10.7	23 05	21.3	21 55	1190	1146	23 27	44	1,0,0,0,1,1,1,3	7	0	79.9
6 d	21 18	519	425	22 59	94	11 53	9.5	-23.2	21 11	32.7	21 05	1211	1127	23 16	84	2,2,3,1,1,0,3,4	16	1	80.6
7	03 42	490	438	00 06	52	11 39	9.9	-8.4	00 21	18.3	14 08	1181	1133	03 13	48	3,3,1,1,1,0,0,1	10	0	80.0
8	05 37	486	449	21 08	37	15 27	11.4	-15.8	20 49	27.2	16 50	1195	1151	05 30	44	1,1,1,1,1,2,4,3	14	0	79.9
9	05 29	489	434	13 56	55	13 12	15.4	0.9	16 04	14.5	13 57	1225	1110	01 42	115	3,2,2,2,3,3,1,1	17	0	79.6
10	19 24	494	447	12 58	47	17 05	13.1	2.6	19 19	10.5	18 29	1189	1167	19 28	22	1,1,0,1,2,2,2,1	10	0	79.1
11	23 54	486	454	12 26	32	13 04	9.6	-1.7	23 48	11.3	23 28	1187	1170	07 00	17	1,1,1,1,1,1,1,2	9	0	77.5
12	00 02	485	460	20 51	25	17 40	12.0	0.9	22 02	11.1	21 07	1196	1169	06 40	27	2,1,1,0,1,1,2,2	10	0	77.4
13 q	17 15	486	459	12 33	27	17 42	9.4	4.8	09 37	4.6	00 00	1183	1168	08 40	15	0,0,0,0,1,1,1,1	4	0	77.0
14 q	08 50	488	465	12 20	23	13 50	9.4	5.4	23 20	4.0	15 47	1171	1161	08 40	10	0,0,1,1,0,0,0,1	3	0	77.7
15	16 04	486	460	20 41	26	13 11	10.5	6.1	23 10	16.6	19 30	1197	1162	23 41	35	1,1,1,0,0,1,2,3	9	0	78.1
16	07 29	493	456	14 32	37	13 02	14.4	1.9	00 00	12.5	17 22	1193	1148	03 41	45	2,2,1,2,2,2,2,1	14	0	78.1
17	05 07	486	467	11 52	19	17 14	10.2	3.2	21 53	7.0	18 07	1182	1161	11 44	21	0,1,0,1,1,1,1,1	6	0	77.4
18 q	16 45	489	462	11 52	27	14 03	8.8	4.6	22 48	4.2	12 00	1172	1161	02 50	11	1,1,1,1,0,0,0,0	4	0	77.2
19	07 05	489	444	19 14	45	16 33	24.9	-2.6	23 11	27.5	17 17	1235	1143	23 56	92	0,0,1,1,2,3,3,3	13	1	77.5
20	06 51	487	452	15 28	35	15 01	19.2	-2.1	00 00	21.3	16 21	1215	1123	03 44	92	3,3,2,1,3,3,1,2	18	0	77.0
21	06 54	489	445	22 40	44	15 06	20.4	-3.1	22 02	23.5	16 14	1277	1148	01 27	129	2,1,1,1,2,3,2,2	14	0	77.0
22	04 45	488	458	10 53	30	04 13	11.4	2.7	00 03	8.7	15 02	1179	1151	04 46	28	1,2,1,1,1,0,1,1	8	0	76.5
23 q	05 08	487	465	12 41	22	13 24	8.4	3.7	22 08	4.7	21 30	1178	1159	04 45	19	0,0,0,0,0,0,0,1	2	0	76.0
24	23 48	504	467	16 49	37	16 44	13.3	-6.2	23 30	19.5	16 52	1186	1129	24 00	57	1,0,1,0,0,2,1,3	7	0	77.5
25 d	19 49	518	438	00 53	80	15 08	21.2	-18.1	19 57	39.3	17 54	1314	1086	00 40	228	3,3,3,1,3,4,4,2	23	1	78.0
26 d	21 11	547	359	23 21	188	15 36	29.5	-28.6	21 14	58.1	16 37	1279	1020	21 43	259	0,1,1,2,3,4,4,6	21	1	78.5
27 d	04 42	496	411	03 34	85	02 54	17.9	-17.0	00 07	34.9	16 54	1212	1046	04 39	166	5,4,3,1,2,3,1,3	22	1	78.7
28	07 51	482	450	18 53	32	17 10	11.1	-2.5	19 02	13.6	19 10	1210	1169	07 52	41	0,0,1,1,1,2,3,1	9	0	78.9
29 q	18 27	482	464	11 47	18	13 44	8.3	3.9	21 17	4.4	20 07	1181	1169	11 47	12	0,0,0,0,0,0,1,1	2	0	79.0
30	23 26	485	458	15 27	27	14 40	10.7	3.8	23 22	6.9	15 34	1184	1166	11 50	18	1,0,0,0,1,1,1,0,1	4	0	78.8
31	05 07	494	451	20 13	43	17 37	13.4	-8.3	20 23	21.7	19 19	1229	1152	06 24	77	1,1,1,1,1,2,3,2	12	0	78.0
Mean	- -	504	434 - -	70	- -	14.6	-5.9 - -	20.5	- -	1211	1133 - -	78	-	-	-	-	0.29	-	78.4

ALL DAYS

Departures from the mean of the 24 hourly values (uncorrected for non-cyclic change)

57 LERWICK

	Hour G.M.T.																							
	0-1	1-2	2-3	3-4	4-5	5-6	6-7	7-8	8-9	9-10	10-11	11-12	12-13	13-14	14-15	15-16	16-17	17-18	18-19	19-20	20-21	21-22	22-23	23-24
HORIZONTAL FORCE																								
Jan.	-10.3	-29.7	-12.4	-10.6	-4.8	-0.1	+3.0	+5.3	+6.9	+7.3	+4.4	+3.0	+3.6	+4.3	+3.5	+4.1	+4.9	+6.2	+3.6	+3.4	+3.4	+1.6	-0.2	-0.4
Feb.	+0.7	-4.8	-7.4	-10.6	-4.7	+3.6	+5.7	+8.5	+6.6	+2.9	-1.9	-5.9	-4.4	-0.2	+2.9	+0.5	+1.1	+1.9	+1.0	+1.4	0.0	+2.2	+1.0	-0.1
Mar.	-4.2	-7.6	-11.0	-5.8	0.0	+4.1	+1.5	-5.8	-7.7	-10.7	-12.8	-14.0	-12.2	-3.6	+7.7	+19.8	+9.9	+14.8	+11.6	+14.5	+10.8	+3.9	-1.1	-2.1
Apr.	-23.3	-10.7	-6.5	-0.6	+2.1	+4.0	+4.8	+2.2	-4.7	-12.4	-18.9	-17.8	-9.6	-0.1	+5.7	+11.4	+18.1	+26.3	+33.4	+25.6	+7.2	-8.5	-14.0	-13.7
May	-14.9	-4.3	-7.6	-2.6	-2.0	-3.3	-3.2	-6.8	-15.7	-23.8	-25.5	-21.3	-11.6	-2.7	+7.9	+15.1	+18.0	+27.6	+31.7	+29.7	+20.9	+11.4	-7.2	-9.8
June	+0.9	-0.4	-0.4	-2.1	+0.3	-0.9	-5.3	-12.6	-22.3	-29.5	-31.7	-27.5	-18.0	-8.1	-1.4	+5.7	+16.2	+25.6	+28.2	+28.3	+23.1	+14.9	+11.0	+6.0
July	+1.1	-1.1	+0.3	+2.8	+1.9	-0.5	-4.2	-8.3	-16.7	-24.9	-29.0	-27.2	-22.4	-13.8	-1.6	+7.7	+16.3	+21.9	+26.0	+24.2	+20.4	+13.5	+8.9	+4.7
Aug.	+2.9	+0.9	+1.2	+4.4	+3.2	+0.3	-6.2	-12.7	-20.8	-25.3	-27.8	-26.8	-19.5	-6.6	+2.9	+8.5	+14.0	+22.6	+20.8	+20.7	+18.7	+12.4	+7.6	+4.6
Sept.	+4.7	-1.2	+2.2	+3.9	+7.7	+8.6	+2.1	-3.7	-11.7	-23.2	-29.0	-25.9	-17.4	-7.1	+1.8	+5.0	+5.2	+13.9	+14.5	+15.1	+11.2	+9.0	+7.3	+7.0
Oct.	0.0	+2.2	+1.1	+1.0	+6.0	+10.5	+9.4	+4.2	-5.1	-14.4	-20.9	-18.5	-13.8	-8.6	-1.7	+3.2	+7.6	+9.9	+9.0	+6.9	+4.8	+3.1	+1.2	+2.9
Nov.	-5.8	-8.7	-4.6	-1.9	+1.8	+4.0	+6.1	+4.6	-3.2	-9.1	-15.4	-17.3	-10.9	-1.9	+24.0	+17.7	+7.2	+14.2	+14.2	+1.9	+0.2	-3.9	-7.2	-6.0
Dec.	-4.2	-3.9	-3.7	+0.7	+3.7	+7.2	+7.4	+5.8	+2.8	-0.9	-5.6	-8.0	-7.2	-4.0	-1.7	+0.9	+0.8	+3.6	+10.8	+9.0	+0.2	-2.8	-5.8	-5.1
Year	-4.4	-5.8	-4.1	-1.8	+1.3	+3.1	+1.8	-1.6	-7.6	-13.7	-17.8	-17.3	-11.9	-4.4	+4.2	+8.3	+9.9	+15.7	+17.1	+15.1	+10.1	+4.7	+0.1	-1.0
Winter	-4.9	-11.7	-7.0	-5.6	-1.0	+3.7	+5.5	+6.1	+3.3	+0.1	-4.6	-7.1	-4.7	-0.5	+7.2	+5.8	+3.5	+6.5	+7.4	+3.9	+0.9	-0.7	-3.1	-2.9
Equinox	-5.7	-4.3	-3.5	-0.4	+3.9	+6.8	+4.5	-0.8	-7.3	-15.2	-20.4	-19.1	-13.3	-4.9	+3.4	+9.9	+10.2	+16.2	+17.1	+15.5	+8.5	+1.9	-1.7	-1.5
Summer	-2.5	-1.2	-1.6	+0.6	+0.9	-1.1	-4.7	-10.1	-18.9	-25.9	-28.5	-25.7	-17.9	-7.8	+1.9	+9.3	+16.1	+24.4	+26.7	+25.7	+20.8	+13.1	+5.1	+1.4
DECLINATION																								
Jan.	-1.85	-2.36	-3.17	-1.57	-1.01	-0.67	+0.60	+0.27	+0.28	+0.57	+1.56	+2.10	+2.73	+3.20	+3.33	+2.37	+2.24	+1.06	+0.31	-0.45	-2.03	-2.91	-2.56	-2.04
Feb.	-1.75	-1.75	-2.40	-2.34	-2.03	-2.70	-1.50	-0.51	+0.15	+1.10	+1.95	+3.13	+4.15	+4.40	+4.07	+3.26	+1.89	+1.04	+0.07	-1.59	-2.04	-2.11	-2.10	-2.39
Mar.	-1.59	-2.00	-3.21	-3.66	-2.96	-2.32	-1.51	-0.42	+0.33	+0.42	+1.95	+3.74	+5.25	+6.15	+5.91	+4.24	+2.62	+0.15	-0.90	-0.62	-1.98	-4.42	-2.32	-2.85
Apr.	-3.15	-2.71	-2.58	-3.46	-3.41	-2.90	-2.28	-2.04	-1.85	-1.05	+0.87	+3.77	+5.87	+7.21	+6.11	+5.02	+4.15	+3.33	+1.87	+0.43	-1.88	-3.08	-4.18	-4.06
May	-1.77	-2.98	-2.81	-2.72	-3.86	-4.27	-4.62	-4.28	-2.45	+0.23	+3.08	+5.07	+5.69	+5.80	+5.05	+4.19	+3.59	+2.95	+1.53	+1.15	-0.31	-1.11	-2.52	
June	-1.75	-1.96	-2.51	-3.52	-4.35	-5.63	-6.18	-5.79	-4.19	-2.07	+0.10	+2.85	+4.80	+5.31	+5.38	+4.92	+4.25	+3.26	+2.83	+2.30	+1.64	+0.58	+0.06	-0.33
July	-0.84	-0.77	-2.04	-3.38	-4.60	-5.30	-5.62	-5.53	-4.85	-3.35	-0.52	+2.25	+5.00	+6.18	+6.17	+5.38	+4.18	+3.02	+2.60	+2.19	+0.64	+0.26	-0.13	-0.94
Aug.	-1.99	-2.20	-2.27	-3.25	-4.25	-4.35	-4.20	-3.53	-2.82	-1.39	+1.33	+4.27	+6.44	+6.76	+5.66	+3.80	+2.25	+1.37	+0.89	+1.53	+0.69	-1.35	-1.80	-1.59
Sept.	-2.74	-1.54	-1.29	-2.47	-2.86	-2.28	-1.01	-1.06	-1.43	-0.23	+2.02	+3.97	+5.83	+6.04	+5.24	+3.62	+1.17	+0.34	-0.69	-1.58	-1.93	-2.23	-2.08	-2.81
Oct.	-1.82	-1.53	-1.71	-1.07	-1.05	-1.36	-1.18	-1.48	-1.69	-1.12	+0.90	+3.51	+5.34	+5.89	+5.63	+3.98	+1.21	-0.89	-0.38	-1.22	-1.67	-2.65	-3.35	-2.29
Nov.	-2.10	-1.24	-1.47	-1.38	-0.26	-0.95	-0.25	-0.73	-1.06	-0.69	+0.49	+2.55	+3.96	+4.62	+4.84	+3.71	+2.80	+0.70	+0.34	-1.64	-2.65	-2.96	-2.94	-3.69
Dec.	-3.15	-1.73	-1.12	-1.01	-1.26	-0.68	-0.49	-0.28	-0.58	-0.33	+0.62	+1.90	+3.01	+3.83	+3.93	+3.67	+2.97	+2.07	+1.32	+0.03	-1.84	-3.27	-3.52	-4.09
Year	-2.04	-1.90	-2.21	-2.49	-2.66	-2.78	-2.35	-2.14	-1.83	-0.88	+0.96	+3.09	+4.79	+5.44	+5.17	+4.09	+2.83	+1.59	+0.93	+0.08	-0.99	-2.04	-2.17	-2.47
Winter	-2.21	-1.77	-2.04	-1.57	-1.14	-1.25	-0.41	-0.31	-0.30	+0.16	+1.15	+2.42	+3.46	+4.01	+4.04	+3.25	+2.47	+1.22	+0.51	-0.91	-2.14	-2.81	-2.78	-3.05
Equinox	-2.33	-1.95	-2.20	-2.67	-2.57	-2.21	-1.49	-1.25	-1.16	-0.49	+1.43	+3.75	+5.57	+6.32	+5.72	+4.21	+2.29	+0.73	-0.03	-0.75	-1.87	-3.09	-2.98	-3.00
Summer	-1.59	-1.98	-2.41	-3.22	-4.27	-4.89	-5.15	-4.87	-4.03	-2.31	+0.29	+3.11	+5.33	+5.99	+5.75	+4.79	+3.72	+2.81	+2.32	+1.89	+1.03	-0.21	-0.75	-1.35
VERTICAL FORCE																								
Jan.	-12.9	-18.1	-17.7	-15.1	-13.6	-10.9	-8.7	-5.1	-1.6	+1.5	+2.2	+2.8	+3.1	+4.4	+9.8	+14.1	+10.5	+13.7	+15.0	+15.2	+12.0	+4.5	-3.0	-2.1
Feb.	-10.0	-13.9	-13.1	-15.8	-16.8	-17.7	-11.0	-8.9	-7.1	-5.4	-3.9	-1.9	-1.1	+1.7	+9.3	+14.2	+18.4	+17.5	+19.3	+22.9	+17.4	+8.9	-1.0	-2.0
Mar.	-15.1	-21.6	-23.3	-19.4	-13.6	-10.5	-8.0	-6.6	-7.9	-6.6	-5.7	-4.4	-0.4	+4.5	+13.5	+18.6	+22.8	+30.6	+29.1	+25.1	+14.9	+4.1	-7.5	-12.6
Apr.	-29.0	-29.9	-24.0	-14.5	-8.4	-5.6	-4.3	-1.7	+0.3	+1.8	+2.7	+2.4	+1.9	+6.8	+14.5	+16.4	+19.9	+24.6	+32.3	+26.7	+12.8	-2.1	-11.0	-32.6
May	-21.3	-23.4	-16.4	-14.0	-10.1	-7.0	-0.4	+3.6	+5.0	+4.2	+1.5	-1.4	-0.3	+5.3	+9.4	+14.2	+16.1	+15.2	+15.8	+14.9	+11.8	+3.3	-6.1	-19.9
June	-13.6	-14.1	-17.0	-14.6	-10.1	-4.7	-2.0	0.0	+0.6	-0.9	-2.5	-4.1	-3.9	+0.1	+6.0	+9.7	+12.6	+16.4	+15.8	+14.1	+12.3	+8.0	+0.3	-8.4
July	-6.4	-14.4	-10.9	-7.6	-4.6	-2.7	-3.0	-2.3	-1.5	-1.6	-2.6	-4.2	-3.4	-1.5	+1.9	+6.8	+11.8	+14.3	+13.2	+11.0	+7.8	+3.1	+0.4	-3.6
Aug.	-13.7	-12.3	-9.4	-6.0	-1.9	-2.3	-3.9	-4.6	-4.1	-4.6	-5.4	-5.4	-5.0	+0.8	+7.9	+14.5	+16.3	+15.9	+15.9	+12.5	+9.4	+3.9	-5.9	-12.6
Sept.	-24.2	-25.0	-23.6	-19.2	-16.6	-14.3	-12.5	-9.0	-3.2	+0.5	+2.3	+4.9	+6.3	+8.5	+13.3	+19.9	+26.4	+25.8	+24.8	+18.9	+11.4	+2.9	-4.5	-13.8
Oct.	-18.5	-13.1	-12.4	-13.6	-14.2	-10.2	-6.7	-3.1	-0.5	+1.7	+2.2	+2.7	+4.3	+8.1	+12.8	+19.8	+24.2	+23.7	+21.2	+10.6	-2.8	-8.9	-12.1	-15.2
Nov.	-21.6	-24.8	-21.2	-18.0	-21.1	-19.3	-15.2	-9.0	-3.1	+1.2	+3.2	+5.1	+8.6	+11.9	+9.9	+18.6	+25.4	+28.9	+28.6	+19.5	+11.7	+3.1	-7.5	-14.9
Dec.	-10.7	-13.0	-11.5	-12.6	-13.9	-13.1	-10.2	-7.9	-5.2	-3.7	-2.1	-1.0	+0.2	+2.1	+7.3	+13.2	+20.1	+18.0	+17.3	+16.4	+14.3	+5.4	-1.8	-7.6
Year	-16.4	-18.6	-16.7	-14.2	-12.1	-9.9	-7.2	-4.5	-2.4	-1.0	-0.7	-0.4	+0.9	+4.4	+9.6	+15.0	+18.7	+20.4	+20.7	+17.3	+11.1	+3.0	-5.0	-12.1
Winter	-13.8	-17.5	-15.9	-15.4	-16.3	-15.3	-11.3	-7.7	-4.3	-1.6	-0.1	+1.3	+2.7	+5.0	+9.1	+15.0	+18.6	+19.5	+20.1	+18.5	+13.9	+5.5	-3.3	-6.7
Equinox	-21.7	-22.4	-20.8	-16.7	-13.2	-10.1	-7.9	-5.1	-2.8	-0.7	+0.4	+1.4	+3.0	+7.0	+13.5	+18.7	+23.3	+26.2	+26.9	+20.3	+9.1	-1.0	-8.8	-18.5
Summer	-13.7	-16.1	-13.4	-10.5	-6.7	-4.2	-2.3	-0.8	0.0	-0.7	-2.3	-3.8	-3.1	+1.2	+6.3	+11.3	+14.2	+15.5	+15.2	+13.1	+10.3	+4.6	-2.8	-11.1

"Winter" comprises the four months, January, February, November, December; "Equinox" the months March, April, September, October; and "Summer" May to August.

INTERNATIONAL QUIET DAYS

Departures from the mean of the 24 hourly values (uncorrected for non-cyclic change)

58 LERWICK

	Hour G.M.T.																							
	0-1	1-2	2-3	3-4	4-5	5-6	6-7	7-8	8-9	9-10	10-11	11-12	12-13	13-14	14-15	15-16	16-17	17-18	18-19	19-20	20-21	21-22	22-23	23-24
HORIZONTAL FORCE																								
	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ
Jan.	-3.8	-3.8	-4.5	-1.8	+0.8	+2.2	+3.2	+4.4	+4.1	+2.8	-0.8	-2.2	-3.0	-1.6	-1.3	-0.8	-0.2	+1.2	-0.2	+0.2	+1.9	+1.6	+1.4	+0.2
Feb.	-0.8	-1.9	-4.5	-4.0	-2.5	+0.1	+2.2	+3.9	+3.5	+1.2	-1.9	-3.9	-4.6	-2.5	+0.9	-1.4	-0.1	+0.9	+1.4	+1.5	+2.1	+1.6	+3.9	+4.9
Mar.	+0.9	-0.2	-1.7	+0.2	+2.8	+4.3	+5.0	+3.2	-0.1	-5.4	-10.3	-11.0	-10.3	-6.6	-1.7	+2.4	+2.2	+3.3	+4.4	+6.2	+2.5	+1.8	+2.7	+5.4
Apr.	+6.7	+3.9	+2.7	+0.5	+1.1	+3.0	+3.1	-1.5	-8.1	-16.7	-24.7	-25.5	-18.9	-11.5	-7.5	+0.3	+5.3	+9.8	+15.7	+17.1	+12.9	+10.5	+11.3	+10.5
May	+7.2	+5.1	+4.4	+3.5	+3.0	+2.1	-2.8	-9.7	-19.6	-27.5	-31.4	-26.7	-17.4	-6.1	+1.6	+5.9	+9.6	+14.7	+17.8	+16.5	+14.8	+12.3	+12.0	+10.7
June	+7.8	+4.5	+4.8	+6.1	+5.2	+0.7	-5.8	-13.9	-23.2	-32.9	-34.4	-31.1	-21.0	-11.9	0.0	+8.5	+15.2	+22.1	+24.4	+24.1	+20.0	+13.5	+9.8	+7.5
July	+3.3	+1.6	+1.5	+3.7	+2.9	+0.4	-4.1	-7.1	-15.9	-24.4	-29.5	-25.9	-18.9	-9.4	-2.1	+5.7	+13.3	+15.2	+19.1	+19.5	+18.9	+15.8	+8.9	+7.5
Aug.	+4.7	+5.7	+4.2	+5.5	+4.3	+2.3	-3.7	-11.1	-18.6	-22.5	-24.5	-24.5	-17.5	-9.7	-3.2	+3.7	+6.3	+16.1	+17.5	+18.5	+14.6	+12.7	+10.3	+8.9
Sept.	+5.6	+2.3	+4.0	+3.7	+4.5	+5.6	+4.1	+0.1	-9.0	-18.3	-23.6	-23.7	-18.8	-13.9	-9.4	-4.3	+0.5	+8.6	+14.3	+15.3	+14.0	+14.1	+13.2	+11.1
Oct.	+4.8	+4.5	+4.2	+4.5	+5.5	+5.4	+4.7	+1.9	-4.6	-13.5	-19.8	-20.3	-16.2	-8.9	-4.0	-0.1	+4.3	+5.8	+8.1	+7.5	+6.4	+6.7	+6.8	+6.3
Nov.	+2.5	+2.8	+1.3	+2.9	+4.7	+5.2	+5.9	+5.9	+0.5	-8.4	-14.1	-15.5	-15.5	-11.8	-4.9	-0.9	+1.9	+4.4	+5.5	+6.7	+6.9	+6.4	+3.7	+3.9
Dec.	-2.4	-1.6	-0.7	+1.0	+3.2	+5.4	+5.6	+4.8	+3.5	-1.6	-7.4	-11.4	-11.4	-6.6	-1.3	+0.6	+2.2	+3.8	+4.8	+3.6	+3.3	+2.0	+0.4	+0.2
Year	+3.0	+1.9	+1.3	+2.1	+3.0	+3.1	+1.5	-1.6	-7.3	-13.9	-18.5	-18.5	-14.5	-8.3	-2.7	+1.6	+5.0	+8.8	+11.1	+11.4	+9.9	+8.3	+7.0	+6.4
Winter	-1.1	-1.1	-2.1	-0.5	+1.5	+3.2	+4.2	+4.7	+2.9	-1.5	-6.1	-8.3	-8.6	-5.6	-1.7	-0.6	+0.9	+2.6	+2.9	+3.0	+3.5	+2.9	+2.3	+2.3
Equinox	+4.5	+2.6	+2.3	+2.2	+3.5	+4.6	+4.2	+0.9	-5.5	-13.5	-19.6	-20.1	-16.1	-10.2	-5.7	-0.4	+3.1	+6.9	+10.6	+11.5	+8.9	+8.3	+8.5	+8.3
Summer	+5.7	+4.2	+3.7	+4.7	+3.9	+1.4	-4.1	-10.5	-19.3	-26.8	-29.9	-27.1	-18.7	-9.3	-0.9	+5.9	+11.1	+17.0	+19.7	+19.7	+17.1	+13.6	+10.3	+8.7
DECLINATION																								
	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ
Jan.	-0.89	-0.97	-0.48	-0.35	-0.35	-0.29	-0.27	-0.47	-0.52	-0.21	+0.13	+0.99	+1.37	+1.45	+1.14	+0.89	+0.59	+0.97	+0.87	+0.19	-0.98	-0.77	-1.13	-0.91
Feb.	-1.66	-0.96	-1.43	-1.74	-1.42	-1.18	-0.84	-0.66	-0.35	+0.80	+1.54	+2.72	+3.16	+3.34	+2.95	+1.28	+1.00	+0.84	-0.06	-0.76	-0.65	-1.56	-2.30	-2.06
Mar.	-2.30	-1.57	-1.24	-1.51	-1.74	-1.55	-1.54	-1.65	-1.56	-0.83	+0.56	+2.73	+4.16	+4.19	+3.26	+2.23	+1.12	+0.77	+0.24	+0.37	-0.28	-0.91	-0.76	-2.19
Apr.	-1.04	-1.23	-1.86	-2.43	-2.45	-2.76	-3.21	-3.49	-3.18	-2.19	-0.18	+2.53	+4.32	+5.41	+3.88	+2.65	+1.69	+1.56	+1.39	+0.89	+0.32	+0.03	-0.16	-0.49
May	-0.38	-0.60	-1.47	-2.44	-3.72	-4.82	-5.60	-5.74	-4.91	-3.18	-0.16	+2.98	+4.66	+4.68	+5.03	+3.98	+3.10	+2.26	+2.04	+1.48	+0.91	+0.96	+0.82	+0.12
June	-0.10	-1.98	-2.79	-3.24	-4.72	-5.68	-5.66	-5.70	-4.65	-2.48	-0.26	+2.54	+4.34	+4.70	+4.79	+3.86	+2.96	+2.68	+2.76	+2.48	+2.11	+1.70	+1.48	+0.86
July	-0.49	-0.97	-1.83	-2.07	-3.49	-5.00	-5.73	-6.11	-5.65	-3.77	-0.77	+2.01	+4.97	+6.85	+6.83	+5.93	+4.15	+2.46	+1.91	+1.75	+1.15	+0.07	-1.09	-1.11
Aug.	-0.54	-1.53	-1.92	-2.77	-4.06	-5.11	-5.24	-4.35	-3.46	-1.55	+1.04	+4.15	+6.04	+6.03	+4.42	+2.71	+1.52	+0.81	+0.94	+1.81	+1.62	+0.25	-0.38	-0.43
Sept.	-0.43	-0.35	-1.42	-2.23	-2.47	-2.55	-2.69	-2.99	-2.74	-1.69	+0.03	+2.21	+3.93	+4.29	+3.66	+2.69	+1.95	+1.35	+0.77	+0.03	-0.32	-0.03	-0.05	-0.95
Oct.	-0.43	-0.67	-0.69	-0.59	-0.65	-0.82	-1.41	-2.29	-3.25	-3.07	-0.81	+1.93	+3.63	+3.67	+3.09	+1.79	+1.01	+0.72	+0.57	+0.41	-0.37	-0.29	-0.43	-1.05
Nov.	-1.20	-1.28	-0.75	-0.56	-0.80	-0.76	-0.94	-1.28	-1.73	-1.90	-0.56	+1.80	+2.94	+3.48	+3.13	+2.02	+1.28	+0.82	+0.48	+0.24	-0.51	-1.60	-1.36	-0.96
Dec.	-0.54	-0.03	+0.20	+0.05	+0.02	-0.31	-0.82	-1.09	-1.28	-1.03	-0.34	+0.55	+1.42	+1.95	+1.52	+1.13	+0.84	+0.95	+0.78	+0.13	-0.52	-1.01	-1.30	-1.27
Year	-0.83	-1.01	-1.31	-1.66	-2.15	-2.57	-2.83	-2.99	-2.77	-1.76	+0.02	+2.26	+3.75	+4.17	+3.64	+2.60	+1.77	+1.35	+1.06	+0.75	+0.21	-0.26	-0.55	-0.87
Winter	-1.07	-0.81	-0.61	-0.65	-0.64	-0.63	-0.72	-0.87	-0.97	-0.59	+0.19	+1.51	+2.22	+2.55	+2.19	+1.33	+0.93	+0.89	+0.52	-0.05	-0.67	-1.23	-1.52	-1.30
Equinox	-1.05	-0.95	-1.30	-1.69	-1.83	-1.92	-2.21	-2.61	-2.68	-1.95	-0.10	+2.35	+4.01	+4.39	+3.47	+2.34	+1.44	+1.10	+0.74	+0.43	-0.16	-0.30	-0.35	-1.17
Summer	-0.38	-1.27	-2.00	-2.63	-4.00	-5.15	-5.56	-5.47	-4.67	-2.75	-0.04	+2.92	+5.00	+5.57	+5.27	+4.12	+2.93	+2.05	+1.91	+1.88	+1.45	+0.75	+0.21	-0.14
VERTICAL FORCE																								
	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ
Jan.	-1.8	-0.3	+0.4	+0.6	+0.2	-0.5	-1.2	-2.8	-4.0	-5.3	-4.8	-3.8	-2.2	-1.9	+0.4	+2.2	+4.2	+4.7	+5.2	+5.2	+3.6	+2.1	+0.8	-1.0
Feb.	-5.6	-2.9	-0.1	+0.6	-0.1	-1.7	-2.4	-2.9	-3.1	-3.6	-3.5	-2.9	-3.6	-4.3	-1.9	+2.8	+4.5	+5.7	+6.2	+5.9	+4.9	+6.6	+2.7	-1.3
Mar.	-2.9	-3.8	-3.0	-2.5	-1.8	-1.4	-1.5	0.0	+1.0	+0.7	-1.8	-4.4	-4.7	-4.2	-2.6	-0.7	+1.8	+2.6	+3.3	+3.6	+7.2	+8.7	+6.2	+0.2
Apr.	+2.7	+3.4	+3.4	+3.3	+0.6	-1.6	-1.5	-0.8	-1.8	-2.9	-4.4	-7.2	-8.1	-3.2	+0.2	+0.3	+3.6	+3.4	+0.7	+1.0	+3.6	+2.7	+1.2	+1.4
May	+2.8	+2.2	+2.2	+4.2	+4.0	+2.9	+2.8	+2.8	+0.2	-4.8	-9.6	-12.0	-11.4	-6.6	-0.8	+2.8	+4.4	+4.5	+3.4	+2.8	+2.4	+1.8	+0.2	-1.2
June	-5.1	-7.8	-7.1	-3.5	+0.1	+2.4	+2.3	+2.9	+1.9	-2.4	-7.1	-8.7	-9.7	-7.2	-4.3	+1.7	+8.5	+12.0	+12.1	+11.1	+7.7	+5.6	-1.5	-3.9
July	+0.6	-0.1	-0.4	+0.3	+0.4	+0.5	-0.4	-1.3	+0.4	-0.1	-3.6	-9.3	-9.4	-7.5	-4.8	-0.1	+5.6	+9.1	+8.4	+7.5	+5.8	+3.5	-1.8	-3.3
Aug.	-0.4	-1.1	-0.2	-0.3	+2.4	+1.3	+1.6	+1.5	-1.6	-5.5	-8.4	-10.3	-12.4	-8.9	-3.0	+0.5	+3.2	+4.5	+8.8	+10.1	+10.6	+6.1	+2.2	-0.7
Sept.	-1.1	-3.8	-6.8	-4.7	-2.6	-0.8	+0.7	+0.8	+2.2	+2.9	+0.4	-2.2	-3.7	-3.4	-0.4	+1.5	+2.2	+2.2	+3.7	+4.2	+3.8	+3.1	+2.2	-0.4
Oct.	+1.8	+2.6	+1.8	+2.0	+0.8	+0.5	0.0	+1.4	+2.8	+0.8	-2.4	-4.6	-5.6	-4.6	-1.2	+1.6	+1.4	+0.7	-1.0	-0.4	+0.2	+1.4	0.0	0.0
Nov.	-5.5	-7.4	-5.7	-4.2	-3.2	-1.9	-1.2	-0.8	+1.7	+4.6	+4.7	+2.6	+1.5	+0.2	+0.9	+2.2	+2.8	+2.7	+2.4	+2.2	+2.5	+0.8	+0.3	-2.2
Dec.	+1.2	-0.1	-1.0	-0.5	-0.6	-1.3	-1.2	-2.1	-2.4	-1.7	-0.8	+0.3	+0.8	-0.1	+1.2	+2.1	+2.2	+1.7	+1.4	+0.5	+0.2	+0.1	+0.2	-0.1
Year	-1.1	-1.6	-1.4	-0.4	0.0	-0.1	-0.2	-0.1	-0.2	-1.4	-3.4	-5.2	-5.7	-4.3	-1.4	+1.4	+3.7	+4.5	+4.5	+4.5	+4.4	+3.5	+1.1	-1.0
Winter	-2.9	-2.7	-1.6	+0.9	+0.9	-1.3	-1.5	-2.1	-1.9	-1.5	-1.1	-0.9	-0.9	-1.5	+0.1	+2.3	+3.4	+3.7	+3.8	+3.5	+2.8	+2.4	+1.0	-1.1
Equinox	+0.1	-0.4	-1.1	-0.5	-0.7	-0.8	-0.6	+0.3	+1.1	+0.4	-2.1	-4.6	-5.5	-3.9	-1.0	+0.7	+2.3	+2.2	+1.7	+2.1	+3.7	+4.0	+2.4	+0.3
Summer	-0.5	-1.7	-1.4	+0.2	+1.7	+1.8	+1.6	+1.5	+0.2	-3.2	-7.2	-10.1	-10.7	-7.5	-3.2	+1.2	+5.4	+7.5	+8.2	+7.9	+6.6	+4.3	-0.2	-2.3

INTERNATIONAL DISTURBED DAYS

Departures from the mean of the 24 hourly values (uncorrected for non-cyclic change)

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	Hour G.M.T.																							
	0-1	1-2	2-3	3-4	4-5	5-6	6-7	7-8	8-9	9-10	10-11	11-12	12-13	13-14	14-15	15-16	16-17	17-18	18-19	19-20	20-21	21-22	22-23	23-24
HORIZONTAL FORCE																								
Jan.	-36.5	-154.6	-53.0	-50.1	-32.0	-16.4	-4.9	+7.4	+19.0	+30.7	+24.6	+25.4	+26.9	+33.4	+25.0	+16.1	+20.0	+30.2	+18.1	+18.8	+14.8	+5.7	+12.8	+18.6
Feb.	+10.4	+1.5	-17.3	-36.6	-14.9	+6.3	+10.0	+16.3	+14.5	+5.6	-8.9	-18.7	-10.2	+1.1	+10.7	+8.2	+7.9	+8.9	+4.8	-3.5	+4.5	-0.6	-0.1	+0.1
Mar.	-12.6	-34.9	-52.0	-12.8	-6.8	-0.3	-8.0	-25.8	-19.4	-21.9	-23.2	-22.0	-13.2	+4.7	+46.4	+104.0	+29.4	+43.5	+23.8	+29.4	+7.4	+8.5	-16.4	-27.8
Apr.	-157.6	-48.1	-23.9	+2.6	+15.9	+18.3	+18.2	+16.3	+11.3	+4.2	-2.1	+9.5	+20.4	+31.7	+39.7	+36.4	+54.5	+65.7	+88.0	+68.3	-13.7	-71.8	-99.5	-84.3
May	-108.7	-34.7	-43.2	+17.5	-2.3	-9.5	+8.9	+9.1	-6.0	-22.7	-12.9	-0.7	+10.3	+17.5	+27.8	+41.7	+44.3	+59.5	+72.7	+63.1	+44.8	+7.3	-87.1	-96.7
June	-10.4	-12.0	-7.4	-21.4	-11.6	+0.6	-2.4	-11.0	-26.2	-29.8	-30.8	-30.2	-17.8	-2.4	+1.2	+9.8	+26.6	+38.4	+39.6	+34.2	+32.0	+18.2	+13.4	-0.6
July	-3.4	-16.3	-2.7	+4.4	+5.1	+2.5	-1.6	-9.5	-22.3	-29.2	-28.9	-24.5	-11.4	-2.5	+7.5	+17.8	+22.9	+35.9	+35.8	+20.1	+11.1	-2.2	-3.1	-5.5
Aug.	-9.6	-6.5	+4.9	+8.4	+1.5	-3.3	-19.6	-36.1	-46.9	-37.6	-38.5	-37.3	-33.4	+0.5	+22.7	+38.0	+45.9	+54.9	+39.2	+31.7	+28.3	+7.8	-4.7	-10.3
Sept.	-9.6	-24.3	-1.0	+4.6	+13.4	-0.5	-11.0	-12.2	-14.4	-23.1	-32.4	-26.0	-16.4	+4.1	+11.6	+15.8	+20.8	+41.3	+22.2	+21.2	+10.6	+5.7	-2.8	+2.4
Oct.	-22.4	-5.3	-8.8	-7.1	+3.0	+19.3	+16.8	+7.5	-6.4	-13.9	-20.6	-12.1	+5.2	+13.3	+8.6	+29.1	+34.4	+32.5	+18.6	+4.1	-11.0	-33.1	-33.4	-18.3
Nov.	-33.6	-48.8	-32.1	-17.6	-14.8	-19.2	-12.0	-11.0	-21.3	-20.4	-32.6	-28.4	-1.4	+29.8	+160.1	+106.8	+35.2	+65.0	+56.6	-13.4	-19.7	-42.2	-41.0	-44.0
Dec.	-6.0	-4.3	-4.5	-5.8	+4.9	+7.1	+12.6	+8.9	+4.7	-0.6	-7.3	-11.3	-5.6	+2.1	-3.5	+4.4	+3.3	+15.9	+53.0	+42.7	-8.3	-18.0	-42.1	-42.3
Year	-33.3	-32.4	-20.1	-9.5	-3.2	+0.4	+0.6	-3.3	-9.5	-13.2	-17.8	-14.7	-3.9	+11.1	+29.8	+35.7	+28.8	+41.0	+39.4	+26.4	+8.4	-9.6	-25.3	-25.7
Winter	-16.4	-51.5	-26.7	-27.5	-14.2	-5.5	+1.4	+5.4	+4.2	+3.8	-6.1	-8.3	+2.4	+16.6	+48.1	+33.9	+16.6	+30.0	+33.1	+11.1	-2.2	-13.8	-17.6	-16.9
Equinox	-50.5	-28.1	-21.4	-3.2	+6.4	+9.2	+4.0	-3.5	-7.2	-13.8	-19.6	-12.7	-1.0	+13.5	+26.6	+46.3	+34.8	+45.7	+38.1	+30.7	-1.7	-22.7	-38.0	-32.0
Summer	-33.0	-17.4	-12.1	+2.2	-1.8	-2.4	-3.7	-11.9	-25.3	-29.8	-27.8	-23.2	-13.1	+3.3	+14.8	+26.8	+34.9	+47.2	+46.8	+37.3	+29.1	+7.8	-20.4	-28.3
DECLINATION																								
Jan.	-4.36	-5.18	-10.21	-1.96	-0.46	+0.04	+5.38	+2.82	+1.83	+0.46	+2.56	+2.18	+3.74	+5.72	+8.55	+3.72	+3.50	-2.66	-2.16	-4.32	-4.03	-2.44	-0.60	-2.12
Feb.	-1.50	-1.03	-2.33	-1.46	-2.17	-4.63	-1.94	-0.35	-0.21	+1.74	+2.63	+4.71	+6.62	+6.55	+4.33	+5.10	+3.91	+0.13	-2.14	-3.85	-4.83	-2.70	-2.09	-4.49
Mar.	-1.08	-0.65	-7.04	-8.93	-4.62	-3.39	-1.64	+1.15	+3.56	+1.57	+3.40	+5.11	+6.68	+8.13	+9.18	+5.67	+6.14	+1.45	-4.72	-4.83	-0.80	-7.39	-4.20	-2.75
Apr.	-11.41	-5.81	-3.21	-1.53	-3.27	-2.48	-1.61	-1.53	-1.47	+0.51	+1.83	+4.77	+6.99	+8.99	+7.63	+7.05	+7.41	+7.04	+4.19	+1.81	-5.43	-5.09	-8.63	-6.75
May	-7.49	-7.75	-6.41	-3.41	-5.27	-3.85	-4.07	-4.41	-4.51	-1.51	+1.71	+6.25	+7.31	+7.75	+9.31	+9.35	+8.31	+8.05	+7.47	+0.71	+0.91	-2.87	-4.31	-11.27
June	-6.15	-4.13	-4.23	-4.95	-3.85	-6.10	-7.07	-7.59	-4.97	-2.11	-0.71	+2.75	+5.39	+6.55	+7.21	+8.67	+7.69	+5.68	+4.55	+3.19	+3.79	-0.03	-1.09	-2.49
July	+0.26	-0.25	-2.12	-4.89	-7.10	-7.01	-7.20	-5.73	-3.38	-1.91	+0.24	+1.81	+4.92	+6.01	+5.70	+5.71	+5.40	+4.83	+4.56	+3.55	-2.04	-1.19	+0.14	-0.31
Aug.	-5.54	-5.24	-6.66	-4.98	-4.78	-3.17	-4.18	-0.90	-1.00	-0.92	+0.58	+4.26	+8.02	+8.78	+9.04	+7.32	+5.06	+3.17	+1.02	+1.58	-0.42	-2.88	-5.24	-2.92
Sept.	-6.63	-0.96	-0.70	-2.31	-3.14	+1.20	+6.71	+3.90	-0.14	-0.15	+1.96	+3.66	+5.57	+5.86	+5.90	+5.65	+1.06	-0.74	-2.99	-3.30	-6.10	-5.69	-4.12	-4.50
Oct.	-1.56	-2.02	-3.12	-2.14	-1.14	-0.67	+0.10	-0.32	-0.70	-0.02	+1.96	+5.76	+7.70	+10.22	+11.06	+9.44	+0.26	-4.43	-1.60	-3.58	-5.84	-7.48	-9.22	-2.66
Nov.	-2.55	-2.72	-3.58	-2.47	+1.48	+0.90	+3.99	+1.26	+0.66	+0.17	+0.52	+2.60	+4.81	+8.00	+9.64	+7.23	+5.96	-1.66	+1.65	-4.22	-7.40	-6.27	-6.76	-11.24
Dec.	-6.82	-2.71	-1.04	-1.03	-3.39	-0.50	-0.55	+0.29	+0.18	+0.49	+1.82	+3.51	+4.54	+6.09	+6.66	+7.89	+5.49	+2.42	+2.67	+2.25	-2.82	-9.17	-8.06	-8.21
Year	-4.57	-3.20	-4.22	-3.34	-3.14	-2.47	-1.01	-0.95	-0.85	-0.14	+1.54	+3.95	+6.02	+7.39	+7.85	+6.90	+5.02	+1.94	+1.04	-0.92	-2.92	-4.43	-4.51	-4.98
Winter	-3.81	-2.91	-4.29	-1.73	-1.13	-1.05	+1.72	+1.01	+0.61	+0.71	+1.88	+3.25	+4.93	+6.59	+7.29	+5.99	+4.71	-0.44	+0.01	-2.53	-4.77	-5.15	-4.38	-6.51
Equinox	-5.15	-2.36	-3.52	-3.73	-3.04	-1.33	+0.89	+0.80	+0.31	+0.48	+2.29	+4.83	+6.73	+8.30	+8.44	+6.95	+3.72	+0.83	-1.28	-2.47	-4.54	-6.41	-6.54	-4.17
Summer	-4.73	-4.34	-4.85	-4.56	-5.25	-5.03	-5.63	-4.66	-3.47	-1.61	+0.45	+3.77	+6.41	+7.27	+7.81	+7.76	+6.61	+5.43	+4.40	+2.26	+0.56	-1.74	-2.63	-4.25
VERTICAL FORCE																								
Jan.	-47.9	-62.5	-72.1	-73.5	-68.7	-51.4	-36.5	-13.1	+8.7	+29.1	+29.9	+30.5	+30.7	+31.5	+53.3	+73.7	+44.3	+49.2	+38.9	+27.7	+13.1	-2.1	-21.7	-11.1
Feb.	-4.4	-17.9	-26.2	-55.5	-45.6	-37.5	-15.6	-10.1	-6.2	-3.1	+1.6	+5.1	+8.4	+17.9	+38.4	+32.9	+33.4	+31.5	+30.8	+33.1	+20.0	-1.9	-20.4	-8.7
Mar.	-35.4	-50.9	-66.8	-55.4	-31.4	-25.7	-21.4	-20.2	-25.0	-16.5	-6.8	-5.4	+4.4	+23.3	+47.4	+63.0	+68.4	+86.3	+76.4	+48.0	+7.8	-4.1	-28.2	-31.8
Apr.	-87.6	-107.7	-75.3	-42.6	-19.5	-6.7	+0.8	+8.3	+14.5	+19.8	+23.3	+22.1	+19.2	+23.3	+36.9	+31.6	+30.1	+41.1	+61.6	+57.1	+19.1	-5.0	+5.7	-70.1
May	-51.1	-80.5	-64.3	-49.3	-35.1	-30.5	-6.7	+11.3	+20.5	+25.9	+19.3	+11.5	+22.7	+40.9	+43.7	+40.9	+38.1	+30.9	+31.7	+35.1	+26.7	+7.7	-13.9	-75.5
June	-40.4	-43.3	-64.4	-54.7	-44.7	-23.8	-7.3	+1.3	+9.2	+7.5	+8.2	+9.1	+8.6	+16.7	+28.6	+32.1	+35.3	+41.0	+33.5	+30.1	+20.6	+13.5	+1.4	-18.1
July	-19.8	-37.5	-24.6	-15.2	-5.4	-0.5	-1.4	-1.0	-0.8	-1.1	-2.4	+1.0	+3.2	+7.7	+18.0	+24.6	+24.0	+21.1	+23.6	+16.8	+3.0	-14.3	-9.6	-9.4
Aug.	-52.4	-48.1	-29.6	-15.8	-13.4	-18.9	-22.8	-23.0	-15.4	-9.1	-5.0	+0.2	+7.8	+24.3	+41.6	+55.2	+50.8	+45.9	+36.4	+30.4	+19.6	+7.5	-27.6	-38.6
Sept.	-47.4	-58.2	-57.4	-37.6	-31.4	-35.1	-48.0	-34.2	-15.0	-3.0	+7.2	+19.0	+22.6	+30.4	+33.4	+40.4	+65.4	+69.1	+63.6	+42.6	+24.0	-5.0	-16.0	-29.4
Oct.	-55.6	-44.5	-43.8	-51.9	-54.0	-31.9	-13.4	-2.1	+3.0	+8.1	+14.4	+21.5	+26.8	+41.3	+45.4	+64.3	+84.4	+81.1	+78.2	+26.5	-35.0	-49.1	-53.4	-60.3
Nov.	-35.4	-71.5	-71.0	-63.7	-59.3	-62.0	-54.3	-33.1	-14.8	-0.1	+10.8	+18.9	+31.4	+46.1	+25.0	+63.7	+84.5	+100.6	+80.7	+56.5	+31.2	-1.9	-33.6	-48.7
Dec.	-29.6	-37.9	-26.3	-30.0	-36.3	-32.7	-25.2	-15.1	-9.1	-5.8	-0.5	+3.5	+5.2	+8.5	+20.5	+33.0	+55.9	+50.5	+56.0	+46.3	+36.3	-3.4	-27.7	-36.1
Year	-42.3	-55.0	-51.8	-45.4	-37.1	-29.7	-21.0	-10.9	-2.5	+4.3	+8.3	+11.4	+15.9	+26.0	+26.0	+46.3	+51.2	+54.0	+50.9	+37.5	+15.5	-4.8	-20.4	-36.5
Winter	-29.3	-47.5	-48.9	-55.7	-52.5	-45.9	-32.9	-17.9	-5.3	+5.0	+10.5	+14.5	+18.9	+26.0	+34.3	+50.8	+54.5	+57.9	+51.6	+40.9	+25.1	-2.3	-25.9	-26.1
Equinox	-56.5	-65.3	-60.8	-46.9	-34.1	-24.9	-20.5	-12.1	-5.6	+2.1	+9.5	+14.3	+18.3	+29.6	+40.8	+49.8	+62.1	+69.4	+69.9	+43.5	+4.0	-15.8	-23.0	-47.9
Summer	-40.9	-52.3	-45.7	-33.7	-24.7	-18.4	-9.5	-2.9	+3.4	+5.8	+5.0	+5.5	+10.6	+22.4	+33.0	+38.2	+37.1	+34.7	+31.3	+28.1	+17.5	+3.6	-12.4	-35.4

"Winter" comprises the four months January, February, November, December; "Equinox" the months March, April, September, October; and "Summer" May to August.

RANGE OF MEAN DIURNAL INEQUALITIES FOR THE
MONTHS, YEAR AND SEASONS OF 1955

AVERAGE DEPARTURES

39

The ranges are derived from the diurnal inequalities
printed in Tables 57 to 59

Arithmetical averages of diurnal inequalities in
Tables 57 to 59 taken regardless of sign

60 LERWICK

	All days			Quiet days			Disturbed days		
	H	D	Z	H	D	Z	H	D	Z
	γ	γ	γ	γ	γ	γ	γ	γ	γ
Jan.	37.0	6.50	33.3	8.9	2.58	10.5	188.0	18.76	147.2
Feb.	19.1	7.10	40.6	9.5	5.64	12.2	52.9	11.45	93.9
Mar.	33.8	10.57	53.9	17.2	6.49	13.4	156.0	18.11	153.1
Apr.	56.7	11.39	64.9	42.6	8.90	11.7	245.6	20.40	169.3
May	57.2	10.43	39.5	49.2	10.77	16.5	181.4	20.62	124.2
June	60.0	11.56	33.4	58.8	10.49	21.8	70.4	16.26	105.4
July	55.0	11.80	28.7	49.0	12.96	18.5	65.1	13.21	62.1
Aug.	50.4	11.11	30.0	43.0	11.28	23.0	101.8	15.70	107.6
Sept.	44.1	8.90	51.4	39.0	7.28	11.0	73.7	13.34	127.3
Oct.	31.4	9.24	42.7	28.4	6.92	8.4	67.8	20.28	144.7
Nov.	41.3	8.53	53.7	22.4	5.38	12.1	208.9	20.88	172.1
Dec.	18.8	8.02	34.0	17.0	3.25	4.6	95.3	17.06	93.9
Year	34.9	8.22	39.3	29.9	7.16	10.2	74.3	12.83	109.0
Winter	19.1	7.09	37.6	13.3	4.07	6.7	99.6	13.80	113.6
Equinox	37.5	9.41	49.3	31.6	7.07	9.5	96.8	14.98	135.2
Summer	55.2	11.14	31.6	49.6	11.13	18.9	80.2	13.44	90.5

61 LERWICK

	All days			Quiet days			Disturbed days		
	H	D	Z	H	D	Z	H	D	Z
	γ	γ	γ	γ	γ	γ	γ	γ	γ
Jan.	5.7	1.72	9.1	2.0	0.72	2.5	29.0	3.37	38.4
Feb.	3.3	2.10	10.8	2.4	1.47	3.3	9.2	2.98	21.1
Mar.	8.2	2.56	13.6	3.9	1.64	2.9	24.8	4.34	35.4
Apr.	11.7	3.22	13.6	9.5	2.06	2.6	41.7	4.85	34.5
May	13.5	3.19	10.0	11.8	2.75	3.9	35.4	5.59	33.9
June	13.3	3.19	8.0	14.5	3.11	5.7	17.8	4.62	24.7
July	12.5	3.16	5.9	11.4	3.17	3.5	13.6	3.59	11.9
Aug.	12.1	2.92	8.1	11.3	2.61	4.4	23.7	4.07	26.6
Sept.	9.9	2.35	13.8	10.1	1.74	2.5	14.5	3.46	34.8
Oct.	6.9	2.21	10.9	7.3	1.40	1.7	16.0	3.87	41.3
Nov.	8.0	2.00	14.6	5.9	1.35	2.7	37.8	4.07	45.8
Dec.	4.4	1.95	9.5	3.7	0.79	1.0	13.3	3.69	26.3
Year	7.6	2.41	10.1	7.1	1.80	2.3	18.5	3.47	29.8
Winter	4.5	1.89	10.8	3.1	1.03	1.9	17.2	3.23	32.5
Equinox	8.2	2.50	12.5	7.6	1.69	1.6	21.3	3.71	34.4
Summer	12.2	3.09	7.6	12.2	2.84	4.0	20.9	4.39	23.0

NON-CYCLIC CHANGE

62 LERWICK

	All days			Quiet days			Disturbed days		
	H	D	Z	H	D	Z	H	D	Z
	γ	γ	γ	γ	γ	γ	γ	γ	γ
Jan.	+0.2	-0.03	-0.2	+3.9	+0.44	-0.5	-4.0	+1.22	-11.9
Feb.	-0.4	+0.01	+0.6	+7.2	-0.46	+1.6	-9.7	-0.77	-4.4
Mar.	-0.5	-0.01	-1.2	+2.0	+0.24	+0.4	-12.1	+0.15	+7.2
Apr.	-0.5	-0.01	-0.4	+3.0	+0.28	-0.7	+9.9	+4.49	+33.4
May	+0.8	-0.03	+1.0	+0.2	+0.05	-3.9	-10.6	+0.56	-16.8
June	+0.1	+0.06	+0.6	-0.8	+0.08	-1.4	-5.2	+0.68	+5.5
July	-0.3	-0.04	0.0	+2.3	-0.64	-3.6	-11.5	+0.18	-7.5
Aug.	0.0	-0.17	-1.0	-0.5	+0.10	-1.7	+3.7	+0.50	+10.5
Sept.	-0.7	-0.03	-1.9	+3.2	-0.34	-4.7	-0.6	+2.17	+6.0
Oct.	-1.0	0.00	+1.6	-2.1	-1.30	-3.3	-11.8	+0.39	-16.0
Nov.	+1.5	+0.10	+1.8	+2.0	+0.23	-1.6	-18.8	-4.26	-23.4
Dec.	+0.2	-0.27	-0.4	+2.4	-0.25	-2.8	-27.6	-1.28	-8.4
Year	-0.1	-0.03	0.0	+1.9	-0.13	-1.9	-8.2	+0.34	-2.1
Winter	+0.4	-0.05	+0.5	+3.9	-0.01	-0.8	-15.0	-1.27	-12.0
Equinox	-0.7	-0.01	-0.5	+1.5	-0.28	-2.1	-3.7	+1.60	+7.7
Summer	+0.1	-0.05	+0.1	+0.3	-0.10	-2.7	-5.9	+0.48	-2.1

"Winter" comprises the four months January, February, November, December; "Equinox" the months March, April, September, October, and "Summer" May to August.

MEAN MONTHLY AND ANNUAL VALUES OF TERRESTRIAL MAGNETIC ELEMENTS
For all, a, quiet, q, and disturbed, d, days for H, D and Z and for all days for N, W, I and F

63 LERWICK

	Horizontal force			Declination (west)			Vertical force			North component all days	West component all days	Inclination (north) all days	Total force all days
	a	q	d	a	q	d	a	q	d				
	14,000 γ +			10° +			46,000 γ +						
	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ
Jan.	455	460	430	11.6	12.0	10.2	1144	1148	1136	14227	2558	72 57.2	49311
Feb.	459	462	454	11.1	11.5	10.8	1147	1149	1142	14231	2557	72 57.0	49315
Mar.	460	463	466	10.6	11.1	10.5	1150	1148	1151	14233	2555	72 57.0	49318
Apr.	456	469	427	9.9	10.6	7.9	1146	1149	1139	14229	2551	72 57.2	49313
May	462	473	438	9.5	10.1	7.9	1150	1153	1136	14236	2551	72 56.9	49318
June	471	470	466	9.5	9.1	8.9	1154	1155	1145	14244	2552	72 56.4	49325
July	473	472	471	8.8	8.5	8.7	1154	1155	1154	14246	2549	72 56.3	49325
Aug.	472	475	467	8.5	8.7	9.0	1156	1156	1157	14245	2548	72 56.3	49327
Sept.	466	469	464	7.8	7.7	7.1	1155	1157	1153	14240	2544	72 56.7	49324
Oct.	465	471	452	7.2	7.5	5.9	1162	1160	1157	14239	2542	72 57.0	49330
Nov.	463	463	464	6.5	6.3	6.1	1174	1174	1181	14239	2539	72 57.3	49341
Dec.	470	477	464	6.4	6.5	5.7	1174	1171	1176	14245	2539	72 56.8	49343
Year	464	469	455	9.0	9.1	8.2	1156	1156	1152	14238	2549	72 56.8	49324

2014

In the interests of brevity there have been omitted from Table 64 all dates on which the sky throughout the evening remained completely overcast and on which, therefore, no opportunity arose of determining whether or not aurora occurred. The nights on which aurora was actually seen are indicated by the symbol Φ . The nights on which aurora was not seen, despite at least an occasional interval of more or less clear sky, are indicated by the symbol $\cdot\cdot$; in the latter case also, remarks on the weather are added to assist the reader in judging how far the fact of no observation of aurora may be taken as indicating that there was not actual aurora.

a = Conditions favourable for seeing aurora
b = Unfavourable for faint aurora (moonlight, mist, Cs, etc.)
but not such as to mask bright aurora
c = Cloudy, but aurora not seen in clear intervals
ca, cb = Have been used for "Cloudy, with conditions a or b in the intervals"
Changing conditions have been indicated by a hyphen, e.g. a-c

65 BRITISH ISLES

Date	Φ_1	Forms	Time	Φ_2	Date	Φ_1	Forms	Time	Φ_2	Date	Φ_1	Forms	Time	Φ_2
JANUARY					MARCH (contd.)					SEPTEMBER				
1-2	61	HA, R	0120-0145		28-29	62	G	2255-2315		9-10	63	HA	0300	
5-6	63	RA	0045-0323		30-31	59	HA	2230-2400	64	10-11	63	G	2230	
11-12	62	HA, RA, RB	2100-0050	68	31-1	63	G	2200-2240		11-12	61	S, R	2010-2400	
12-13	59	G, R	2100-0001	69						12-13	61	G	2200-0154	
13-14	59	G	2255-0600							15-16	63	G	0100	
14-15	61	G	1900-0600							16-17	61	G	2350-0300	
16-17	60	G	2000-0330		APRIL					17-18	60	G	2100-0300	
17-18	55	HA, RA, RB, F	1900-0700	60						20-21	59	RB	2140-2255	
18-19	56	HA, RA, RB	1830-0700	64	1-2	61	HA	2300-2400		22-23	63	HB	2200	
19-20	58	HA, RA, HB	1700-0600		4-5	61	HA	2130-2330		23-24	60	G, S	2015-0200	
20-21	63	RB	2300-0130		9-10	62	G	0400		27-28	61	G	0350-0500	
21-22	58	G	2000-2250		10-11	59	G	2045-2100		30-1	63	G		
23-24	63	G			11-12	63	HA	0123-0300						
27-28	58	HA, RA, RB	1930-0400	66	12-13	57	HA, HB, R	2025-2400	66	OCTOBER				
28-29	60	HA, HB	2030-0001		13-14	55	HA, R	2000-0250	65					
29-30	61	HA, RA	2100-0030		15-16	62	G	2230-2300		1-2	63	G		
30-31	62	HA	2100-2145		16-17	61	G	2130-2245		2-3	63	G		
FEBRUARY					17-18	61	RB	0150-0445		9-10	63	HA	2350	67
4-5	61	RB	2130-2150		20-21	61	HB	2230-0200		15-16	59	G	0001	
5-6	63	G	1855		22-23	62	G	2145-2200		20-21	63	S	2010-2100	
6-7	63	G	2045-2330		23-24	62	G	2200-2400		21-22	60	HA	2000-2335	
8-9	61	G	1850-1950 and 0400-0530		24-25	56	HA	2205-2354	66	22-23	61	HA	2200 and 0001	
			1830-1940		26-27	61	HA	2230-2252	59					
			1900-0200		27-28	56	HA, RB, F	2200-0230		24-25	60	HB	0130-0230	
			1830-0200	64	28-29	61	HA, HB	2345-0200		25-26	60	RA	1900-0525	63
			1900-2045		29-30	62	G	2215-2230		26-27	59	RA	1945-0400	
			2030-0500		30-1	62	G	0300		29-30	61	R	1845	
			1900-2100							30-31	63	G	0001	
			2000-2100 and 0400		MAY					31-1	63	RA	2100 and 0300	
			0455-0550		5-6	62	G	2300-2330						
			1900-0150		6-7	60	HA	0030	64					
			0500		10-11	56	G	2300-2400		NOVEMBER				
			0200-0330		12-13	60	G	2400-0100		4-5	59	HA, RA	2000-0300	64
			1900-0300		14-15	60	G	2400-0200		5-6	62	G, R	2115-2120	
			2235-0245		15-16	58	G	2220-0130		8-9	61	G	1900-2245	
			2248-0400		17-18	60	G	2330-0145		10-11	61	G, HB	2300-0200	
MARCH					25-26	54	RA	2243-0001		11-12	61	HA	1730-1800	
5-6	63	G			JUNE					12-13	58	HA, RA, S	1730-0200	64
6-7	63	G			8-9	59	G, R	0001-0200		13-14	62	G	0001	
7-8	63	G			18-19	61	RA	2350-0001		15-16	58	HA	1900-0600	64
9-10	56	HA, RA	1930-0200	63	JULY					16-17	60	HA, RA	1810-2300	65
10-11	60	G	1950-2300		3-4	55	G, R	0020-0035		18-19	56	HA, RA	1810-2200	59
11-12	60	HA, RA	2030-0345	64	4-5	60	G	0210		19-20	56	HA, RA, S	2200-0445	63
12-13	57	HA	2030-2330		15-16	61	G	0230		20-21	56	HA, RA, RB, S	1700-2320	63
13-14	60	G	2100-2300		16-17	59	PA	0030		24-25	57	HA	2300-0400	
14-15	63	G	2330		25-26	62	G			DECEMBER				
15-16	59	HA	2130-0300	63	AUGUST					1-2	57	RB, F	1730-2200	63
16-17	58	HA	2050-0145	62	3-4	62	G	0400		3-4	60	G	2000-2200	
17-18	60	G	2215-2245		5-6	60	HA	0120-0135		7-8	61	G	0150-0245	
18-19	62	G	0100		10-11	61	G	2340-2351		8-9	61	G	1815-2140	
20-21	63	G	2300		13-14	60	G	2250		10-11	62	G, R	1915-1930	
21-22	61	G	2000		14-15	61	G	2249-0030		11-12	61	G	2300	
23-24	56	HA, PA	2045-2150		15-16	61	G	2247-2254		15-16	60	G	2300	
25-26	63	G			20-21	61	G	2300		19-20	59	HA, RA, RB, S	1830-0500	
26-27	61	G	2320-2400							20-21	60	HA	2200-0400	
										21-22	61	HA, R	1745-0100	
										24-25	60	G, R	0345-0645	
										26-27	62	HB	2040	

The above table was compiled in the Balfour Stewart Auroral Laboratory of the University of Edinburgh from all data available for the longitude of the British Isles, using mainly observations made at British Meteorological Office stations and by British voluntary observers, but including also some of the data from the Faroes, from Ireland and from France. Acknowledgements are made to the Directors of the Meteorological Services of Denmark (for the Faroes data), Ireland and France.

In the table, Φ_1 is the lowest geomagnetic latitude from which aurora was seen in the longitudes considered. On any night, if more than a horizon glow was seen from the British Isles, the other forms reported are listed and the period of time (G.M.T.) during which the display was observed from the British Isles is stated. The standard abbreviations are used for the forms and types of activity: G = horizon glow; HA = homogeneous arc; PA = pulsating arc; RA = rayed arc; HB = homogeneous band; RB = rayed band; R = rays; S = surface; P = pulsating; F = flaming. If the forms could not be determined because of cloud or twilight, but auroral light was positively identified, the abbreviation L is used. Under Φ_2 is given the lowest geomagnetic latitude of overhead occurrence in the longitudes considered. In the absence of direct visual observations, Φ_2 is deduced from elevation measurements made in other latitudes, assuming a height of 100 Km. for the lower edges of arcs and bands.

Because of varying observing conditions, these data are in some cases incomplete; aurora may have been overhead in latitudes lower than those listed, and other forms may have occurred. Fuller details may be obtained from the Laboratory on request.

ESKDALEMUIR

ESKDALEMUIR OBSERVATORY

Latitude 55°19' N.
Longitude 3°12' W.
G.M.T. of Local Mean Noon .. 12h.13m.
Height of site above M.S.L. .. 235 to 250 metres

INTRODUCTION

Reference should be made to the 1938 volume for details of site and meteorological instruments. The only important change since that date was the replacement of the Beckley rain-gauge by the Dines tilting-siphon recorder in September 1940.

Notes on the meteorological summaries

The extreme temperatures during the year were 300·3°A. (81·1°F.) on 24 August and 260·0°A. (8·6°F.) on 14 January. With a mean temperature of 264·9°A. (23·9°F.), 13 January was the coldest day of the year and 23 August, with 293·4°A. (59·0°F.) was the hottest. There were sixteen "ice-days", that is, days with maximum temperature below 273°A.; these occurred on 11, 12, 13, 14, 15, 16, 17 January, 17, 19, 20, 21, 22, 23, 26, 27 February, 21 December.

The total rainfall for the year, 1114·5mm. (43·88in.), was only 78 per cent of the average. Snow fell on 42 days.

The total duration of bright sunshine, 1533·5hr., was almost 30 per cent greater than average.

The highest gust of wind during the year, 27·0 m./sec. (52 knots) and the highest hourly speed, 15·9 m./sec. (31 knots), both occurred on 28 December.

The results of the harmonic analysis of the diurnal inequalities of pressure are set out in the accompanying table. For purposes of comparison the corresponding data are also given derived from the mean inequalities for the period 1911-1920 by Dr. A. Crichton Mitchell*.

*MITCHELL, A.C.; On the diurnal variation of atmospheric pressure at Eskdalemuir and Castle O'er, Dumfries-shire. *Quart. J.R. met. Soc. London*, 50, 1924, p.127.

TABLE 66 - HARMONIC COEFFICIENTS OF THE DIURNAL INEQUALITY OF ATMOSPHERIC PRESSURE

Values of c_n , α_n , in the series $\sum c_n \sin(15nt + \alpha_n)$, t being local mean time reckoned in hours from midnight

	c_1		α_1		c_2		α_2		c_3		α_3		c_4		α_4	
	1955	1911-1920	1955	1911-1920	1955	1911-1920	1955	1911-1920	1955	1911-1920	1955	1911-1920	1955	1911-1920	1955	1911-1920
	mb.	mb.	°	°	mb.	mb.	°	°	mb.	mb.	°	°	mb.	mb.	°	°
January	0.31	0.09	145	346	0.27	0.23	138	152	0.18	0.13	345	345	0.07	0.05	253	214
February	0.28	0.12	145	215	0.38	0.27	115	138	0.09	0.08	341	341	0.06	0.04	123	68
March	0.35	0.13	92	185	0.30	0.30	140	145	0.04	0.05	333	335	0.08	0.05	31	25
April	0.13	0.21	342	92	0.28	0.30	155	155	0.05	0.02	194	156	0.03	0.05	16	356
May	0.05	0.23	43	53	0.33	0.27	141	147	0.08	0.07	195	160	0.02	0.03	341	330
June	0.17	0.15	95	54	0.22	0.23	143	146	0.08	0.08	168	161	0.01	0.02	73	326
July	0.40	0.17	42	69	0.25	0.21	138	141	0.11	0.08	130	156	0.01	0.02	355	300
August	0.23	0.11	59	115	0.32	0.24	135	148	0.04	0.06	202	157	0.05	0.05	298	331
September	0.18	0.12	170	88	0.35	0.31	156	152	0.04	0.01	89	111	0.08	0.05	337	345
October	0.09	0.11	55	76	0.27	0.31	170	159	0.10	0.06	334	8	0.03	0.04	5	33
November	0.24	0.13	299	183	0.31	0.24	165	168	0.13	0.10	8	9	0.02	0.01	232	146
December	0.17	0.14	203	97	0.30	0.21	166	147	0.11	0.12	17	4	0.05	0.07	212	213
Arithmetic mean	0.22	0.14			0.30	0.26			0.09	0.07			0.04	0.04		
Year	0.09	0.09	98	91	0.28	0.26	145	150	0.02	0.02	17	42	0.02	0.02	313	342
Winter	0.13	0.04	173	165	0.29	0.24	145	151	0.12	0.11	357	355	0.03	0.02	212	189
Equinox	0.11	0.11	92	104	0.30	0.31	155	153	0.02	0.02	338	4	0.05	0.04	7	9
Summer	0.20	0.15	57	67	0.28	0.24	139	146	0.07	0.07	165	159	0.02	0.03	316	324

"Winter" comprises the four months January, February, November, December; "Equinox" the months March April, September, October; and "Summer" May to August.

Terrestrial magnetism

Reference should be made to the 1938 volume for notes on the instruments and tables.

Notes on the results

Comparing mean values on all days of 1955 with those for 1954, it is noted that H increased by 17γ , $D(\text{West})$ decreased by 7.1 and Z increased by 22γ . The changes in the deduced quantities N , W , I , and F are $+24\gamma$, -30γ , -0.6 and $+27\gamma$. If these changes are compared with those for previous years the discontinuities introduced on 1 January 1934 in H and Z and the components derived from them must be kept in mind.

The ranges between the extreme values recorded during 1955 were H 880γ , D 86.5 and Z 860γ . The range of $1^{\circ}26.5$ in declination is equivalent to a range of about 420γ in the component of force perpendicular to the magnetic meridian.

The K index is fully described in *Terrestrial Magnetism and Atmospheric Electricity**. Briefly, a figure is allotted on a scale 0-9 to each 3-hour interval. The figure is a measure of the range of magnetic force during that period, measured from a curved line which represents the normal quiet day variation. The figures are first allotted from the H magnetograms and then increased, if necessary, by inspection of the D and Z curves so that the most disturbed component determines the final figure. The scale of ranges in γ

*BARTELS, J., KECK, N.H. and JOHNSTON, H.F.: The three-hour-range index measuring geomagnetic activity. *Terr. Magn. atmos. Elect.*, Baltimore, Md. 44, 1939, p.411.

corresponding to the figures 0-9 varies from observatory to observatory. The lower limit of each number for Eskdalemuir is:

K	0	1	2	3	4	5	6	7	8	9
Range in γ	0	8	15	30	60	105	180	300	500	750

Beginning with 1947 some changes have been made in the tables accompanying these notes. The month by month commentary on the autographic records has been omitted, and a change has been made in the table formerly headed "Principal Magnetic Disturbances". It is intended that all the disturbances, which would have been included in the previous type of table, will still be included, with, however, additional disturbances of the form of sudden commencements and those which can be recognised as being solar flare effects. The table is thus divided into three parts:

- (a) Disturbances noteworthy for some reason (usually, but not always, range) and without a sudden commencement.
- (b) Well marked sudden commencements whether followed by a large disturbance or not.
- (c) Disturbances accompanying a solar flare or other known solar flare effect.

The time given of commencement and ending of disturbances in (a) must depend on an arbitrary judgement. The list of sudden commencements under (b) will usually be a little shorter than that given in the I.A.T.M.E. Bulletins because a somewhat stricter meaning has been given to the words "well marked", and also because the sharp beginnings of small polar disturbances have been omitted. The (c) table has been made as complete as possible by a careful scrutiny of the magnetograms at the time of any known solar flare or solar flare effect, but a small "crochet" can easily be masked by other disturbance. The signs given to the movements of H , D and Z are positive increasing H or Z and an increase of force towards the east (that is, a decreasing westerly declination).

Particulars of the same disturbances are given in both the Lerwick and the Eskdalemuir sections of the *Observatories' Year Book*, even if the disturbance at one of the stations is relatively small.

In Table 67 the values of mean absolute daily range for the months and seasons are brought together. For convenience of comparison the ranges of declination in angle have been converted to units of force of the component perpendicular to the magnetic meridian. Table 68 gives the frequency distribution of absolute daily ranges and compares the percentage distribution for 1955 with that for the 22-year period 1932-1953. Table 69 gives the average values of the diurnal inequality ranges for the year and seasons for the period 1932-1953 (not the values of the range of the representative mean diurnal inequalities for this period) along with the 1955 values expressed as a percentage of the average values. The units employed are 1γ for force and $1'$ for declination.

TABLE 67 - ABSOLUTE DAILY RANGE AND MEAN MONTHLY VALUES

	Mean absolute daily range						Mean daily range expressed as percentage of yearly mean					
	1955			Mean 1932-53			1955			Mean 1932-53		
	H	D	Z	H	D	Z	H	D	Z	H	D	Z
	γ	γ	γ	γ	γ	γ	%	%	%	%	%	%
January	74	69	39	78	83	47	94	91	85	76	90	75
February	64	69	38	84	89	53	81	91	83	82	97	84
March	85	96	59	126	113	85	108	125	128	124	123	135
April	100	88	73	125	103	77	127	116	159	123	112	122
May	94	76	54	116	91	71	119	99	117	114	99	113
June	85	70	37	105	84	55	108	92	80	103	91	87
July	79	69	34	110	85	56	100	90	74	108	92	89
August	72	70	34	113	93	68	91	92	74	111	101	108
September	81	80	47	117	106	81	103	104	102	115	116	129
October	74	78	41	107	102	76	94	103	89	105	111	121
November	86	84	64	73	79	47	109	111	139	72	86	75
December	55	66	30	66	74	42	70	87	65	65	80	67
Winter	70	72	43	75	81	47	89	95	93	74	88	75
Equinox	85	85	55	119	106	80	108	112	120	117	115	127
Summer	83	71	40	111	88	63	105	94	87	109	96	100
Year	79	76	46	102	92	63	..	..	..	..	..	..

"Winter" comprises the four months January, February, November, December; "Equinox" the months March, April, September, October; and "Summer" May to August

TABLE 68 - FREQUENCY DISTRIBUTION OF ABSOLUTE DAILY RANGE

Range	Number of cases, 1955			Percentage distribution					
	H	D	Z	H		D		Z	
				1955	1932-53	1955	1932-53	1955	1932-53
γ				%	%	%	%	%	%
0 - 9	0	0	7	0.0	0.0	0.0	0.0	1.9	2.3
10 - 19	5	3	68	1.4	0.8	0.8	0.4	18.6	14.1
20 - 29	15	12	96	4.1	3.9	3.3	2.5	26.3	19.8
30 - 39	21	27	64	5.8	6.0	7.4	5.0	17.5	16.0
40 - 49	54	36	44	14.8	7.8	9.9	7.4	12.1	10.2
50 - 59	55	67	22	15.1	10.4	18.4	12.1	6.0	7.5
60 - 69	48	62	16	13.2	11.7	17.0	12.9	4.4	5.6
70 - 79	40	42	9	11.0	10.6	11.5	12.3	2.5	3.6
80 - 89	29	30	10	7.9	9.0	8.2	10.7	2.7	3.0
90 - 99	28	13	4	7.7	7.3	3.6	8.3	1.1	2.4
100 - 109	17	11	3	4.7	5.8	3.0	5.9	0.8	2.1
110 - 119	12	15	1	3.3	5.1	4.1	4.0	0.3	1.7
120 - 129	3	11	2	0.8	3.3	3.0	3.5	0.6	1.7
130 - 139	8	8	5	2.2	2.9	2.2	2.6	1.5	1.2
140 - 149	2	4	2	0.6	2.3	1.1	2.2	0.6	0.8
150 - 159	9	3	0	2.5	1.9	0.8	1.7	0.0	0.9
160 - 169	4	4	0	1.1	1.5	1.1	1.6	0.0	0.7
170 - 179	2	2	2	0.6	1.5	0.6	1.2	0.6	0.4
180 - 189	2	2	1	0.6	0.9	0.6	1.0	0.3	0.6
190 - 199	1	4	0	0.3	0.9	1.1	0.8	0.0	0.5
200 +	10	9	9	2.7	6.3	2.5	4.0	2.5	4.8
Days omitted	0	0	0	..	..	..	..	..	..

TABLE 69 - AVERAGE RANGE OF DIURNAL INEQUALITY 1932-53
WITH 1955 AS PERCENTAGE OF THIS

		All days			International quiet days			International disturbed days		
		Z	H	D	Z	H	D	Z	H	D
Year		γ	γ	γ	γ	γ	γ	γ	γ	γ
	1932-53	28.7	37.8	8.66	13.7	34.4	8.43	82.1	53.9	11.93
	1955(%)	71	69	83	96	77	82	67	61	90
Winter	1932-53	21.2	19.3	6.95	5.9	16.2	4.44	66.5	34.4	11.45
	1955(%)	89	82	86	102	90	85	88	73	96
Equinox	1932-53	37.1	43.1	10.18	14.8	39.7	9.69	108.9	75.4	15.11
	1955(%)	63	65	81	93	69	74	62	47	84
Summer	1932-53	33.9	59.7	11.84	21.9	50.4	11.76	82.4	83.7	13.11
	1955(%)	69	77	85	97	83	88	50	74	90

"Winter" comprises the four months January, February, November, December: "Equinox" the months March, April, September, October: and "Summer" May to August.

TABLE 70 - NOTEWORTHY MAGNETIC DISTURBANCES AT ESKDALEMUIR

(a) Disturbances without S.C's

Serial Number	From		To		Range (γ)			Notes
	Date	Hour	Date	Hour	H	D	Z	
1a	Jan. 17	12	Jan. 18	09	444	220	314	
2a	Feb. 28	00	Feb. 28	09	117	128	98	
3a	Mar. 22	09	Mar. 22	22	327	181	334	
4a	Oct. 25	00	Oct. 26	24	181	223	190	
5a	Nov. 18	16	Nov. 18	24	157	167	200	
6a	Dec. 1	13	Dec. 2	08	146	156	139	

(b) Disturbances with a S.C.

Serial Number	Date	Time of S.C.	End of Disturbance		With initial reversed stroke			Magnitude main stroke of S.C.			Range of following disturbance (γ)		
			Date	Hour	H	D	Z	H	D	Z	H	D	Z
1b	Jan. 11	12.19			Yes	Yes	No	γ +16	γ -8	γ -2			
2b	Mar. 30	10.39	Mar. 31	24	No	No	No	Small and indistinct			250	216	174
3b	Apr. 24	12.13	Apr. 25	02	Yes	No	No	+4	-9	+2	121	145	112
4b	Apr. 27	16.24	Apr. 28	05	Yes	Yes	No	+85	-26	-17	533	214	457
5b	May 25	14.33	May 26	11	Yes	Yes	No	+45	-19	-6	379	219	278
6b	June 6	17.28			No	No	No	+44	-13	-4			
7b	June 22	10.39			Yes	Yes	No	+8	+9	-4			
8b	Oct. 5	11.18	Oct. 6	10	No	No	No	+24	-26	-3	227	193	93
9b	Oct. 7	22.57			No	No	No	+48	-16	-6			
10b	Nov. 19	13.19	Nov. 21	04	Yes	Yes	No	+73	-66	+2	573	420	568

(c) Disturbances due to Solar Flare

Serial Number	Date	Commence- ment	Max.	End	Movement (γ)			K	K'	Flare or S.F.E.
					H	D	Z			
1c	July 2	10.18	10.22	10.26	+8	-4	0	2	2	
2c	July 3	16.06	16.20	16.24	+28	-7	-3	3	2	

(c) Disturbances due to Solar Flare (contd.)

Serial Number	Date	Commence-ment	Max.	End	Movement (γ)			K	K'	Flare or S.F.E.
					H	D	Z			
3c	Aug. 30	16.17	16.20	16.23	+12	-4	0	3	3	
4c	Nov. 12	11.28	11.33	11.53	-36	-35	+4	4	3	S.W.F. S.F. S.E.A.
5c	Dec. 3	11.04	11.14	11.20	-16	-4	0	3	1	S.W.F. S.F.

all these are doubtful S.F.E.
 S.E.A. - Sudden enhancement of atmospherics
 S.W.F. - Short wave radio fade out
 S.F. - Solar Flare

Irregular changes in declination

In connection with the supply of declination data to mine surveyors, it has been the practice to classify the hourly periods between the exact hours G.M.T. into four groups according to the range in declination within each period. The range limits which were adopted in consultation with representative mine surveyors are; less than 5', between 5' and 15', between 15' and 30' and greater than 30'. The range is less than 5' in about 85 per cent of the hourly periods. The actual frequencies of occurrence in the last three of the four divisions mentioned are set out below.

Number of cases per month

Range interval	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Year
5' - 15'	72	79	94	73	57	52	30	34	81	85	76	49	782
15' - 30'	12	6	21	9	7	1	2	0	9	13	10	10	100
>30'	2	0	1	2	0	0	0	0	0	1	3	0	9

Hourly distribution

Range interval	Hour ending at (G.M.T.)																							
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
5' - 15'	58	49	44	45	30	17	18	15	14	12	17	21	19	15	13	13	28	33	43	47	61	55	55	60
15' - 30'	4	3	4	2	1	1	0	2	0	0	0	0	0	1	1	2	5	13	9	10	14	17	5	6
>30'	1	1	0	0	0	0	0	0	0	0	0	0	0	0	1	2	0	1	0	1	0	0	2	0

PRESSURE AT STATION LEVEL

51

Maximum, minimum and daily mean values in millibars for each day 0h. to 24h., G.M.T.
The initial 9 or 10 of the values is omitted, i.e. 1005.61 is printed 05.61

71 ESKDALEMUIR: h_b (height of barometer cistern above M.S.L.) = 237.3 m.

	JANUARY			FEBRUARY			MARCH			APRIL			MAY			JUNE		
	Max.	Min.	Mean	Max.	Min.	Mean	Max.	Min.	Mean	Max.	Min.	Mean	Max.	Min.	Mean	Max.	Min.	Mean
	<i>millibars</i>																	
1	07.5	01.8	04.8	63.1	55.3	60.7	97.8	87.0	90.5	94.6	92.6	93.9	81.4	63.4	72.5	93.7	88.9	91.0
2	08.9	06.5	07.6	62.7	53.4	59.4	04.4	97.8	02.5	92.6	80.1	85.3	75.2	62.0	68.4	90.1	86.8	88.4
3	06.6	99.8	03.1	61.9	58.0	59.6	02.3	97.4	99.8	81.5	79.2	80.4	75.3	56.7	67.1	91.1	87.2	89.5
4	99.8	94.1	96.2	62.2	56.8	59.5	04.0	00.3	02.5	84.0	80.0	81.6	58.7	56.0	57.2	87.2	77.3	80.9
5	97.0	91.8	95.1	74.9	57.1	66.3	01.9	91.5	96.7	85.3	82.8	83.9	74.2	57.7	65.1	87.0	81.5	84.5
6	93.0	89.5	91.3	85.8	74.9	81.8	94.1	91.3	92.9	86.1	82.1	83.8	80.9	73.9	76.0	86.9	81.8	84.4
7	90.4	86.9	88.5	83.3	65.9	70.9	92.7	82.4	87.3	87.5	85.0	86.5	90.9	80.9	88.0	81.8	76.9	78.7
8	86.9	80.8	84.5	78.2	65.3	69.2	87.7	79.3	82.1	88.1	85.9	87.0	87.2	78.0	81.4	83.6	75.4	78.3
9	80.8	63.4	74.6	82.0	78.2	80.0	98.5	87.7	93.1	90.2	84.8	88.6	78.0	72.6	74.0	88.8	83.4	85.9
10	63.4	55.2	58.6	89.9	82.0	87.2	03.0	98.5	01.6	89.4	83.0	86.5	88.3	72.6	81.2	90.8	88.5	90.0
11	71.3	61.9	67.1	89.5	79.0	83.9	03.4	02.0	02.8	98.0	88.8	93.9	88.5	85.7	87.2	90.6	79.2	86.4
12	71.1	59.1	64.2	90.2	77.0	82.5	03.3	00.4	01.8	00.7	96.9	98.5	85.7	72.6	80.6	82.5	73.4	76.8
13	74.4	65.5	70.4	94.1	89.3	92.3	01.8	98.9	00.6	05.0	00.7	02.6	72.6	69.7	68.9	88.2	82.5	86.6
14	79.3	65.3	72.7	89.3	77.0	82.0	01.9	98.7	00.2	05.1	03.4	04.3	72.7	69.5	70.8	86.8	80.6	82.1
15	78.9	62.2	70.3	86.8	81.2	84.9	98.7	92.8	95.9	03.9	01.1	02.7	74.0	72.2	72.9	94.7	84.0	90.0
16	70.5	61.2	65.7	81.6	67.2	73.6	92.8	87.5	89.8	07.8	03.1	05.1	78.4	72.7	76.1	95.5	94.2	94.7
17	70.6	64.9	67.4	67.2	53.1	58.9	93.8	90.9	92.6	09.7	07.8	08.8	77.1	73.9	75.4	96.2	94.7	95.3
18	75.6	65.1	71.9	69.2	60.5	64.0	93.5	84.0	88.4	09.5	05.4	07.5	85.4	75.6	79.6	96.1	90.3	93.0
19	82.1	74.1	77.3	71.9	68.7	70.2	85.4	83.0	84.1	05.4	98.1	01.5	91.4	85.2	87.5	90.3	82.7	85.2
20	82.1	78.1	80.3	78.8	71.7	74.9	83.0	62.4	73.5	98.1	92.3	95.1	94.0	90.9	92.2	89.1	82.4	84.9
21	78.1	66.3	71.1	86.9	78.8	82.2	69.1	59.9	63.9	94.7	92.5	93.7	98.1	94.0	96.1	93.4	89.1	92.1
22	94.0	68.0	79.7	88.5	86.1	87.4	80.0	69.1	75.6	92.7	87.1	90.4	98.9	94.1	97.3	92.9	90.2	91.0
23	98.1	94.0	96.0	88.2	86.0	86.9	79.6	64.0	70.9	91.7	84.3	86.5	95.4	92.2	93.4	90.2	77.2	85.4
24	94.4	87.1	89.9	86.1	80.2	82.4	77.9	65.8	71.1	95.2	91.7	94.3	96.0	91.3	93.9	90.8	77.1	85.6
25	88.9	77.4	83.9	87.4	83.3	83.9	77.8	73.3	74.3	94.7	80.1	88.1	91.3	85.7	87.9	93.1	90.8	92.3
26	79.8	72.4	76.5	88.2	85.0	86.6	82.0	72.9	75.9	82.0	78.5	80.1	86.8	83.3	85.1	93.1	92.5	92.8
27	78.9	70.4	74.4	94.7	88.2	91.9	97.5	82.0	91.0	80.9	72.6	75.3	88.6	84.8	86.4	92.9	88.3	91.6
28	71.4	68.6	70.0	94.5	90.0	91.8	98.6	97.1	97.8	83.3	72.3	78.1	96.6	88.0	91.3	88.3	77.0	81.8
29	71.8	64.6	67.2				04.9	97.2	01.0	83.4	78.7	81.3	02.7	96.6	99.8	82.4	75.8	78.0
30	65.3	62.5	64.0				05.2	98.5	02.0	83.0	79.4	81.8	02.7	98.6	00.8	87.1	82.4	85.1
31	63.3	60.6	62.0				98.5	93.3	95.2				98.9	93.5	95.9			
Mean	83.04	74.81	78.93	81.33	72.47	76.96	94.04	86.67	90.23	93.47	88.34	90.90	86.00	78.84	82.26	89.84	83.74	86.76

	JULY			AUGUST			SEPTEMBER			OCTOBER			NOVEMBER			DECEMBER		
	Max.	Min.	Mean	Max.	Min.	Mean	Max.	Min.	Mean	Max.	Min.	Mean	Max.	Min.	Mean	Max.	Min.	Mean
	millibars																	
1	86.7	76.2	79.7	93.1	91.5	92.4	85.6	74.2	80.6	98.2	91.5	96.1	85.0	81.3	82.9	85.0	76.5	79.9
2	81.2	78.8	80.4	93.1	90.9	92.1	78.6	69.0	72.1	91.5	80.6	84.1	81.3	65.3	72.4	85.2	78.4	82.8
3	79.6	68.2	72.8	95.0	91.3	93.1	84.3	78.6	82.5	83.1	80.1	81.4	72.8	61.5	69.2	91.2	78.2	83.7
4	90.3	76.6	83.3	95.2	93.9	94.4	83.8	77.9	82.3	82.9	80.0	81.7	70.2	60.3	65.2	01.1	91.2	98.5
5	95.8	90.3	93.0	93.9	89.2	91.8	83.4	73.7	77.6	80.7	58.0	70.7	76.4	70.2	73.6	99.9	85.8	92.7
6	00.6	95.8	98.0	91.4	87.9	89.4	90.7	83.4	87.3	85.6	58.2	72.5	81.0	75.8	79.1	86.5	83.0	84.9
7	03.5	00.5	02.0	91.1	89.4	90.4	91.7	88.2	90.2	88.1	85.0	86.5	79.8	69.6	74.7	91.5	80.2	83.8
8	03.8	01.6	02.8	91.1	88.6	90.0	88.2	76.2	82.2	83.5	91.2	86.7	73.4	70.0	71.9	97.0	89.0	94.1
9	02.0	98.5	00.4	97.1	88.9	92.1	84.3	75.9	78.4	94.1	91.3	93.1	70.0	62.7	65.8	89.0	61.8	75.7
10	98.7	93.2	95.5	00.9	97.1	99.7	87.6	80.7	85.4	93.5	89.1	90.6	69.9	62.7	67.0	76.2	56.4	63.7
11	93.2	90.0	91.1	00.7	95.9	98.4	88.1	76.2	82.9	89.3	87.4	88.3	73.1	65.1	67.1	85.5	76.1	82.2
12	91.4	89.9	90.8	96.6	92.3	93.8	87.6	78.7	83.8	92.2	87.8	89.7	94.7	73.1	86.2	85.5	81.9	84.3
13	91.0	89.1	90.2	92.3	88.4	90.3	78.7	73.0	74.9	92.0	89.6	90.7	98.9	94.6	96.8	81.9	65.3	72.7
14	94.8	90.3	92.0	89.6	85.9	87.4	74.9	72.7	73.8	91.9	84.9	88.4	04.4	98.7	00.9	65.3	42.1	52.1
15	96.1	94.5	95.2	88.3	86.9	87.7	82.0	74.7	77.6	97.1	84.7	90.8	08.1	04.4	06.6	48.3	46.8	47.5
16	96.3	92.3	94.3	88.6	84.1	87.3	84.7	80.7	81.8	96.0	75.8	83.3	08.7	07.7	08.1	61.6	48.2	54.1
17	93.6	91.3	92.0	85.9	79.2	81.8	87.9	83.6	85.1	77.6	73.7	75.6	08.3	05.6	06.7	79.1	61.6	69.8
18	94.2	92.3	93.5	86.2	84.3	85.3	93.9	87.9	91.5	77.5	62.7	73.2	07.8	05.3	02.1	85.5	79.1	83.4
19	95.9	93.4	94.4	93.8	84.5	87.5	93.5	91.1	92.0	62.7	49.4	54.0	09.9	07.8	08.9	85.5	77.5	82.6
20	96.0	94.1	95.2	98.9	93.8	96.4	91.4	86.1	89.2	71.2	49.7	61.1	08.9	06.0	07.2	77.5	68.5	71.2
21	95.1	93.6	94.5	99.6	96.7	98.4	86.1	83.6	84.5	88.0	71.2	80.9	08.5	05.2	07.2	83.2	71.0	77.9
22	96.3	94.9	95.5	97.6	95.5	96.6	83.6	76.5	78.6	94.5	87.9	91.8	05.2	99.2	03.1	83.0	60.5	73.2
23	98.0	96.1	96.9	98.2	96.3	97.2	88.1	78.1	83.0	94.5	92.2	93.5	99.2	94.0	98.0	61.8	55.2	60.0
24	98.1	95.2	96.9	98.0	94.5	96.4	88.1	81.8	85.3	96.7	93.4	95.2	01.2	91.8	96.3	81.0	61.5	70.5
25	96.3	93.9	94.9	95.1	89.9	92.4	86.8	84.5	86.0	96.5	84.2	92.1	01.2	97.1	99.7	86.1	72.5	81.5
26	94.8	91.4	92.9	90.2	87.4	89.0	94.7	86.8	90.8	90.0	82.9	86.8	97.1	94.1	94.8	72.5	67.2	70.3
27	92.0	89.6	90.9	94.9	89.1	91.4	97.1	93.9	95.9	89.3	83.4	85.3	93.9	91.3	92.9	76.4	70.9	73.5
28	92.9	90.8	91.8	95.2	91.9	93.9	97.2	95.6	96.2	92.4	84.1	88.4	91.3	86.3	88.2	71.9	60.8	64.1
29	94.0	92.6	93.2	91.9	88.1	89.5	95.9	90.2	94.1	91.9	82.6	86.6	92.1	86.9	90.0	68.6	64.4	66.7
30	93.9	92.4	93.2	88.3	85.0	86.3	97.3	87.5	93.7	88.5	85.5	87.0	91.4	78.5	85.2	79.5	63.9	74.2
31	94.0	93.0	93.4	86.1	83.0	84.1				88.3	85.0	86.7				87.0	78.9	83.7
Mean	94.52	90.98	92.61	93.48	89.72	91.49	87.86	81.37	84.65	88.36	80.10	84.29	92.12	85.74	89.06	80.94	69.50	75.32
							Annual			88.79 81.90 85.33								

PRESSURE AT STATION LEVEL

Monthly and annual means of hourly values in millibars at exact hours, G.M.T.

72 ESKDALEMUIR: $h_b = 237.3$ m.

Hour G.M.T.	0	1	2	3	4	5	6	7	8	9	10	11	Noon	13	14	15	16	17	18	19	20	21	22	23	24	Mean
	<i>millibars</i>																									
Jan.	79.87	79.70	79.61	79.49	79.13	78.73	78.60	78.63	78.85	79.06	79.19	79.25	78.93	78.73	78.51	78.53	78.59	78.56	78.77	78.90	78.89	78.93	78.78	78.71	78.55	78.93
Feb.	76.99	76.90	76.71	76.44	76.11	76.39	75.97	76.11	76.40	76.66	76.91	77.21	77.23	77.14	76.92	76.90	76.89	77.03	77.21	77.36	77.50	77.70	77.83	77.97	78.02	76.96
Mar.	90.71	90.68	90.54	90.25	90.00	89.96	89.97	90.08	90.17	90.14	90.12	90.22	90.14	90.07	89.84	89.74	89.69	89.82	90.09	90.38	90.59	90.72	90.74	90.86	90.83	90.23
Apr.	91.21	91.06	90.93	90.85	90.83	90.82	91.07	91.20	91.23	91.24	91.23	91.19	91.11	90.94	90.79	90.58	90.45	90.42	90.48	90.59	90.84	90.91	90.94	90.87	90.79	90.90
May	82.29	82.16	82.04	81.90	81.77	81.97	82.06	82.22	82.25	82.38	82.47	82.48	82.45	82.32	82.22	82.10	81.98	81.92	81.95	82.21	82.49	82.75	82.81	82.80	82.69	82.26
June	87.22	87.11	86.86	86.72	86.60	86.73	86.76	86.77	86.75	86.84	86.76	86.75	86.73	86.67	86.61	86.51	86.46	86.41	86.50	86.59	86.80	87.03	87.06	87.07	86.99	86.76
July	92.99	92.99	92.84	92.63	92.57	92.62	92.77	92.84	92.86	92.78	92.72	92.61	92.43	92.32	92.25	92.19	92.11	92.04	92.08	92.27	92.48	92.80	93.05	93.18	93.20	92.61
Aug.	92.00	91.89	91.79	91.63	91.48	91.41	91.47	91.49	91.60	91.69	91.69	91.65	91.49	91.43	91.25	91.11	91.00	90.87	90.93	91.16	91.54	91.76	91.77	91.85	91.76	91.49
Sept.	84.67	84.54	84.36	84.14	83.94	83.97	84.11	84.51	84.67	84.81	84.85	84.76	84.70	84.69	84.57	84.59	84.52	84.55	84.67	84.95	85.17	85.28	85.23	85.18	85.06	84.65
Oct.	84.55	84.55	84.48	84.35	84.33	84.27	84.20	84.39	84.60	84.62	84.54	84.55	84.35	84.15	83.94	83.79	83.77	83.95	84.16	84.37	84.36	84.38	84.38	84.23	84.15	84.29
Nov.	89.06	89.00	88.95	88.89	88.82	88.86	88.98	89.20	89.46	89.70	89.73	89.69	89.34	89.07	88.89	88.72	88.78	88.78	88.94	88.96	88.96	88.96	88.97	88.85	88.84	89.06
Dec.	75.29	75.15	75.08	74.95	74.81	74.85	74.90	75.14	75.35	75.57	75.72	75.74	75.39	75.26	75.13	75.11	75.33	75.42	75.43	75.55	75.63	75.62	75.65	75.55	75.38	75.32
Annual	85.61	85.52	85.39	85.23	85.08	85.09	85.11	85.26	85.39	85.50	85.54	85.55	85.40	85.27	85.12	85.13	85.00	85.02	85.14	85.31	85.47	85.61	85.64	85.63	85.56	85.33

The initial 9 or 10 of the value is omitted, i.e. 1001.42 is printed 01.42

PRESSURE REDUCED TO MEAN SEA LEVEL

Monthly and annual means of hourly values in millibars at exact hours, G.M.T.

73 ESKDALEMUIR: $h_b = 237.3$ m.

Hour G.M.T.	0	1	2	3	4	5	6	7	8	9	10	11	Noon	13	14	15	16	17	18	19	20	21	22	23	24	Mean
	<i>millibars</i>																									
Jan.	09.28	09.09	09.01	08.84	08.60	08.20	07.91	07.92	08.18	08.39	08.54	08.50	08.13	07.89	07.67	07.73	07.84	07.85	08.08	08.23	08.24	08.27	08.14	08.06	07.92	08.23
Feb.	06.50	06.43	06.28	05.97	05.63	05.91	05.48	05.65	05.93	06.14	06.28	06.48	06.46	06.33	06.09	06.10	06.14	06.41	06.65	06.83	07.00	07.22	07.35	07.51	07.57	06.39
Mar.	20.51	20.51	20.37	20.10	19.84	19.79	19.81	19.83	19.90	19.73	19.57	19.56	19.44	19.33	19.08	18.95	18.94	19.15	19.55	19.97	20.24	20.43	20.47	20.62	20.64	19.83
Apr.	20.45	20.32	20.19	20.13	20.15	20.16	20.39	20.52	20.23	20.07	19.98	19.93	19.67	19.44	19.23	19.04	18.98	19.00	19.18	19.44	19.84	19.99	20.06	20.03	19.98	19.83
May	11.25	11.14	11.05	10.95	10.84	11.04	11.03	11.01	10.87	10.89	10.93	10.87	10.80	10.62	10.52	10.38	10.29	10.26	10.39	10.77	11.20	11.58	11.71	11.75	11.65	10.93
June	15.94	15.97	15.64	15.51	15.40	15.50	15.42	15.25	15.08	15.07	14.95	14.86	14.90	14.71	14.66	14.53	14.52	14.52	14.73	14.88	15.21	15.55	15.65	15.72	15.71	15.16
July	21.50	21.56	21.44	21.27	21.25	21.28	21.30	21.14	20.95	20.72	20.53	20.31	20.04	19.87	19.76	19.67	19.60	19.61	19.74	20.03	20.45	20.96	21.34	21.57	21.69	20.66
Aug.	20.45	20.37	20.29	20.36	19.97	19.90	19.93	19.82	19.75	19.69	19.71	19.50	19.25	19.11	18.90	18.74	18.64	18.55	18.71	19.10	19.66	20.01	20.10	20.25	20.21	19.59
Sept.	13.09	12.99	12.81	12.60	12.41	12.45	12.61	12.97	13.01	13.05	13.00	12.84	12.74	12.67	12.51	12.55	12.54	12.61	12.84	13.23	13.57	13.66	13.63	13.60	13.50	12.92
Oct.	13.56	13.59	13.53	13.41	13.43	13.40	13.32	13.49	13.63	13.45	13.37	13.29	13.02	12.72	12.54	12.32	12.45	12.74	13.02	13.29	13.32	13.28	13.38	13.24	13.17	13.12
Nov.	18.15	18.09	18.03	17.98	17.94	18.11	18.14	18.20	18.69	18.86	18.74	18.60	18.17	17.86	17.69	17.56	17.69	17.76	17.96	18.01	18.02	18.04	18.07	18.95	18.94	18.09
Dec.	04.26	04.13	04.05	03.91	03.77	03.82	03.88	04.12	04.34	04.56	04.65	04.62	04.22	04.07	03.95	03.95	04.21	04.35	04.37	04.51	04.58	04.58	04.61	04.53	04.35	04.25
Annual	14.61	14.54	14.42	14.27	14.13	14.14	14.13	14.21	14.24	14.25	14.20	14.13	13.92	13.74	13.57	13.59	13.50	13.58	13.78	14.05	14.29	14.49	14.57	14.59	14.55	14.11

The initial 9 or 10 of the value is omitted, i.e. 1001.42 is printed 01.42

The monthly and annual values of pressure reduced to mean sea level are computed from the corresponding monthly and annual means of pressure at station level and of temperature. See General Introduction to the Meteorological Tables, 1938.

TEMPERATURE

Monthly and annual means of readings in degrees Absolute at exact hours, G.M.T.

74 ESKDALEMUIR: Louvered hut: $h_t = 0.9$ m.

	Hour G.M.T.																											
	0	1	2	3	4	5	6	7	8	9	10	11	Noon	13	14	15	16	17	18	19	20	21	22	23	24	Mean		
	degrees Absolute																											
Jan.	72.87	72.97	72.89	73.30	73.38	73.38	73.44	73.56	73.33	73.31	73.81	74.22	74.57	74.79	74.78	74.47	74.03	73.61	73.45	73.32	73.21	73.20	73.06	73.06	72.97	73.59		
Feb.	71.29	71.07	70.74	70.88	70.94	70.95	70.97	70.75	70.91	71.46	72.50	73.40	73.84	74.09	74.28	74.00	73.49	72.49	71.93	71.68	71.37	71.36	71.37	71.23	71.15	71.95		
Mar.	72.35	72.07	72.09	71.85	71.81	71.87	71.79	71.91	72.83	74.08	75.33	76.27	76.68	77.04	77.15	77.35	77.01	76.28	75.19	74.16	73.65	73.13	72.99	72.70	72.29	74.07		
Apr.	77.43	77.22	77.14	76.89	76.59	76.41	76.67	77.66	79.58	81.17	82.04	83.01	83.79	84.35	84.75	84.54	84.06	83.32	82.17	80.88	79.47	78.76	78.42	78.05	77.74	80.19		
May	77.59	77.33	77.04	76.68	76.39	76.46	77.45	79.06	80.68	81.85	82.37	82.95	83.37	83.83	83.81	83.91	83.68	83.33	82.42	81.27	80.02	78.90	78.26	77.86	77.63	80.27		
June	81.05	80.61	80.37	80.20	80.13	80.36	81.40	83.17	84.53	85.55	85.97	86.80	87.18	87.43	87.33	87.59	87.15	86.67	85.56	84.99	83.84	82.87	82.21	81.63	80.97	83.94		
July	84.52	83.90	83.54	83.21	82.78	83.04	84.16	86.36	88.37	89.91	91.10	92.21	93.06	93.70	94.03	94.34	94.05	93.24	92.42	91.25	89.50	87.78	86.58	85.62	84.71	88.70		
Aug.	84.78	84.39	84.22	84.28	84.13	84.14	84.41	85.68	87.46	88.91	89.71	90.47	91.16	92.00	92.30	92.49	92.24	91.80	90.75	89.30	87.71	86.58	85.79	85.14	84.67	87.91		
Sept.	83.01	82.82	82.63	82.49	82.31	82.31	82.20	82.66	83.81	84.75	85.67	86.43	86.79	87.39	87.69	87.45	86.86	86.43	85.42	84.39	83.88	83.59	83.40	83.25	83.06	84.49		
Oct.	78.36	78.05	78.05	77.68	77.43	77.24	77.29	77.52	78.27	79.31	80.18	81.07	81.72	82.05	82.18	81.95	81.35	80.42	79.80	79.24	78.83	78.65	78.43	78.32	78.17	79.30		
Nov.	78.15	78.16	78.23	78.14	77.83	77.57	77.48	77.19	77.04	77.71	79.08	80.05	80.65	80.96	80.85	80.40	79.76	79.13	78.79	78.58	78.42	78.28	78.07	78.06	78.05	78.69		
Dec.	75.53	75.51	75.53	75.55	75.61	75.53	75.40	75.48	75.37	75.48	76.05	76.52	76.90	77.01	76.90	76.66	76.27	75.97	75.89	75.74	75.79	75.78	75.67	75.57	75.61	75.91		
Annual	78.11	77.88	77.74	77.63	77.48	77.47	77.76	78.48	79.40	80.34	81.20	82.00	82.52	82.94	83.05	82.98	82.55	81.95	81.23	80.45	79.69	79.12	78.73	78.41	78.12	79.96		

TEMPERATURE

53

Maximum, minimum and daily mean values in degrees Absolute for each day 0h. to 24h., G.M.T.
The initial 2 or 3 of the values is omitted, i.e. 275·0° is printed 75·0°. Add 0·16° to obtain temperature
in degrees Kelvin where $T(^{\circ}\text{K.}) = t(^{\circ}\text{C.}) + 273·16$.

75 ESKDALEMUIR: Louvered hut: h_t (height of thermometer bulb above ground) = 0·9 m.

	JANUARY			FEBRUARY			MARCH			APRIL			MAY			JUNE		
	Max.	Min.	Mean	Max.	Min.	Mean	Max.	Min.	Mean	Max.	Min.	Mean	Max.	Min.	Mean	Max.	Min.	Mean
	<i>degrees Absolute</i>																	
1	75·4	72·7	74·6	79·0	76·3	77·4	73·9	71·9	73·1	84·2	68·9	75·6	84·0	79·0	80·6	92·5	77·3	85·3
2	75·2	73·6	74·5	79·1	72·2	76·5	76·9	70·2	73·5	82·0	68·0	75·3	86·7	77·9	81·0	93·2	77·4	86·0
3	75·6	72·9	74·2	77·5	72·8	74·9	75·9	69·2	72·6	84·8	76·1	79·3	84·0	74·5	79·9	90·8	78·3	84·4
4	74·1	72·0	73·4	79·0	73·0	75·2	77·8	72·0	74·9	83·2	78·6	80·2	82·1	79·8	80·4	89·4	78·5	84·2
5	73·8	72·9	73·3	76·6	71·7	74·7	76·2	72·5	74·7	84·0	79·2	81·1	84·0	79·3	81·0	91·1	78·0	85·3
6	75·0	73·4	74·0	77·0	70·1	72·9	75·1	72·3	73·9	84·1	77·1	80·3	85·3	79·0	81·4	93·9	81·2	87·4
7	74·8	72·2	73·7	77·0	71·5	73·8	75·1	71·4	73·3	81·8	76·6	79·2	86·3	76·5	81·1	91·7	78·2	79·7
8	74·9	73·0	73·7	79·7	74·7	78·1	75·8	71·6	74·4	85·0	79·4	81·5	83·3	80·0	81·3	87·0	77·7	81·7
9	75·7	72·6	73·3	76·4	71·2	73·1	77·1	71·3	74·4	83·6	78·0	80·3	85·4	80·0	81·5	86·3	75·6	81·2
10	80·5	69·0	74·7	75·5	69·7	73·3	80·4	69·4	74·9	86·0	79·1	82·5	80·3	73·2	76·7	85·3	74·5	79·6
11	71·5	62·7	68·7	75·5	69·4	71·4	81·5	68·8	74·9	85·7	79·9	82·4	83·6	72·4	78·9	85·5	72·0	80·2
12	72·3	62·6	69·8	74·3	70·6	72·3	79·4	69·0	73·9	86·7	79·0	82·7	82·7	77·9	79·5	83·7	79·2	81·3
13	68·5	60·8	64·9	75·2	69·2	72·2	81·0	67·1	73·2	85·0	74·8	80·5	82·3	74·4	78·1	88·8	78·1	83·7
14	70·1	60·0	66·2	73·9	68·5	72·1	82·3	68·5	74·6	85·2	72·6	78·8	82·9	73·6	77·5	89·7	81·0	85·2
15	71·9	64·3	69·8	75·7	68·8	72·7	80·8	71·2	77·8	87·3	71·0	79·3	81·8	71·5	76·2	91·6	81·8	86·0
16	72·1	64·3	67·9	75·2	68·4	72·2	80·3	71·0	77·2	88·3	73·1	80·2	81·8	69·5	76·5	86·6	77·5	83·0
17	72·0	64·3	69·4	72·9	67·4	70·6	78·0	69·8	73·4	86·2	71·8	78·4	81·5	74·3	77·4	91·1	77·1	84·6
18	73·4	69·1	71·5	73·3	68·1	70·6	78·0	68·5	73·0	89·0	69·9	79·6	82·1	74·0	77·2	92·1	75·1	84·4
19	75·2	68·7	72·3	72·4	60·7	67·2	77·3	66·0	72·3	91·7	71·2	81·9	82·9	71·9	77·4	89·0	75·7	82·6
20	73·7	67·0	71·1	70·6	61·0	67·1	76·0	63·0	70·0	91·3	73·0	82·6	82·0	71·9	76·6	84·9	80·5	82·5
21	77·2	72·8	75·0	72·5	64·4	68·7	74·9	65·4	71·3	84·3	76·1	79·3	83·1	72·6	77·9	91·6	77·9	85·6
22	77·5	74·0	75·7	70·9	62·5	67·8	77·9	71·6	74·0	87·0	76·9	80·9	84·4	73·8	79·8	90·6	82·3	85·3
23	76·3	68·3	72·9	72·4	68·5	70·6	74·4	72·4	73·8	87·1	74·0	80·5	88·3	81·4	84·0	87·8	82·2	84·8
24	79·8	75·6	77·7	73·4	70·0	71·5	75·5	73·6	74·4	85·5	70·8	78·3	89·7	76·9	83·5	88·8	81·1	84·8
25	79·6	77·1	78·6	73·2	68·5	70·8	80·5	74·2	76·7	83·8	70·6	78·0	91·1	73·7	83·3	86·6	77·3	83·1
26	79·3	75·0	77·3	72·9	64·0	68·7	77·4	73·6	75·4	86·3	77·8	80·9	87·6	75·9	81·7	89·2	82·9	85·6
27	78·3	73·0	75·7	72·7	60·1	66·6	79·9	70·6	74·9	82·6	79·2	81·0	87·9	75·4	82·0	90·3	81·9	85·8
28	80·2	78·0	79·2	73·8	67·9	71·7	79·1	68·4	73·6	86·9	78·3	82·1	87·9	75·9	81·8	86·2	84·1	85·0
29	81·2	79·3	80·2				79·2	69·0	73·5	86·1	77·9	81·7	91·6	76·0	83·8	88·6	83·1	85·6
30	80·2	78·0	79·3				81·8	63·8	73·3	84·9	79·6	81·2	93·8	73·9	84·6	88·2	79·2	84·9
31	80·2	76·9	78·6				83·0	67·2	75·2				95·3	73·8	85·5			
Mean	75·7	70·8	73·6	74·9	68·6	72·0	78·1	69·8	74·1	85·7	75·3	80·2	85·3	75·5	80·3	88·7	78·9	83·9

	JULY			AUGUST			SEPTEMBER			OCTOBER			NOVEMBER			DECEMBER		
	Max.	Min.	Mean	Max.	Min.	Mean	Max.	Min.	Mean	Max.	Min.	Mean	Max.	Min.	Mean	Max.	Min.	Mean
	<i>degrees Absolute</i>																	
1	88·0	76·5	82·3	97·2	82·3	90·4	90·0	81·0	85·4	86·8	81·0	83·6	79·3	75·0	77·7	78·6	74·1	76·6
2	88·4	81·0	83·7	91·1	79·9	87·6	90·0	82·9	87·5	84·9	77·0	81·6	80·7	73·3	76·6	81·5	77·7	79·4
3	86·9	80·8	82·5	92·2	79·0	87·4	88·3	78·7	84·4	86·0	74·0	79·1	85·1	80·7	82·4	81·5	77·6	79·1
4	90·1	81·3	85·8	94·1	81·0	87·3	89·4	84·6	86·3	84·4	71·0	77·6	85·0	74·4	81·3	80·8	75·4	77·8
5	93·0	81·2	87·4	94·5	76·8	87·1	91·0	81·9	86·2	81·5	74·8	79·2	85·0	75·1	80·6	83·1	78·3	82·0
6	95·7	77·3	88·2	92·0	82·9	87·7	94·0	82·4	87·7	82·9	78·0	80·7	85·3	79·7	82·8	83·7	82·4	83·1
7	97·1	84·0	91·3	90·2	79·9	85·0	95·8	80·3	88·3	82·1	73·5	79·1	85·4	80·8	82·8	83·8	72·6	80·1
8	99·2	85·5	92·6	93·0	77·1	84·7	92·4	80·0	86·4	86·5	80·7	84·2	83·2	80·3	82·0	74·0	69·3	71·5
9	96·5	82·8	89·3	87·1	79·8	84·0	90·1	83·2	85·5	87·6	85·6	86·6	84·1	79·6	81·8	75·3	71·6	72·9
10	97·6	81·0	89·8	91·0	81·0	85·7	85·8	78·8	83·8	86·1	81·9	84·6	82·7	79·8	81·1	77·4	72·0	75·3
11	97·4	81·9	90·7	94·1	83·7	87·2	89·2	80·6	85·5	88·1	80·0	83·8	83·0	77·9	80·7	74·4	68·8	71·5
12	99·9	86·0	92·2	94·3	84·3	87·2	88·0	78·1	82·9	87·4	76·0	82·9	83·3	74·0	78·9	74·5	67·5	70·7
13	99·7	84·5	92·5	94·7	81·5	87·1	87·0	79·0	82·0	86·6	79·2	84·8	79·7	76·6	77·9	76·0	70·6	73·6
14	94·4	82·0	88·6	94·7	79·1	87·2	86·1	77·0	81·5	89·4	83·7	86·7	81·5	70·9	76·8	81·2	74·9	78·5
15	93·4	77·4	86·5	92·8	80·8	87·5	85·4	76·7	82·3	83·8	69·9	78·1	79·6	75·6	77·7	80·3	78·5	79·4
16	97·0	79·0	89·9	92·5	86·0	89·0	87·0	79·0	82·7	80·0	67·2	74·1	79·7	69·1	73·2	79·8	76·1	78·4
17	95·1	84·6	89·5	93·0	79·5	87·6	86·0	79·6	82·9	80·6	71·2	75·2	77·0	71·9	74·7	76·2	70·9	73·8
18	89·9	86·6	88·0	90·4	78·3	86·8	86·5	78·9	83·3	79·8	65·8	73·9	80·2	70·7	75·5	74·1	63·7	69·3
19	95·4	84·5	89·7	92·4	81·0	88·4	88·9	78·0	84·3	83·2	75·9	79·4	79·9	70·7	75·2	73·1	62·7	67·3
20	94·9	82·1	88·8	93·9	79·3	87·0	91·1	78·0	83·6	83·2	77·7	79·9	84·5	75·4	80·2	73·3	66·5	71·3
21	97·2	85·1	91·2	90·3	85·1	87·2	89·1	78·9	84·4	81·5	74·2	78·2	83·8	77·0	80·7	72·5	65·5	70·0
22	97·0	81·3	90·1	96·0	87·4	91·0	87·9	80·0	84·2	82·1	74·5	77·5	81·9	76·6	79·4	76·7	64·5	71·9
23	97·0	81·9	89·7	99·3	88·0	93·4	89·9	81·3	84·9	83·0	73·5	78·4	82·2	76·4	79·3	79·9	75·1	76·9
24	94·8	84·0	88·9	90·3	85·9	92·7	87·0	83·0	85·0	85·4	76·1	81·4	82·0	70·8	77·7	80·1	76·0	78·5
25	96·3	81·0	88·3	98·7	83·9	91·1	88·6	81·4	84·0	84·1	78·0	81·8	77·7	66·2	72·0	82·0	74·8	78·5
26	98·0	77·8	88·8	98·0	81·8	89·5	86·1	79·5	82·1	83·9	72·4	77·7	81·2	75·0	78·5	83·1	77·8	79·9
27	99·2	80·3	90·4	96·2	82·9	88·7	85·1	80·5	82·6	79·2	71·3	74·4	80·5	78·0	79·4	83·9	77·7	80·3
28	94·9	83·1	88·7	88·0	84·8	86·4	87·0	79·3	83·5	80·0	68·5	74·8	81·3	76·9	79·3	83·4	75·4	80·3
29	92·8	81·6	87·4	92·0	85·7	88·1	88·8	85·0	86·9	78·9	65·7	72·8	80·4	76·4	78·4	77·8	70·8	75·1
30	96·1	78·5	87·8	90·4	87·0	88·2	86·4	81·7	84·3	78·1	68·6	73·3	77·4	74·0	76·3	75·5	70·9	73·7
31	95·7	85·2	90·1	91·8	81·6	86·8				77·6	67·3	72·8				78·3	74·3	76·2
Mean	95·1	81·9	88·7	93·4	82·2	87·9	88·6	80·3	84·5	83·4	74·7	79·3	81·8	75·3	78·7	78·6	72·7	75·9

MEAN RELATIVE HUMIDITY AND VAPOUR PRESSURE FOR EACH DAY

Mean percentages from readings at exact hours 0h. to 24h., G.M.T.; vapour pressure from daily mean temperature and relative humidity

76 ESKDALEMUIR: Louvered hut: $h_t = 0.9$ m.

	JANUARY		FEBRUARY		MARCH		APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER		OCTOBER		NOVEMBER		DECEMBER	
	Rel. hum.	Vap. press.	Rel. hum.	Vap. press.	Rel. hum.	Vap. press.	Rel. hum.	Vap. press.	Rel. hum.	Vap. press.	Rel. hum.	Vap. press.	Rel. hum.	Vap. press.	Rel. hum.	Vap. press.	Rel. hum.	Vap. press.	Rel. hum.	Vap. press.	Rel. hum.	Vap. press.	Rel. hum.	Vap. press.
	%	mb.	%	mb.	%	mb.	%	mb.	%	mb.	%	mb.	%	mb.	%	mb.	%	mb.	%	mb.	%	mb.	%	mb.
1	82.0	5.6	93.4	7.8	91.5	5.6	79.5	5.9	91.2	9.5	61.8	8.8	88.9	10.4	83.0	16.5	94.5	13.6	81.1	10.4	90.2	7.7	94.1	6.3
2	84.6	5.8	93.7	7.4	91.8	5.8	85.0	6.1	81.5	8.7	71.7	10.7	81.1	10.4	87.5	14.5	85.4	14.1	92.9	10.4	75.8	6.0	97.5	9.4
3	93.4	6.2	95.5	6.7	80.0	4.7	91.0	8.7	89.3	8.9	65.1	8.8	95.0	11.3	85.3	14.0	80.6	10.9	90.3	8.5	93.4	11.0	79.9	7.5
4	90.5	5.7	92.0	6.6	82.2	5.8	97.4	9.9	93.4	9.6	79.4	10.6	74.6	11.0	79.6	13.0	93.2	14.2	94.3	8.0	92.8	10.2	90.3	7.8
5	90.9	5.7	84.9	5.9	73.9	5.1	97.5	10.5	92.0	9.9	75.7	10.8	80.3	13.2	83.3	13.4	83.1	12.6	96.4	9.1	92.8	9.7	94.7	10.9
6	86.7	5.7	77.2	4.7	86.1	5.6	94.9	9.7	86.0	9.5	69.2	11.4	79.3	13.7	70.3	11.8	84.4	14.1	74.8	7.9	91.9	11.1	95.0	11.7
7	89.0	5.7	99.1	6.4	88.4	5.5	96.6	9.2	72.6	7.8	93.4	9.2	78.8	16.6	70.3	9.9	80.5	14.0	82.7	7.8	96.0	11.6	85.2	8.6
8	92.5	5.9	84.9	7.5	80.7	5.5	97.0	10.8	98.2	10.8	79.1	8.9	75.9	17.3	79.7	11.0	86.9	13.4	99.6	13.3	94.9	10.9	84.4	4.6
9	94.3	5.9	82.0	5.0	85.7	5.8	83.7	8.6	92.5	10.3	66.4	7.2	79.7	14.8	93.8	12.3	90.7	13.2	98.0	15.3	93.6	10.6	98.7	6.0
10	93.6	6.5	75.5	4.7	81.3	5.7	85.7	10.2	83.3	6.6	83.8	8.2	73.0	14.0	88.2	13.0	90.0	11.7	89.8	12.3	96.3	10.4	95.6	6.9
11	80.5	3.6	78.7	4.3	82.4	5.8	83.0	9.8	78.1	7.3	80.6	8.2	76.7	15.5	85.1	13.8	80.0	11.6	92.8	12.0	95.7	10.1	92.7	5.1
12	79.9	3.9	86.0	5.0	74.4	4.9	83.1	10.0	88.1	8.5	87.6	9.6	79.9	17.8	87.2	14.1	84.9	10.4	93.5	11.4	88.8	8.3	83.8	4.3
13	82.5	2.8	79.4	4.6	84.4	5.2	71.2	7.4	79.2	7.0	79.3	10.2	76.2	17.3	85.8	13.8	81.3	9.3	97.3	13.5	87.5	7.6	87.6	5.6
14	88.0	3.3	88.0	5.0	85.1	5.8	73.9	6.8	72.0	6.1	96.1	13.7	83.6	14.8	82.4	13.0	79.3	8.8	93.6	14.7	83.0	6.7	96.5	8.7
15	95.3	4.6	81.8	4.9	80.8	7.0	71.8	6.9	80.5	6.2	71.9	10.8	78.7	12.2	89.7	14.8	80.7	9.5	73.0	6.4	86.2	7.4	98.9	9.5
16	92.8	3.9	74.7	4.3	83.8	6.9	71.7	7.3	76.6	6.0	85.2	10.5	78.4	15.1	90.6	16.5	86.5	10.4	89.3	5.9	85.2	5.3	97.2	8.7
17	89.9	4.2	87.9	4.5	70.8	4.5	82.6	7.4	74.5	6.2	72.5	10.0	77.4	14.5	88.2	14.7	88.1	10.7	74.8	5.4	90.7	6.3	87.0	5.6
18	85.3	4.7	90.3	4.6	78.6	4.8	58.3	5.7	73.0	6.0	67.0	9.0	91.9	15.7	95.4	15.1	88.7	11.1	81.3	5.3	82.6	6.1	80.2	3.7
19	89.3	5.2	81.9	3.3	77.5	4.5	50.3	5.7	65.4	5.5	74.8	9.0	78.0	14.8	93.2	16.3	88.2	11.8	89.0	8.6	90.9	6.5	89.8	3.6
20	82.7	4.4	88.1	3.5	90.8	4.4	65.3	7.8	74.8	5.9	90.5	10.7	85.5	15.3	82.4	13.2	86.2	11.0	82.4	8.2	88.5	9.0	91.4	4.9
21	92.3	6.5	90.3	4.0	91.2	4.9	80.7	7.7	76.9	6.7	81.9	12.0	81.2	17.0	92.8	15.0	97.6	13.2	74.0	6.5	81.4	8.6	79.9	3.9
22	92.0	6.8	88.1	3.7	80.3	5.3	76.5	8.2	86.5	8.5	91.2	13.1	77.2	15.1	92.2	19.0	93.2	12.4	78.1	6.6	83.6	8.0	94.4	5.3
23	85.5	5.2	86.0	4.4	92.3	6.0	84.9	8.8	86.3	11.3	92.8	12.8	85.5	16.3	80.6	19.3	89.6	12.5	86.3	7.7	75.7	7.2	88.9	7.2
24	99.7	8.5	90.9	5.0	98.0	6.6	67.8	6.0	81.9	10.4	78.0	10.8	80.2	14.5	80.1	18.4	94.2	13.2	87.7	9.7	77.0	6.6	86.0	7.8
25	97.6	8.9	86.6	4.5	96.0	7.7	79.9	7.0	75.8	9.5	84.8	10.5	73.1	12.7	83.4	17.3	85.5	11.2	93.3	10.6	91.3	5.2	93.3	8.4
26	92.3	7.7	76.3	3.4	84.3	6.1	87.3	9.3	77.8	8.8	88.1	12.9	61.4	11.0	76.5	14.4	81.1	9.4	95.2	7.3	91.0	8.2	87.2	8.7
27	95.6	7.1	82.2	3.1	75.7	5.3	97.6	10.5	70.0	8.0	84.4	12.5	68.6	13.6	78.0	13.9	83.0	9.9	80.8	5.5	88.7	8.5	90.5	9.3
28	99.8	9.5	81.3	4.5	71.0	4.5	78.3	9.1	70.9	8.0	98.3	13.8	77.5	13.8	87.6	13.5	86.1	10.9	72.1	5.0	96.3	9.2	85.4	8.7
29	96.6	9.8			73.7	4.7	86.1	9.7	66.9	8.7	89.7	13.1	84.4	13.9	87.7	15.0	96.9	15.4	89.7	5.4	96.7	8.7	85.6	6.1
30	96.3	9.2			69.2	4.3	90.7	9.2	63.0	8.6	74.6	10.4	84.6	14.2	92.5	16.0	79.0	10.6	74.0	4.6	91.0	7.1	83.8	5.4
31	92.7	8.4			75.3	5.4			62.2	9.0			86.8	16.9	81.8	12.9			93.5	5.6			84.4	6.5
Mean*	90.5	6.0	85.6	5.0	82.5	5.5	81.6	8.3	79.4	8.2	80.5	10.6	79.8	14.3	84.8	14.5	86.7	11.8	86.5	8.7	89.0	8.1	89.7	7.0

* Mean of the column.

RELATIVE HUMIDITY

Monthly and annual means of values at exact hours, G.M.T.

77 ESKDALEMUIR: $h_t = 0.9$ m.

	Hour G.M.T.																									Mean*
	0	1	2	3	4	5	6	7	8	9	10	11	Noon	13	14	15	16	17	18	19	20	21	22	23	24	
	per cent																									
Jan.	91.2	90.6	91.3	91.6	91.5	91.5	92.6	92.1	91.7	91.5	90.9	90.0	88.3	87.7	87.8	88.3	89.3	90.2	91.7	91.1	90.6	89.8	89.8	90.0	91.0	90.5
Feb.	87.2	87.5	88.0	88.8	88.9	88.8	88.8	89.2	89.0	87.3	84.8	82.5	81.0	79.5	79.2	79.7	80.5	82.8	85.1	86.2	87.4	87.5	87.4	87.0	87.2	85.6
Mar.	87.7	87.7	87.9	87.9	88.0	87.5	87.7	87.5	86.2	83.0	80.3	77.5	74.5	73.5	72.9	72.7	73.3	75.5	79.8	83.5	85.1	86.1	86.6	87.1	87.5	82.5
Apr.	89.8	90.9	90.9	90.6	90.1	90.1	90.5	90.4	86.0	79.3	75.1	70.8	68.6	66.7	65.9	68.0	70.3	73.5	78.0	81.8	85.6	88.1	88.9	89.6	90.0	81.7
May	89.1	89.8	90.5	91.0	91.0	90.6	89.5	85.6	79.3	74.4	71.2	69.3	66.7	67.0	66.3	67.5	70.1	70.7	72.4	76.6	79.9	83.2	85.8	87.7	88.3	79.4
June	89.0	89.7	90.4	90.7	91.0	91.3	90.7	86.7	81.3	77.1	73.9	71.7	69.5	68.7	68.6	68.7	70.0	71.7	74.1	77.5	80.8	84.2	86.2	88.2	89.8	80.5
July	90.5	91.3	91.5	91.8	91.8	91.1	90.8	87.5	80.9	75.9	71.7	69.7	67.7	66.9	66.7	66.5	68.7	70.9	71.1	74.7	79.6	82.7	86.1	88.5	90.6	79.8
Aug.	92.3	93.3	93.9	94.3	94.7	94.5	94.6	93.4	89.9	83.2	79.8	76.8	75.3	73.5	72.0	70.9	72.4	73.9	77.5	81.7	86.0	88.8	89.9	91.2	92.3	84.8
Sept.	91.3	91.8	92.4	92.8	93.0	93.5	93.9	92.9	90.3	86.4	82.2	78.7	76.6	75.6	75.4	76.7	79.9	81.7	84.6	88.0	89.6	90.4	90.9	91.2	91.3	86.7
Oct.	89.7	90.0	89.4	89.9	90.1	90.5	91.0	90.7	90.1	88.5	86.1	83.3	79.5	77.9	76.3	78.4	80.7	83.9	86.7	87.8	88.1	88.9	89.3	89.2	89.9	86.5
Nov.	91.0	92.5	92.6	92.3	92.6	93.1	92.8	92.7	92.4	91.9	87.7	84.3	80.9	79.0	80.1	82.2	85.3	87.5	89.3	90.0	91.1	91.4	91.7	91.3	91.1	89.0
Dec.	90.4	90.2	90.3	90.1	89.0	89.1	89.4	88.8	89.3	90.0	89.5	88.6	87.2	86.7	86.7	87.8	89.0	91.1	91.5	92.1	92.0	91.3	91.1	90.8	90.3	89.7
Annual	90.0	90.5	90.8	91.0	91.0	91.0	91.0	89.8	87.2	84.0	81.1	78.6	76.3	75.2	74.8	75.6	77.4	79.4	81.8	84.2	86.3	87.7	88.7	89.3	89.9	84.7

VAPOUR PRESSURE

Monthly and annual means of values at exact hours, G.M.T., computed from corresponding mean values of temperature and relative humidity

78 ESKDALEMUIR: $h_t = 0.9$ m.

	Hour G.M.T.																									Mean*	
	0	1	2	3	4	5	6	7	8	9	10	11	Noon	13	14	15	16	17	18	19	20	21	22	23	24	Mean*	
	<i>millibars</i>																										
Jan.	5.5	5.5	5.5	5.7	5.7	5.7	5.8	5.9	5.7	5.7	5.9	6.0	6.0	6.1	6.1	6.0	5.9	5.8	5.8	5.7	5.6	5.6	5.5	5.5	5.5	5.5	5.8
Feb.	4.7	4.6	4.5	4.6	4.7	4.7	4.7	4.6	4.7	4.8	5.0	5.2	5.3	5.3	5.3	5.2	5.1	4.9	4.8	4.8	4.7	4.7	4.7	4.7	4.7	4.9	4.8
Mar.	5.1	5.0	5.0	4.9	4.9	4.9	4.9	4.9	5.2	5.5	5.8	6.0	5.9	6.0	6.0	6.1	6.0	5.8	5.7	5.6	5.4	5.3	5.3	5.2	5.1	5.4	5.4
Apr.	7.5	7.5	7.5	7.3	7.1	7.0	7.2	7.7	8.4	8.6	8.6	8.7	8.9	9.0	9.1	9.3	9.3	9.2	9.1	8.9	8.3	8.1	8.1	7.8	7.7	7.7	8.3
May	7.6	7.5	7.5	7.2	7.1	7.1	7.5	8.0	8.3	8.5	8.4	8.5	8.4	8.7	8.6	8.8	9.0	8.9	8.6	8.4	8.0	7.7	7.6	7.6	7.5	8.0	8.0
June	9.6	9.4	9.3	9.2	9.2	9.4	10.0	10.8	11.1	11.2	11.0	11.3	11.2	11.3	11.2	11.4	11.3	11.2	10.8	10.9	10.5	10.3	10.0	9.9	9.6	10.5	10.5
July	12.3	11.9	11.7	11.4	11.1	11.2	12.0	13.4	14.1	14.6	14.9	15.5	15.9	16.3	16.6	16.9	17.1	16.8	16.0	15.7	14.9	13.9	13.4	12.9	12.5	14.2	14.2
Aug.	12.8	12.6	12.5	12.6	12.5	12.5	12.8	13.7	14.8	15.0	15.2	15.3	15.7	16.2	16.1	16.1	16.2	16.0	15.8	15.2	14.4	13.8	13.3	12.9	12.7	14.3	14.3
Sept.	11.2	11.1	11.1	11.0	10.9	11.0	10.9	11.2	11.7	11.9	12.1	12.1	12.1	12.4	12.6	12.6	12.7	12.6	12.2	11.8	11.7	11.6	11.5	11.4	11.2	11.7	11.7
Oct.	8.0	7.9	7.8	7.7	7.6	7.5	7.6	7.7	8.0	8.5	8.7	9.0	9.0	9.0	8.9	9.0	8.9	8.7	8.6	8.4	8.2	8.1	8.0	8.0	7.9	8.3	8.3
Nov.	8.0	8.2	8.2	8.1	8.0	7.9	7.8	7.6	7.5	7.9	8.3	8.5	8.5	8.5	8.5	8.5	8.4	8.3	8.3	8.2	8.2	8.1	8.0	8.0	8.0	8.1	8.1
Dec.	6.6	6.6	6.6	6.6	6.6	6.6	6.5	6.5	6.5	6.5	6.6	6.8	7.0	7.0	7.1	7.0	7.0	6.9	6.9	6.9	6.9	6.8	6.8	6.7	6.7	6.8	6.8
Annual	7.9	7.8	7.8	7.7	7.7	7.7	7.8	8.1	8.4	8.6	8.8	9.0	9.1	9.2	9.2	9.3	9.2	9.1	8.9	8.7	8.5	8.3	8.1	8.0	7.9	8.0	8.0

RAINFALL

55

Amount in millimetres, duration in hours and maximum rate of fall for each day 0h. to 24h., G.M.T.

79 ESKDALEMUIR: h_r (height of receiving surface above M.S.L.) = height of station above M.S.L. + height of receiving surface above ground = 242.0 m. + 0.4 m.

	JANUARY			FEBRUARY			MARCH			APRIL			MAY			JUNE		
	Amount	Duration	Max. rate	Amount	Duration	Max. rate	Amount	Duration	Max. rate	Amount	Duration	Max. rate	Amount	Duration	Max. rate	Amount	Duration	Max. rate
	mm.	hr.	mm./hr.	mm.	hr.	mm./hr.	mm.	hr.	mm./hr.	mm.	hr.	mm./hr.	mm.	hr.	mm./hr.	mm.	hr.	mm./hr.
1	...	...	...	2.0	2.0	3	12.5	7.5	-	...	...	...	7.0	8.4	43	...	...	...
2	0.1	0.1	...	13.2	8.7	18	...	...	...	6.0	5.5	4	0.9	0.2	12	...	...	...
3	0.6	1.2	1	0.4	0.4	(4)	...	...	...	1.3	1.6	6	14.2	7.9	9	0.4	2.5	...
4	1.1	1.6	1	...	...	...	...	...	...	0.6	2.1	(2)	8.9	11.0	9	0.6	1.1	(4)
5	0.1	0.2	...	...	...	...	0.1	0.1	...	7.9	6.3	7	25.4	12.0	78	...	...	...
6	...	...	...	...	...	...	2.4	1.8	-	1.9	3.5	...	1.6	2.0	8	...	...	...
7	...	...	...	10.9	10.4	3	2.1	9.7	-	1.9	9.0	(4)	...	...	...	10.3	7.4	8
8	0.2	0.3	...	3.3	4.7	4	1.5	0.4	5	4.5	8.8	2	17.8	15.2	8	0.4	0.7	...
9	8.7	5.0	3	...	...	...	...	...	...	4.7	5.8	3	8.8	11.6	12	...	...	...
10	42.4	17.8	20	...	...	...	...	...	...	1.8	5.0	(4)	1.4	4.6	(4)	1.7	1.4	(5)
11	...	...	...	2.6	2.5	-	...	...	...	...	...	...	1.0	1.4	3	0.8	1.9	(5)
12	2.6	1.0	(3)	8.2	8.0	-	...	...	...	...	...	...	3.5	6.7	3	2.3	7.0	...
13	0.1	0.1	...	2.1	2.3	-	...	...	...	...	...	...	5.3	7.6	1	0.7	1.0	(1)
14	1.0	2.3	...	3.1	2.4	-	...	...	...	...	...	...	0.9	1.0	1	13.3	12.3	24
15	4.0	8.6	-	...	...	...	...	...	...	...	...	...	1.3	1.9	4	...	...	...
16	3.9	8.0	-	0.1	0.1	...	0.2	0.2	1	...	...	...	0.1	0.3	...	0.2	0.8	...
17	0.2	0.3	...	27.1	9.3	-	...	...	...	...	...	...	...	...	...	...	...	...
18	...	...	...	5.3	4.0	-	1.6	3.9	(4)	...	...	...	1.2	1.2	3	...	...	...
19	0.1	0.2	...	0.5	0.8	-	...	...	...	...	...	...	...	...	...	...	...	...
20	...	...	...	0.7	3.9	-	13.3	6.3	-	...	...	...	0.6	0.7	2	1.5	3.5	(1)
21	7.7	8.7	3	0.6	0.5	-	15.5	4.4	-	...	...	...	0.4	0.5	...	...	...	...
22	0.6	3.5	...	0.9	1.7	-	...	...	...	...	...	...	1.5	4.3	(4)	5.8	6.0	6
23	...	...	...	2.9	3.6	-	11.1	8.9	-	0.8	3.8	...	2.7	6.6	(7)	10.9	7.6	93
24	2.2	2.4	1	3.6	6.7	-	10.9	8.2	3	...	...	...	...	...	...	1.4	1.6	2
25	3.8	6.5	(3)	...	...	...	15.6	7.6	7	4.0	3.9	(2)	...	...	...	1.4	4.5	(2)
26	4.8	4.0	4	...	...	...	...	...	...	2.1	2.7	1	...	...	...	2.8	2.0	17
27	11.7	10.2	3	...	...	...	...	...	...	22.6	20.0	22	...	...	...	0.4	0.4	(1)
28	16.5	11.3	9	1.0	2.0	...	...	...	...	1.6	0.6	5	...	...	...	20.9	15.6	19
29	20.5	9.5	21	...	...	...	...	...	...	1.6	3.9	(4)	...	...	...	2.1	2.0	13
30	9.6	8.4	23	...	...	...	...	...	...	0.2	0.3	(3)	...	...	...	...	...	...
31	3.0	2.6	3	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Total	145.5	113.8	-	88.5	74.0	-	86.8	59.0	-	63.5	82.8	-	104.5	105.1	-	77.9	79.3	-

	JULY			AUGUST			SEPTEMBER			OCTOBER			NOVEMBER			DECEMBER		
	Amount	Duration	Max. rate	Amount	Duration	Max. rate	Amount	Duration	Max. rate	Amount	Duration	Max. rate	Amount	Duration	Max. rate	Amount	Duration	Max. rate
	mm.	hr.	mm./hr.	mm.	hr.	mm./hr.	mm.	hr.	mm./hr.	mm.	hr.	mm./hr.	mm.	hr.	mm./hr.	mm.	hr.	mm./hr.
1	18.5	4.2	17	...	...	...	6.7	11.3	2	...	...	...	0.1	0.8	...	0.3	1.3	...
2	0.8	1.3	3	1.0	1.9	(4)	12.1	5.4	53	4.5	4.2	33	2.7	4.7	5	5.0	7.4	5
3	43.3	19.2	22	...	...	...	0.3	0.4	2	...	...	...	3.8	1.9	17	2.1	0.7	25
4	9.4	7.5	36	0.4	1.0	1	2.4	2.0	5	1.4	0.8	5
5	8.0	6.0	33	8.0	6.4	61	0.1	0.2	...	1.1	7.6	...
6	0.9	2.0	(1)	1.9	2.9	2	17.0	19.9	11
7	0.3	0.4	...	11.4	8.4	20	4.7	6.5	5
8	4.4	3.3	20	7.1	13.5	6	9.8	6.0	27	...	...	...
9	11.8	14.4	3	13.6	4.3	61	1.2	0.8	8	0.8	2.0	(4)	19.6	20.8	3
10	1.2	3.4	(1)	...	...	...	4.8	5.7	7	5.4	10.3	(1)
11	8.8	4.5	5	...	...	...	7.8	5.2	20	0.2	1.6	...
12	2.5	0.5	35	...	...	...	9.1	3.0	51	2.8	6.8	(1)	...	...	...	...	...	...
13	5.2	3.5	12	1.8	7.9	...	...	...	...	10.6	9.0	7
14	0.9	0.9	12	5.3	7.2	16	...	...	...	15.6	8.2	13
15	7.2	10.5	13
16	1.4	0.9	12	4.9	2.5	30	...	...	...	2.2	5.3	2
17	7.6	2.6	68	1.4	1.0	6	...	...	...	...	...	...	0.4	0.9	...
18	1.6	4.6	8	0.2	0.2	(1)	2.9	1.6	17	...	...	...	...	...	...
19	5.0	9.3	11	...	...	...	23.8	12.6	37	...	...	...	...	...	...
20	1.1	1.4	3	...	...	...	0.3	0.9	...	...	...	...	0.6	5.8	...
21	7.5	10.4	2	17.3	7.2	22	...	...	...	...	...	...	...	...	...
22	1.8	2.9	(4)	0.8	1.1	(2)	...	...	...	0.2	0.4	...	4.7	4.7	-
23	1.8	1.8	11	...	...	...	...	...	...	13.0	6.6	13
24	9.6	6.3	7	0.3	1.2	...	0.2	0.4	...	5.0	3.0	13
25	0.7	1.1	5	2.5	6.7	(1)	0.1	0.3	...	20.0	7.9	22
26	3.2	3.2	6	7.4	8.9	20	0.7	1.7	1	8.0	3.8	26
27	0.4	0.6	(4)	0.5	0.8	2	15.5	13.1	12
28	0.2	0.2	...	0.3	0.5	...	29.4	11.1	52
29	1.2	4.2	(5)	1.6	1.2	12	0.6	1.9	...	7.7	3.4	13
30	1.3	1.2	6	1.3	1.6	(4)	...	...	...	...	...	...	1.2	0.7	1
31	2.3	6.8	7	...	...	...	0.4	1.2	...
Total	65.1	25.2	-	38.7	48.7	-	118.6	82.1	-	78.9	93.4	-	48.2	45.8	-	198.3	172.1	-

DURATION OF BRIGHT SUNSHINE AND PERCENTAGE OF POSSIBLE FOR EACH DAY

57

83 ESKDALEUIR: h_g (height of recorder above ground) = 1.5 m.

	JANUARY		FEBRUARY		MARCH		APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER		OCTOBER		NOVEMBER		DECEMBER	
	Duration	Per cent. of possible	Duration	Per cent. of possible	Duration	Per cent. of possible	Duration	Per cent. of possible	Duration	Per cent. of possible	Duration	Per cent. of possible	Duration	Per cent. of possible	Duration	Per cent. of possible	Duration	Per cent. of possible	Duration	Per cent. of possible	Duration	Per cent. of possible	Duration	Per cent. of possible
	hr.	%	hr.	%	hr.	%	hr.	%	hr.	%	hr.	%	hr.	%	hr.	%	hr.	%	hr.	%	hr.	%	hr.	%
1	...	...	...	...	...	...	10.9	84	0.8	5	14.8	87	1.2	7	9.2	58	...	...	1.2	10	...	...	...	...
2	...	...	...	...	7.2	67	...	...	7.3	48	9.8	58	5.0	29	0.8	5	6.3	45	1.5	13	...	...	...	...
3	0.4	6	...	...	...	...	5.8	44	0.9	6	4.4	26	...	...	4.1	26	4.2	31	5.4	47	1.2	13	3.4	46
4	...	...	4.8	55	7.5	69	0.2	2	...	...	5.9	35	5.5	32	11.9	76	0.6	4	0.5	4	5.4	60	2.9	39
5	...	...	0.1	1	3.5	32	...	...	3.5	23	9.8	37	8.9	52	7.9	50	4.2	31	0.2	2	3.8	42	...	...
6	0.3	4	6.7	75	4.2	38	0.7	5	3.4	22	8.2	48	5.9	34	9.4	60	8.4	62	2.2	20	3.1	35	...	...
7	...	...	...	...	0.1	1	...	...	9.4	60	...	...	0.9	5	9.0	58	10.7	80	0.6	5	...	...	3.5	48
8	...	...	3.1	34	3.1	28	0.2	1	...	...	7.8	45	12.8	75	12.9	83	6.3	47	...	...	...	...	...	...
9	...	...	3.6	39	1.1	10	3.6	27	2.9	18	13.1	76	10.9	64	0.4	3	3.1	24	...	...	0.9	10	...	...
10	...	...	7.2	78	9.5	84	1.9	14	2.1	13	2.5	15	13.1	77	4.0	26	1.8	14	0.3	3	0.1	1	...	...
11	5.9	79	1.6	17	8.3	73	3.2	23	6.8	43	3.5	20	11.3	66	8.3	54	8.7	67	2.8	26	2.0	23	5.0	70
12	6.0	80	5.5	59	9.6	84	1.3	9	0.2	1	1.0	6	10.1	60	5.0	33	5.4	41	3.6	33	7.2	84	3.7	52
13	3.4	45	7.1	75	5.7	49	11.1	80	6.5	41	6.3	36	13.8	82	7.6	50	7.8	60	...	...	...	...	...	...
14	...	...	1.1	12	3.1	27	12.1	87	6.9	43	...	...	4.3	25	7.8	52	7.2	56	1.7	16	4.7	56	...	...
15	...	...	0.4	6	0.4	3	10.8	77	7.7	48	11.7	67	12.5	74	4.5	30	2.0	16	6.6	63	...	...	...	...
16	2.0	26	5.5	57	1.4	12	12.5	89	5.1	32	...	...	13.8	82	2.8	19	1.4	11	2.5	24	5.6	68	...	...
17	4.0	52	0.4	4	8.9	75	6.3	44	6.0	37	11.9	69	7.3	44	3.9	26	1.0	8	6.4	62	...	...	0.1	1
18	5.9	76	4.6	47	4.1	34	12.1	85	7.7	47	14.3	83	...	...	0.4	3	0.4	3	3.1	30	3.3	40	6.0	86
19	1.9	24	7.5	76	9.4	79	12.2	85	12.0	74	6.4	37	10.5	63	3.0	20	3.0	24	3.7	36	2.5	31	1.7	24
20	...	...	7.4	75	2.7	22	11.3	79	7.3	45	...	...	6.2	37	5.1	35	7.8	63	3.9	38	1.0	12	...	...
21	...	...	4.0	40	2.8	23	2.4	17	8.5	52	11.5	66	9.0	54	...	...	2.2	18	7.2	71	2.7	34	4.5	64
22	...	...	4.4	44	6.8	56	2.7	19	3.1	19	2.3	13	11.4	69	5.6	39	0.1	1	4.2	42	1.8	23	...	...
23	5.2	65	0.9	9	...	...	2.0	14	3.2	19	0.6	3	4.8	29	7.3	50	5.5	45	3.4	34	4.3	55	...	...
24	...	...	...	...	...	...	7.9	54	3.4	21	5.8	33	11.6	71	11.6	81	...	...	1.5	15	5.3	68	1.9	27
25	...	...	3.4	33	1.4	11	1.0	7	12.4	75	0.6	3	13.0	80	11.1	78	3.9	32	...	...	0.3	4	...	...
26	3.8	46	8.7	84	0.5	4	6.6	45	11.9	71	3.5	20	14.0	86	11.7	82	4.7	39	4.1	42	0.8	10	...	...
27	...	...	7.6	72	8.5	68	...	...	11.5	69	2.5	14	11.6	71	11.9	84	...	...	2.6	27	...	...	...	...
28	...	...	...	...	1.7	13	7.6	51	13.1	78	...	...	13.1	81	...	...	1.2	10	7.3	76	...	...	0.3	4
29	...	...	...	...	9.2	72	2.6	18	14.2	85	0.7	4	1.5	9	2.8	20	...	...	...	...	...	...	2.8	40
30	...	...	...	...	9.9	77	2.8	19	13.7	81	4.2	24	9.3	58	...	...	7.3	63	6.5	69	...	...	4.8	68
31	0.7	8	...	...	7.3	57	...	...	13.0	77	...	...	4.1	26	5.5	40	...	...	...	...	...	...	3.4	48
Mean	1.27	17	3.41	36	4.45	38	5.06	36	6.60	41	5.44	32	8.30	50	5.98	40	3.84	30	2.68	26	1.87	23	1.42	20
												Annual mean	4.20	32										

DURATION OF BRIGHT SUNSHINE

Monthly and annual totals between exact hours, local apparent time

84 ESKDALEUIR: h_g = 1.5 m.

	Hour L.A.T.																				Total	Per cent of possible
	3-4	4-5	5-6	6-7	7-8	8-9	9-10	10-11	11-12	12-13	13-14	14-15	15-16	16-17	17-18	18-19	19-20	20-21				
	hours																					
Jan.	-	-	-	-	...	1.2	4.9	5.8	7.4	7.1	7.2	5.3	0.6	...	-	-	-	-	39.5	17		
Feb.	-	-	-	...	1.8	7.6	12.2	15.1	13.2	15.1	13.8	10.6	6.1	0.1	...	-	-	-	95.6	36		
Mar.	-	-	...	0.9	9.8	13.7	16.8	16.8	15.2	16.4	15.0	15.4	11.5	5.6	0.8	...	-	-	137.9	38		
Apr.	-	...	1.5	8.1	10.8	12.8	12.8	15.7	14.6	16.7	15.5	13.0	11.6	10.3	7.2	1.2	...	-	151.8	36		
May	...	0.6	9.8	14.3	15.5	17.4	17.4	16.0	14.8	14.7	15.2	15.2	16.2	15.9	13.3	7.8	0.4	...	204.5	41		
June	...	1.1	7.4	13.2	14.1	13.4	13.2	14.5	14.0	11.6	9.0	13.2	10.8	10.3	8.2	7.2	1.9	...	163.1	32		
July	...	0.9	9.3	17.8	19.4	19.3	21.5	20.5	23.2	21.5	19.2	17.8	17.4	15.5	17.9	13.9	2.3	...	257.4	50		
Aug.	-	...	3.1	9.2	12.2	12.2	12.6	15.9	15.9	18.0	17.4	16.8	17.2	17.8	12.6	4.6	...	-	185.5	40		
Sept.	-	-	0.2	3.3	7.0	8.6	10.7	11.1	11.9	15.1	14.2	12.0	9.1	7.9	4.1	...	-	-	115.2	30		
Oct.	-	-	-	...	2.9	8.4	7.9	8.4	9.5	12.2	12.2	11.8	7.3	2.4	...	-	-	-	83.0	26		
Nov.	-	-	-	-	...	0.9	7.8	10.9	10.4	9.1	8.2	6.1	2.6	...	-	-	-	-	56.0	23		
Dec.	-	-	-	-	-	0.2	4.7	8.5	9.5	9.2	7.7	4.2	...	-	-	-	-	-	44.0	20		
Annual	...	2.6	31.3	66.8	93.5	115.7	142.5	159.2	159.6	166.7	154.6	141.4	110.4	85.8	64.1	34.7	4.6	...	1533.5	32		

WIND

Mean speed and highest instantaneous speed recorded each day (0h. to 24h., G.M.T.) by the pressure-tube anemograph

85 ESKDALEMUIR: h_a (height of anemograph above M.S.L.) = height of ground above M.S.L. + height of anemograph above ground
= 235 m. + 15 m.

	JANUARY		FEBRUARY		MARCH		APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER		OCTOBER		NOVEMBER		DECEMBER	
	Mean	Max. gust	Mean	Max. gust	Mean	Max. gust	Mean	Max. gust	Mean	Max. gust	Mean	Max. gust	Mean	Max. gust	Mean	Max. gust	Mean	Max. gust	Mean	Max. gust	Mean	Max. gust	Mean	Max. gust
	<i>metres per second</i>																							
1	2.1	9	2.8	12	5.5	19	1.0	9	3.3	13	3.9	13	2.4	14	1.4	10	3.4	17	3.0	10	2.5	12	0.5	4
2	2.1	12	5.3	21	0.7	4	3.3	15	4.2	15	5.0	17	4.0	15	0.8	6	7.1	22	4.5	15	4.6	17	5.8	19
3	3.9	15	2.6	10	1.6	14	4.8	15	5.9	21	4.2	18	4.1	15	1.1	6	2.7	12	2.1	11	3.5	12	5.8	17
4	7.0	21	1.7	10	3.5	13	4.0	13	10.2	21	7.3	23	2.3	13	1.2	6	4.5	13	0.6	7	2.8	11	2.7	13
5	5.9	16	2.7	14	6.3	25	3.2	14	8.3	21	1.3	8	1.2	9	2.3	12	3.6	19	3.2	16	1.2	9	8.2	20
6	4.6	17	1.9	13	5.5	22	3.4	13	2.8	11	4.1	15	0.8	8	3.0	13	1.9	10	6.2	22	1.9	9	9.2	20
7	1.4	12	1.7	13	3.5	14	3.6	15	3.5	13	6.0	21	0.6	5	2.1	11	0.7	7	0.9	13	3.8	13	4.3	15
8	0.0	0	6.7	23	6.3	24	4.3	14	8.5	20	6.8	20	1.2	9	1.1	8	2.1	10	2.6	14	3.1	9	0.3	5
9	0.7	10	0.9	7	2.7	10	5.0	14	6.0	18	3.7	14	2.1	9	0.9	6	3.3	14	3.8	13	2.0	9	1.9	7
10	5.1	21	3.8	17	0.5	8	3.7	14	3.5	15	1.4	13	1.9	8	2.8	10	3.6	15	2.6	14	2.3	11	3.4	13
11	*		4.3	17	1.0	5	3.6	17	4.3	17	2.5	13	1.8	9	2.5	9	4.1	19	0.8	8	3.4	17	1.5	7
12	*		5.2	17	1.1	5	3.7	15	6.7	16	3.4	14	0.9	15	2.5	9	3.6	15	0.8	7	0.6	5	1.3	8
13	*		2.9	11	0.7	9	3.1	15	3.1	16	2.7	13	1.2	7	2.0	9	2.6	12	5.3	16	0.1	2	2.5	12
14	*		3.4	15	0.4	5	1.8	9	2.0	15	6.9	17	1.1	9	1.1	9	2.5	15	7.3	21	0.9	7	5.7	19
15	*		2.5	13	3.2	18	1.2	8	2.7	15	3.5	15	1.4	9	3.6	14	3.3	13	3.9	18	0.1	2	1.5	11
16	*		5.2	17	4.0	19	2.1	7	1.7	9	1.5	6	1.5	10	6.1	17	1.8	12	2.4	15	0.1	4	1.0	11
17	*		6.8	25	4.1	18	0.9	5	4.5	16	2.0	9	1.7	8	3.8	16	5.4	18	3.6	17	0.1	4	2.4	10
18	*		3.2	12	3.7	16	2.4	13	4.9	20	1.9	9	1.4	8	2.6	13	2.5	11	2.5	13	0.3	5	1.2	7
19	*		1.3	10	3.7	15	1.1	8	3.6	14	3.9	11	0.4	4	4.2	16	4.1	16	4.3	17	0.1	3	0.6	6
20	*		2.5	11	3.9	14	1.9	12	1.5	7	1.7	7	0.6	6	0.9	8	1.7	10	2.5	7	1.2	8	3.1	12
21	*		3.5	11	2.3	15	2.5	10	2.2	12	2.5	11	0.6	5	1.5	8	1.8	10	4.8	18	0.9	6	2.1	9
22	*		3.6	12	2.9	13	2.9	13	3.7	13	5.1	17	1.0	9	2.1	9	2.7	16	3.3	13	1.4	9	2.4	13
23	*		4.9	17	6.1	25	2.8	11	2.4	12	6.0	25	0.9	7	1.3	7	2.9	12	1.1	5	2.5	13	8.4	26
24	*		7.4	16	2.5	13	1.3	9	1.2	7	6.0	24	2.9	10	0.5	4	5.6	17	2.7	16	3.7	12	4.1	15
25	*		6.0	17	1.3	8	3.9	16	2.5	12	3.1	11	2.3	7	0.6	5	4.9	15	5.0	16	0.4	9	6.2	23
26	5.0	18	2.1	9	5.4	19	4.0	14	3.5	10	3.1	13	1.9	8	0.3	5	3.6	15	2.8	15	2.1	9	8.7	23
27	2.1	12	0.9	5	2.7	11	6.3	17	6.2	17	3.8	14	0.5	4	2.2	12	2.5	14	1.9	13	3.1	11	7.4	18
28	4.5	13	4.5	12	0.9	6	3.5	14	4.8	14	7.0	17	2.7	10	1.6	10	2.1	10	4.2	19	2.4	10	11.0	27
29	5.5	17			2.5	12	2.4	14	1.8	8	3.1	15	0.6	5	2.4	11	5.1	15	1.2	8	1.2	12	4.5	23
30	8.2	22			0.5	5	6.5	18	1.2	7	1.4	8	1.4	9	3.2	11	4.6	20	1.5	7	0.8	8	1.2	12
31	5.3	15			1.4	11			1.6	9			0.9	8	1.4	11			0.6	5			2.0	11

*Defective Record

WIND

Monthly and annual means of mean wind speed between exact hours, G.M.T.

86 ESKDALEMUIR: h_a = 235 m. + 15 m.

	Hour G.M.T.																								
	0-1	1-2	2-3	3-4	4-5	5-6	6-7	7-8	8-9	9-10	10-11	11-12	12-13	13-14	14-15	15-16	16-17	17-18	18-19	19-20	20-21	21-22	22-23	23-24	Mean
	metres per second																								
Jan.	4.2	4.1	4.1	3.8	3.8	4.3	4.3	4.2	3.9	3.8	3.9	4.1	4.1	5.0	4.5	4.2	4.1	3.6	3.5	3.4	3.4	3.9	3.4	3.7	4.0
Feb.	2.9	3.0	3.2	3.5	3.5	3.7	4.0	3.8	4.1	3.9	4.1	4.3	4.2	4.1	4.3	3.8	3.7	3.2	3.3	2.9	3.0	3.5	3.1	2.9	3.6
Mar.	2.7	2.6	2.6	2.5	2.7	2.5	2.6	2.5	3.1	3.5	3.8	3.6	3.5	3.5	3.2	3.1	3.1	2.8	2.7	2.6	2.4	2.6	2.7	2.8	2.9
Apr.	2.3	2.6	2.5	2.2	1.9	1.7	1.9	2.1	3.2	3.8	4.0	4.5	4.5	4.5	4.6	4.4	4.1	3.8	3.4	2.9	2.4	2.7	2.7	2.6	3.1
May	3.1	2.8	2.8	3.1	3.3	3.2	3.9	4.3	4.7	4.6	4.5	4.6	4.7	4.8	4.8	4.8	4.7	4.9	4.6	4.1	3.2	2.9	3.0	3.1	3.9
June	2.6	2.7	2.6	2.6	2.5	2.8	3.1	3.8	4.2	4.3	4.7	4.8	5.2	5.1	5.3	5.3	5.2	5.1	4.8	4.3	3.1	2.8	2.6	2.5	3.8
July	0.8	0.7	0.6	0.7	0.8	0.8	1.2	1.2	1.6	1.9	2.0	2.2	2.3	2.1	2.2	2.6	2.7	2.8	2.1	1.8	1.3	1.3	1.0	0.9	1.6
Aug.	1.4	1.2	1.2	1.4	1.5	1.3	1.4	1.8	2.4	2.8	3.1	3.1	3.1	3.2	3.1	3.0	2.7	2.5	1.8	1.5	1.3	1.3	1.4	1.3	2.0
Sept.	2.9	2.7	2.8	2.5	2.5	2.5	2.3	2.5	3.0	3.7	4.4	4.7	4.8	4.9	5.0	4.6	4.2	3.7	3.1	2.8	2.7	2.4	2.6	2.9	3.3
Oct.	2.3	2.3	2.2	2.1	2.0	2.3	2.4	2.6	3.0	3.7	4.0	4.4	4.4	4.3	4.4	3.8	3.4	3.0	2.6	2.5	2.5	2.4	2.4	2.3	3.0
Nov.	1.5	1.6	1.6	1.5	1.1	1.0	0.9	0.9	1.0	1.5	2.4	2.7	3.1	2.9	2.5	2.3	2.0	2.0	1.9	2.0	1.8	1.7	1.6	1.6	1.8
Dec.	3.8	3.8	3.7	3.6	4.1	4.1	4.0	4.0	3.9	3.8	4.2	4.3	4.1	4.2	4.1	3.9	3.5	3.5	3.5	3.8	3.7	3.9	3.8	3.7	3.9
Annual	2.4	2.3	2.3	2.3	2.3	2.3	2.5	2.6	3.0	3.3	3.6	3.8	3.8	3.8	3.8	3.6	3.4	3.2	3.0	2.7	2.4	2.5	2.4	2.4	2.9

DISTRIBUTION OF WIND SPEED, EXTREME VELOCITIES AS RECORDED BY PRESSURE-TUBE ANEMOGRAPH

87 ESKDALEMUIR: h_a = 235 m. + 15 m.

	DISTRIBUTION OF WIND SPEED								EXTREME VELOCITIES				
	More than 17.1 m./sec.		10.8 to 17.1 m./sec.		5.5 to 10.7 m./sec.	1.6 to 5.4 m./sec.	Less than 1.6 m./sec.	No record	Highest hourly wind			Highest gust	
	Date of occurrence	Duration	No. of days	Duration	Duration	Duration	Duration	Duration	Veer from N.	Speed	Hour ended	Speed	Date
		hr.		hr.	hr.	hr.	hr.	hr.	°	m./sec.	day h.	m./sec.	day h. m.
Jan.	-	0	2	4	114	181	85	360	200	11	30 06	22	30 10 20
Feb.	-	0	2	3	132	370	167	0	10	15	17 09	25	17 08 25
Mar.	-	0	4	7	117	343	277	0	80	15	23 10	25	5 21 55
Apr.	-	0	1	1	112	421	186	0	200	11	30 14	18	30 13 35
May	-	0	3	14	187	396	147	0	220	13	3 18	21	4 17 05
June	-	0	5	14	168	382	156	0	230	14	23 24	25	23 22 50
July	-	0	-	0	15	306	423	0	010	7	3 18	15	12 17 20
Aug.	-	0	-	0	53	339	352	0	230	9	16 16	17	16 14 30
Sept.	-	0	2	3	125	419	173	0	220	12	30 03	22	2 01 25
Oct.	-	0	-	0	127	349	268	0	230	11	14 17	22	6 09 25
Nov.	-	0	-	0	40	276	404	0	130	9	2 18	17	2 18 00
Dec.	-	0	6	36	188	274	246	0	210	16	28 07	27	28 20 35
Year	-	0	25	82	1378	4056	2884	360	210	16	Dec. 28 07	27	Dec. 28 20 35

88 ESKDALEUIR

	JANUARY		FEBRUARY		MARCH		APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER		OCTOBER		NOVEMBER		DECEMBER	
	30 cm. 122 cm.		30 cm. 122 cm.		30 cm. 122 cm.		30 cm. 122 cm.		30 cm. 122 cm.		30 cm. 122 cm.		30 cm. 122 cm.		30 cm. 122 cm.		30 cm. 122 cm.		30 cm. 122 cm.		30 cm. 122 cm.		30 cm. 122 cm.	
	degrees Absolute																							
1	78.6	79.6	78.0	78.3	75.0	77.8	76.7	77.4	82.0	80.1	85.1	81.5	85.6	83.4	89.4	86.2	88.2	86.7	85.7	85.6	79.8	83.4	80.0	81.4
2	78.0	79.4	78.0	78.4	75.1	77.8	77.0	77.4	82.0	80.1	85.1	81.7	85.4	83.7	89.6	86.2	88.1	86.6	85.3	85.5	79.9	83.4	80.0	82.2
3	77.6	79.9	77.6	78.4	75.1	77.7	77.2	77.3	82.0	80.1	85.1	81.8	85.5	83.5	89.3	86.2	87.9	86.6	84.7	85.4	80.3	83.3	80.3	82.0
4	77.6	79.9	77.1	78.6	75.1	77.7	77.2	77.3	81.8	80.1	84.9	81.8	85.1	83.7	89.1	86.1	87.6	86.6	84.0	85.3	81.0	83.1	80.0	81.8
5	77.2	79.7	77.0	78.7	75.1	77.7	78.4	77.7	81.6	80.3	85.0	81.8	85.6	83.7	89.1	86.1	87.9	86.6	84.1	85.3	80.9	82.9	80.0	81.3
6	76.9	79.8	76.9	78.7	75.1	77.7	78.4	77.7	81.8	80.2	85.1	82.1	86.1	83.6	89.1	86.1	87.9	86.6	83.9	85.3	81.3	82.8	80.5	81.3
7	76.9	79.5	76.6	78.5	75.0	77.7	79.1	77.8	82.1	80.3	85.1	82.1	86.8	83.7	88.8	86.3	88.0	86.7	83.6	85.2	81.7	83.0	81.1	81.7
8	76.7	79.5	76.3	78.6	75.0	77.5	79.3	77.9	82.5	80.4	84.2	82.2	86.8	83.7	88.6	86.4	88.1	86.6	83.8	85.0	81.9	82.8	80.1	81.8
9	76.6	79.5	76.5	78.6	75.2	77.5	79.5	78.0	82.3	80.4	84.1	82.2	87.4	83.7	88.4	86.2	87.9	86.6	84.5	85.1	81.9	82.8	79.6	81.7
10	76.6	79.4	76.3	78.5	75.4	77.5	79.9	78.0	82.5	80.5	84.0	82.4	88.4	83.9	88.2	86.2	87.7	86.6	84.9	85.1	82.0	82.8	78.9	81.7
11	76.7	79.4	76.0	78.5	75.9	77.5	80.2	78.2	82.0	80.6	83.8	82.4	88.4	83.9	88.0	86.2	87.4	86.6	84.9	85.1	81.9	82.9	78.4	81.7
12	76.3	79.3	75.9	78.3	76.1	77.5	80.5	78.3	81.8	80.5	84.0	82.3	88.7	84.2	88.2	86.2	87.4	86.6	85.0	85.1	81.8	83.0	78.1	81.5
13	76.1	79.2	75.9	78.4	76.1	77.4	80.6	78.4	81.8	80.7	84.0	82.4	89.3	84.3	88.4	86.2	86.7	86.6	84.9	85.1	81.7	83.0	77.9	81.4
14	76.1	79.2	75.5	78.2	76.0	77.5	80.6	78.6	81.6	80.7	84.1	82.4	89.6	84.4	88.5	86.3	86.6	86.5	84.9	85.1	81.0	83.0	77.9	81.3
15	76.0	79.1	75.5	78.1	76.0	77.3	80.6	78.6	81.8	80.8	84.3	82.5	89.0	84.6	88.5	86.2	86.1	86.4	85.0	85.1	81.0	83.1	78.0	81.3
16	75.8	78.9	75.5	78.1	76.3	77.3	80.6	78.6	81.8	80.8	85.0	82.5	89.0	84.9	88.7	86.2	85.8	86.4	83.7	85.1	80.6	82.9	78.3	81.1
17	75.8	78.9	75.5	78.2	76.4	77.3	80.8	78.8	81.6	80.9	85.0	82.6	89.4	84.9	88.6	86.2	85.9	86.2	82.9	85.1	80.1	82.8	78.2	80.9
18	75.8	78.9	75.5	78.2	76.1	77.8	80.8	78.9	81.6	80.9	85.2	82.8	89.2	85.0	88.2	86.2	85.9	86.2	82.0	85.0	80.0	82.8	78.1	80.9
19	75.7	78.8	75.5	78.1	76.3	77.7	80.8	79.1	81.5	80.8	85.6	82.8	89.0	85.1	88.4	86.3	85.8	86.2	81.9	84.9	79.7	82.7	77.6	80.9
20	75.7	78.8	75.3	78.1	76.1	77.6	80.8	79.1	81.7	80.9	85.2	82.7	89.1	85.1	88.2	86.3	85.7	86.1	82.2	84.8	79.9	82.7	77.3	80.9
21	75.7	78.8	75.3	78.1	76.3	77.7	81.4	79.2	81.6	80.9	85.1	82.9	89.1	85.2	88.2	86.2	85.9	86.0	82.2	84.8	80.1	82.7	77.0	80.8
22	75.7	78.8	75.2	77.9	76.0	77.6	81.3	79.4	81.8	80.8	85.6	83.0	89.7	85.3	88.3	86.3	85.8	86.0	81.9	84.6	80.6	82.5	76.8	80.7
23	75.7	78.4	75.2	77.9	76.4	77.5	81.2	79.4	82.2	80.9	85.6	83.1	89.8	85.3	89.0	86.3	85.6	85.7	81.5	84.4	80.5	82.4	76.8	80.5
24	75.4	78.4	75.2	77.9	76.0	77.5	81.2	79.5	82.8	80.9	85.6	83.1	89.7	85.4	89.6	86.3	86.0	85.9	81.7	84.3	80.5	82.4	76.9	80.5
25	75.7	78.4	75.2	77.9	75.9	77.4	81.1	79.5	83.3	80.9	85.8	83.2	89.7	85.4	89.9	86.3	85.7	85.7	82.1	84.1	79.6	82.0	77.0	80.3
26	76.0	78.3	75.2	77.9	76.4	77.5	81.1	79.6	83.8	81.1	85.8	83.2	89.5	85.8	89.9	86.4	85.5	85.8	82.2	84.1	79.4	82.1	77.3	80.2
27	76.2	78.4	75.1	77.9	76.4	77.4	81.6	79.7	84.0	81.1	86.0	83.2	89.6	85.8	89.8	86.5	85.2	85.8	81.7	83.9	79.8	82.1	77.8	80.8
28	76.6	78.4	75.0	77.8	76.4	77.4	81.5	79.7	83.8	81.1	86.2	83.3	89.7	85.8	89.3	86.3	85.1	85.7	81.0	83.9	79.8	82.1	78.4	80.7
29	77.1	78.2			76.4	77.4	82.0	79.8	83.8	81.3	86.0	83.3	89.5	85.9	88.9	86.5	85.6	85.7	80.2	83.8	80.1	82.1	78.7	80.1
30	77.6	78.3			76.6	77.4	82.1	80.0	84.1	81.3	86.1	83.4	89.2	86.0	88.9	86.5	85.8	85.8	80.1	83.7	80.1	81.5	78.0	80.1
31	77.9	78.2			76.5	77.4			84.7	81.3			89.3	86.2	88.7	86.7			79.7	83.7			77.7	80.1
Mean	76.5	79.0	76.0	78.2	75.9	77.5	80.1	78.6	82.4	80.7	85.1	82.6	88.3	84.7	88.8	86.3	86.6	86.3	83.1	84.8	80.6	82.7	78.5	81.1
												Year	81.9	81.9										

MINIMUM TEMPERATURE "ON THE GRASS" DURING THE INTERVAL 18h. TO 9h., G.M.T.

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	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER	OCTOBER	NOVEMBER	DECEMBER	
	degrees Absolute												
1	70.0	75.8	70.2	66.1	78.2	74.3	74.4	79.7	78.9	80.3	70.5	71.7	
2	72.2	75.0	70.4	65.0	77.7	74.7	79.6	84.1	86.0	80.0	68.4	69.8	
3	73.4	70.1	67.5	74.4	72.2	79.3	80.8	76.0	74.9	71.3	76.9	76.1	
4	70.1	71.1	69.2	78.0	79.3	76.8	79.7	78.4	84.0	67.9	81.3	72.7	
5	70.0	72.6	70.0	79.0	77.8	74.5	80.8	74.1	84.2	73.8	69.8	74.3	
6	72.2	67.8	70.4	78.1	77.6	80.2	74.4	82.6	78.0	76.2	75.0	81.1	
7	72.0	69.0	70.4	75.0	73.8	79.8	83.3	79.0	77.9	69.1	76.8	81.1	
8	72.0	73.5	72.6	79.4	78.5	77.7	81.9	72.8	75.7	79.5	80.0	66.0	
9	72.3	68.2	69.8	76.0	80.3	76.7	81.5	79.6	80.0	85.8	77.1	70.9	
10	72.8	68.1	68.9	78.7	74.0	73.0	78.2	76.3	74.6	83.1	79.0	73.0	
11	65.2	66.0	66.4	78.5	69.4	68.8	77.8	80.3	83.6	75.2	74.0	65.9	
12	57.8	67.6	67.0	80.7	77.2	79.0	84.6	82.9	74.2	80.5	71.1	63.0	
13	59.9	69.5	64.9	75.2	76.2	75.0	82.3	82.6	77.2	73.0	72.6	65.8	
14	57.5	66.1	65.1	69.4	71.1	80.8	79.7	76.9	72.9	86.2	66.2	74.2	
15	58.0	69.6	68.6	67.8	70.0	81.0	73.6	77.7	73.2	78.6	73.1	75.6	
16	68.0	65.0	76.4	69.5	66.7	80.2	76.5	87.5	76.9	62.7	64.6	77.9	
17	59.4	65.0	68.0	69.7	72.8	74.9	80.8	82.8	74.8	67.2	65.6	72.6	
18	66.0	66.1	65.0	66.1	72.6	72.0	86.3	75.3	76.5	60.4	70.5	65.1	
19	65.8	63.1	65.9	67.8	68.1	73.8	81.4	88.5	81.0	74.0	66.6	59.6	
20	63.4	55.8	60.2	71.9	68.6	80.2	79.1	76.2	73.9	74.7	70.1	62.1	
21	72.4	63.0	62.9	75.8	69.9	76.1	83.4	83.8	74.3	74.1	72.0	65.7	
22	73.4	59.0	67.5	74.0	72.8	83.0	77.5	86.9	77.3	69.3	75.9	59.9	
23	65.4	64.7	72.1	78.7	80.9	80.9	80.0	87.0	80.7	68.9	73.0	73.3	
24	73.0	69.4	73.1	66.1	75.6	80.5	85.3	82.9	77.5	71.5	74.0	74.6	
25	78.0	69.9	74.0	67.3	71.9	74.0	78.6	81.2	80.0	74.2	62.2	72.6	
26	76.3	63.4	73.9	77.3	73.3	82.1	72.8	80.2	77.4	75.2	71.7	79.4	
27	72.0	61.9	70.8	78.7	75.0	80.0	77.1	78.9	78.2	66.9	75.1	76.6	
28	76.0	63.3	65.4	76.7	73.2	84.6	80.4	83.0	73.5	67.9	74.2	79.4	
29	79.0		65.2	76.0	72.4	84.0	81.9	85.0	84.0	60.8	78.1	73.1	
30	78.4		60.8	79.1	70.0	76.1	75.1	86.1	80.7	65.3	75.3	66.0	
31	77.6		64.3		70.1		82.1	82.1		63.0		71.3	
Mean	69.7	67.1	68.3	73.9	73.8	77.8	79.7	81.0	78.1	72.8	72.7	71.3	
						Year	73.9						

POTENTIAL GRADIENT (reduced to level surface)
Mean values for periods of sixty minutes between exact hours, G.M.T.

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	JANUARY, factor 8.14				FEBRUARY, factor 7.38				MARCH, factor 7.96			
	2-3h.	8-9h.	14-15h.	20-21h.	2-3h.	8-9h.	14-15h.	20-21h.	2-3h.	8-9h.	14-15h.	20-21h.
	<i>volts per metre</i>											
1	120	105	105	165	Z-	180	185	295	290	370	Z-	290
2	85	75	145	125	-80	Z-	165	115	745	600	155	230
3	80	65	-15	145	95	120	100	230	360	340	475	350
4	120	Z-	155	105	65	35	160	280	180	180	290	455
5	65	80	-	140	180	185	150	140	245	145	205	455
6	100	100	130	190	100	145	130	125	130	140	120	195
7	80	130	230	295	135	280	110	135	85	85	195	Z-
8	80	95	60	50	Z-	65	80	110	175	155	180	130
9	80	140	90	Z-	50	25	130	230	170	155	260	250
10	Z-	Z-	435	455	5	90	85	215	140	85	95	110
11	265	550	Z+	410	155	140	Z+	220	125	110	185	335
12	290	200	490	455	Z+	25	350	Z+	95	115	110	95
13	195	165	320	490	120	275	455	510	50	170	180	170
14	305	100	80	145	280	305	215	Z+	160	120	65	185
15	45	55	-	-	455	210	485	565	125	105	115	150
16	Z+	Z+	680	615	280	395	280	370	90	65	105	75
17	340	215	670	700	515	Z+	-	-	180	195	135	255
18	930	320	290	360	-	-	220	Z+	195	175	150	Z±
19	125	355	425	300	250	195	600	180	155	150	115	65
20	215	160	285	250	165	485	185	190	90	145	45	Z-
21	220	505	Z-	70	265	380	130	Z±	Z+	-	445	545
22	Z-	450	85	60	165	325	360	290	125	350	180	250
23	150	90	355	275	120	100	410	465	165	Z+	-160	220
24	90	100	-	-	Z±	195	510	Z+	Z-	Z-	75	75
25	-	-	90	90	Z+	Z+	410	340	Z-	140	-	-
26	65	Z-	175	300	95	120	245	505	-	-	95	105
27	125	120	Z-	85	185	200	290	255	65	50	120	105
28	140	45	275	345	330	255	310	230	10	30	80	50
29	90	-160	135	Z-	-	-	-	-	145	110	130	55
30	225	145	85	160	-	-	-	-	20	35	110	15
31	Z-	105	295	300	-	-	-	-	-	40	-	85
(a)	178	179	252	262	191	197	260	273	166	162	163	197
(b)	216	148	245	278	164	202	264	289	166	162	162	190
Mean	(a) 218		(b) 222		(a) 230		(b) 230		(a) 172		(b) 170	

	APRIL, factor 8.79				MAY, factor 8.39				JUNE, factor 8.15			
	2-3h.	8-9h.	14-15h.	20-21h.	2-3h.	8-9h.	14-15h.	20-21h.	2-3h.	8-9h.	14-15h.	20-21h.
	<i>volts per metre</i>											
1	105	120	155	105	80	155	Z-	40	90	205	155	105
2	65	65	-25	Z-	55	165	85	260	130	130	80	50
3	220	Z-	55	90	75	145	Z±	Z±	10	5	120	95
4	115	100	45	50	Z-	45	Z-	40	55	85	130	105
5	25	40	55	115	Z-	Z-	Z-	160	65	140	100	25
6	20	230	105	180	125	140	Z-	95	60	120	-	-
7	95	130	165	80	60	95	95	110	-	-	-40	55
8	40	95	95	Z-	Z-	125	160	Z-	75	115	-	105
9	80	75	65	15	Z+	Z-	Z-	100	30	120	110	70
10	60	80	65	90	70	90	85	70	25	55	120	50
11	105	90	50	125	85	95	160	155	100	85	85	95
12	40	40	35	150	-5	75	65	75	Z-	85	35	45
13	90	75	135	100	Z-	105	150	130	25	45	75	115
14	65	125	185	15	80	-	90	Z+	10	260	115	35
15	50	85	170	90	105	105	Z+	90	85	130	155	70
16	65	55	180	75	50	125	-20	Z±	40	10	50	35
17	75	50	95	30	75	80	135	80	20	130	105	25
18	30	165	240	155	100	-	Z±	140	65	145	145	180
19	150	95	35	15	175	165	Z±	145	105	180	140	55
20	10	265	140	70	100	95	Z±	65	90	25	25	35
21	10	5	40	155	50	130	40	35	100	125	80	60
22	125	50	120	125	30	100	-95	205	150	195	65	130
23	-25	Z-	80	25	130	170	80	15	150	135	110	105
24	40	150	95	65	35	50	75	15	120	85	145	-10
25	15	40	80	10	65	250	80	80	60	135	65	Z-
26	-40	170	140	85	30	175	170	10	135	155	25	45
27	-5	10	300	Z-	15	105	130	210	100	85	130	60
28	35	125	-	-	105	130	85	125	255	330	140	Z-
29	-	-	145	155	85	90	95	40	310	190	160	165
30	150	190	30	160	25	125	135	40	105	120	-	-
31	-	-	-	-	30	85	60	65	-	-	-	-
(a)	72	102	111	99	73	119	104	96	92	125	103	77
(b)	64	101	101	90	55	118	87	93	87	118	106	74
Mean	(a) 96		(b) 89		(a) 98		(b) 88		(a) 99		(b) 96	

The potential gradient is reckoned as positive if the potential increases upwards. For indeterminate potential gradient the following notation is used: Z+, indeterminate, positive value; Z-, indeterminate, negative value; Z±, indeterminate, in magnitude and sign.

(a) Mean of all positive readings.

(b) Mean from all complete days using both positive and negative readings.

POTENTIAL GRADIENT (reduced to level surface)
Mean values for periods of sixty minutes between exact hours, G.M.T.

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90 ESKDALEUIR

	JULY, factor*				AUGUST, factor 9.90				SEPTEMBER, factor 10.14			
	2-3h.	8-9h.	14-15h.	20-21h.	2-3h.	8-9h.	14-15h.	20-21h.	2-3h.	8-9h.	14-15h.	20-21h.
	<i>volts per metre</i>											
1	-	-	305	160	80	105	125	225	85	75	220	165
2	80	Z-	95	80	60	90	135	100	50	145	85	80
3	Z-	Z-	-	-	100	225	75	70	55	105	95	5
4	-	-	50	100	55	175	155	105	115	195	100	25
5	50	100	-	130	240	210	175	195	20	140	115	120
6	60	95	75	-	150	170	120	80	20	85	110	35
7	-	-	-	-	80	170	-	-	10	190	150	35
8	-	-	-	-	-	-	120	30	10	15	25	0
9	-	-	-	-	20	45	185	100	240	180	Z±	100
10	-	-	-	-	60	165	75	60	100	130	100	120
11	-	-	-	-	50	140	180	165	45	190	150	60
12	-	-	-	-	70	55	140	170	85	125	Z-	Z±
13	-	-	-	-	250	240	190	155	15	Z±	Z-	210
14	-	-	-	-	230	165	155	115	180	185	Z-	65
15	-	-	150	240	270	270	135	35	175	115	25	110
16	80	120	190	170	35	165	105	50	55	185	120	190
17	215	135	105	45	120	Z±	Z-	290	90	120	-60	65
18	30	-30	15	15	75	185	160	185	120	90	75	165
19	70	100	95	75	425	350	565	170	35	120	190	160
20	80	-	55	55	90	135	135	180	120	190	140	195
21	75	215	90	50	10	270	60	10	190	210	175	425
22	45	90	95	145	Z±	340	105	110	210	220	165	105
23	80	70	115	360	100	75	80	140	105	180	175	190
24	70	100	240	240	135	100	105	135	75	130	105	425
25	135	150	-	-	100	50	95	70	160	90	Z-	145
26	-	110	150	100	60	50	90	65	75	80	140	145
27	100	135	125	65	40	150	125	45	-160	85	85	125
28	95	165	95	120	35	0	5	30	85	115	135	85
29	-35	95	75	70	15	100	75	85	320	355	45	110
30	80	190	195	170	30	210	105	180	Z-	155	130	155
31	60	85	100	100	230	90	80	95				
(a)	82	122	121	125	111	155	133	115	102	145	119	132
(b)	74	113	118	125	112	148	134	112	84	144	111	131
Mean	(a) 113 (b) 107				(a) 123 (b) 127				(a) 125 (b) 117			

*factor 9.06 1-6 JULY, 3.01 15-20 JULY, 9.46 21-31 JULY.

	OCTOBER, factor 9.87				NOVEMBER, factor 9.56				DECEMBER, factor 9.51			
	2-3h.	8-9h.	14-15h.	20-21h.	2-3h.	8-9h.	14-15h.	20-21h.	2-3h.	8-9h.	14-15h.	20-21h.
	<i>volts per metre</i>											
1	105	145	135	75	100	-	160	145	95	105	5	325
2	95	200	65	-	140	220	-75	-40	230	135	40	150
3	-	-	-340	40	190	195	175	190	105	105	125	195
4	35	20	130	25	140	210	185	190	40	15	170	510
5	40	50	105	-330	160	150	160	190	125	190	115	65
6	40	-30	170	300	85	125	190	190	75	60	Z-	Z-
7	20	-	65	-	35	-370	Z-	235	60	75	150	160
8	-	-	20	55	Z-	390	135	150	170	70	180	140
9	35	55	50	65	200	245	185	280	290	85	-120	20
10	-	90	160	15	135	375	85	Z-	Z-	75	-45	165
11	10	10	-	-	225	150	Z±	95	120	145	210	190
12	-	-	220	10	155	95	85	70	225	125	525	405
13	40	100	65	80	40	50	65	50	225	215	Z-	0
14	120	200	105	-10	35	170	85	140	165	435	-315	-185
15	45	-75	185	110	55	65	100	105	170	185	255	260
16	35	100	Z±	130	75	90	160	75	85	85	190	65
17	200	95	170	230	55	60	45	115	80	95	250	110
18	40	50	Z±	265	80	70	150	95	260	260	200	145
19	Z-	Z-	185	Z±	95	75	120	195	120	235	310	455
20	70	95	145	95	120	140	245	85	270	40	140	180
21	90	130	135	220	25	-45	135	290	130	235	220	290
22	110	90	120	160	70	160	Z-	80	125	-15	Z-	325
23	55	120	110	200	90	65	200	150	-90	125	85	Z-
24	75	95	-	-	65	-180	165	295	60	90	130	160
25	-	-	50	145	85	85	170	230	110	125	40	Z-
26	Z-	95	170	130	5	-	100	140	200	90	115	85
27	85	200	Z+	270	85	75	85	235	80	110	125	Z-
28	190	165	-	-	105	85	40	250	Z-	Z±	145	Z+
29	-	-	55	120	130	125	45	210	Z±	90	Z+	210
30	80	95	150	235	230	250	105	185	175	155	390	220
31	60	160	90	155					70	100	150	150
(a)	73	107	119	136	104	149	130	167	143	133	178	207
(b)	75	83	124	107	106	105	123	181	148	139	156	186
Mean	(a) 109 (b) 97				(a) 137 (b) 129				(a) 165 (b) 157			

The factor used for converting the potential at the collector to potential gradient in volts per metre in the open is given for each month.

Annual means	(a)	116	141	149	157
	(b)	113	132	144	155
	(a)	141	(b)	136	

POTENTIAL GRADIENT (reduced to level surface): DIURNAL INEQUALITIES
The departures from the mean of the day are adjusted for non-cyclic change†

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	Hour G.M.T.																								Non-cyclic change ¹	No. of days used	Mean
	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			v./m.
	volts per metre																										
	0a days only*																										
Jan.	+7	-5	-24	-51	-58	-26	-75	-76	-64	-118	-72	-20	+4	+17	+49	+18	+20	+38	+55	+59	+101	+107	+78	+45	-89	8	242
Feb.	+140	+122	+113	+101	+44	+50	+30	+6	-21	-23	-23	+1	+54	+58	+30	-52	-67	-2	+24	-50	-60	-121	-164	-196	+419	7	219
Mar.	-14	-19	+5	+12	-16	-26	-14	-8	+1	+3	+4	+9	+6	-6	-12	-4	-6	+1	+3	+6	+31	+34	+4	-8	-6	13	161
Apr.	+4	-17	-20	-28	-18	-28	-45	-27	-13	0	-4	-3	+21	+27	+7	+13	+10	+6	+13	+7	+44	+35	+31	-4	-14	2	88
May	-18	-29	-31	-22	-10	+3	+10	+41	+34	+25	+16	+20	+4	+8	+14	+11	+11	+3	+8	-16	-26	-22	-18	-25	-3	7	83
June	-43	-47	-32	-9	-5	+23	+38	+45	+56	+21	+12	+17	+18	+18	+22	+4	+10	+4	+16	+36	-26	-70	-65	-56	+22	4	101
July	-23	-42	-35	-33	-8	+16	+37	+34	+5	-2	+5	+15	+17	+22	+4	+1	+6	+3	+11	+8	+15	-9	-17	-27	-2	11	124
Aug.	-15	-23	-11	-27	-9	+18	+46	+32	+6	-5	-6	-8	-9	0	+2	0	0	+3	0	+8	0	+9	-11	-11	-16	13	123
Sept.	-11	+11	-39	-42	-33	-5	+47	+39	-7	-25	+25	-18	-24	-33	-18	0	+28	+57	+7	+7	+30	+12	-5	-4	-26	3	137
Oct.	-9	-20	-42	-51	-26	-26	-24	-18	-29	-26	-15	-6	+6	+20	+7	-4	+7	+30	+33	+44	+61	+33	+22	+18	-52	6	121
Nov.	-18	-34	-24	-18	-13	-22	-21	-18	-11	+7	+4	+4	+20	+5	0	+9	+11	+22	+31	+11	+24	+22	+15	+5	-21	9	107
Dec.	-45	-7	-34	-51	-71	-89	-74	-58	-32	-27	-9	-4	+22	+38	+54	+69	+65	+72	+61	+78	+45	+25	-7	-43	+27	6	215
Year	-4	-9	-15	-18	-19	-9	-4	-1	-6	-14	-5	+1	+12	+15	+13	+5	+8	+20	+22	+17	+20	+5	-11	-25	-	-	143
Winter	+21	+19	+8	-5	-25	-22	-35	-37	-32	-40	-25	-5	+25	+29	+33	+11	+7	+33	+43	+25	+27	+8	-19	-47	-	-	196
Equinox	-7	-11	-24	-27	-23	-21	-9	-3	-12	-12	+3	-5	+2	+2	-4	+1	+10	+23	+14	+16	+41	+29	+13	+1	-	-	127
Summer	-25	-35	-27	-23	-8	+15	+33	+38	+25	+10	+7	+11	+7	+12	+11	+4	+7	+3	+9	+9	-9	-23	-28	-30	-	-	108
	1a and 2a days only*																										
Jan.	+16	+12	-18	-25	-52	-33	-46	-112	-94	-87	-30	-52	0	+81	+53	+93	+35	+101	+68	+45	+54	-18	0	+3	-8	5	208
Feb.	+16	-17	-87	-48	-27	-16	-62	-33	-6	-24	-24	-1	+11	+17	+4	+8	-11	+35	+37	+19	+82	+69	+21	+27	-69	2	113
Mar.	-10	0	-47	-52	-25	-32	-49	-51	-42	+84	+47	+14	+93	+18	+28	+18	+40	+73	-58	-34	-14	+13	+3	-19	-93	3	213
Apr.	-25	-25	-25	-21	-17	-6	+8	+7	+22	+8	+10	+17	+20	+22	+18	+10	+14	+8	-4	-14	+4	+4	-11	-20	+4	15	90
May	-35	-51	-37	-23	-10	+10	+23	+22	+31	+22	+23	+11	+14	+14	-29	-10	-10	+23	+7	+18	+10	+7	-14	-30	+70	4	98
June	-26	-23	-8	-8	-5	+9	+6	+12	+8	+32	+29	+17	+10	+12	+9	-12	-6	+9	+4	+1	-12	-19	-22	-31	-3	11	93
July	+23	-32	-46	-54	-28	+5	+9	-19	-9	-35	-15	-11	+16	+15	+6	+21	+35	+35	+7	+8	+8	+29	+15	+16	-10	2	39
Aug.	-9	-12	-14	-17	-17	+35	+36	+43	+20	+17	+5	-18	+8	+21	-3	-14	+20	+15	-12	-11	-30	-30	-8	-9	+52	10	118
Sept.	-16	-9	-44	-19	-2	-12	+21	+19	+35	+26	+16	+14	+16	+7	+7	+9	+4	+9	-5	-7	-26	-35	-7	+2	-5	11	123
Oct.	-9	-2	+9	+18	+17	+17	+31	+62	+35	+26	+88	+29	+6	+15	+14	+4	+2	-72	-55	-66	-37	-31	-37	-42	+73	4	90
Nov.	-15	-24	+7	+4	-36	-56	-27	0	-4	+15	+13	+18	+15	+22	0	-18	-25	-20	+25	+76	+53	+16	-7	-35	+62	8	127
Dec.	-20	-31	-18	-16	-7	-2	-16	-32	-54	-9	+31	+112	+65	+45	+56	+29	-14	+2	+16	+14	-20	-51	-40	-40	-22	4	172
Year	-9	-18	-27	-22	-17	-7	-5	-7	-5	+6	+16	+13	+23	+24	+14	+11	+7	+18	+3	+4	+6	-4	-9	-17	-	-	124
Winter	-1	-15	-29	-21	-31	-27	-38	-44	-39	-26	-3	+19	+23	+41	+28	+28	-4	+29	+37	+39	+42	+4	-7	-11	-	-	155
Equinox	-15	-9	-27	-19	-7	-8	+3	+9	+13	+36	+40	+19	+34	+15	+17	+10	+15	+5	-31	-30	-18	-12	-13	-20	-	-	129
Summer	-12	-29	-26	-25	-15	+15	+19	+15	+13	+9	+11	0	+12	+15	-4	-4	+10	+21	+1	+4	-6	-3	-7	-13	-	-	87

Winter: January, February, November, December

Equinox: March, April, September, October

Summer: May to August.

* For explanation of 0a, 1a, 2a days see p.90, *Observatories' Year Book, 1938*.† See p.10, *Observatories' Year Book, 1938*.

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	JANUARY		FEBRUARY		MARCH		APRIL		MAY		JUNE	
	Character	Duration of negative potential gradient	Character	Duration of negative potential gradient	Character	Duration of negative potential gradient	Character	Duration of negative potential gradient	Character	Duration of negative potential gradient	Character	Duration of negative potential gradient
		hr.		hr.		hr.		hr.		hr.		hr.
1	0a	...	1c	2.1	2b	5.2	0a	...	2c	6.9	0a	...
2	1a	0.3	2c	7.1	0a	...	2b	4.5	1b	2.0	(0a)	...
3	1b	1.9	1a	0.1	1a	0.1	2c	4.7	2c	5.9	1a	1.3
4	1b	0.5	0a	...	0a	...	1a	1.6	2c	6.8	1b	1.0
5	(1a)	(0.2)	0a	...	0b	...	1a	1.2	2c	11.0	0a	...
6	0a	...	1a	0.1	1b	0.7	1a	1.3	1b	2.7	(0a)	...
7	0a	...	2c	3.6	2b	4.3	1b	2.1	1a	0.5	2b	6.9
8	1a	0.2	2b	4.6	1b	0.2	2b	5.7	(2c)	7.7	1b	0.8
9	2b	3.9	0a	...	0a	...	2b	4.5	(2c)	8.1	1a	0.5
10	2c	9.0	1a	0.3	0a	...	1a	0.4	(2b)	5.9	2b	3.4
11	1c	0.5	1b	0.4	0a	...	1a	0.1	1c	1.7	1b	1.5
12	0a	...	1c	1.7	0a	...	0a	...	2b	5.3	2b	6.3
13	0a	...	1b	0.5	1b	0.4	1a	0.1	2c	6.7	1a	0.5
14	1a	0.3	0b	...	0a	...	1a	0.4	(1c)	1.1	2b	3.8
15	(0b)	...	0a	...	0a	...	1a	0.2	1b	1.2	1a	0.1
16	1b	0.2	0b	...	1a	0.9	1a	0.5	2c	3.4	1a	0.7
17	1a	0.1	(1b)	0.5	0a	...	1a	0.1	0a	...	0a	...
18	0a	...	(1b)	1.1	1b	0.9	1a	0.1	1c	1.4	0a	...
19	0a	...	0a	...	1a	0.2	1a	0.6	1b	0.1	1a	0.5
20	0a	...	1b	0.1	2c	5.7	1a	1.7	1c	2.6	2a	3.5
21	2b	6.0	1b	0.6	1b	2.1	1a	2.0	1b	1.2	1a	0.3
22	1b	1.5	1b	0.5	0a	...	(1a)	1.1	1a	1.9	1a	0.6
23	1a	0.4	1c	1.3	1c	2.8	2b	3.1	0a	...	1b	1.9
24	(1a)	0.9	1b	1.2	2c	9.4	1a	0.7	0a	...	1b	0.7
25	(0a)	...	0a	...	(2c)	5.6	1b	2.9	0a	...	2b	4.9
26	1b	2.7	0a	...	(1a)	0.1	2b	3.2	1a	0.9	1b	2.1
27	2c	6.7	0a	...	0a	...	2b	7.1	1a	1.3	1a	0.1
28	2b	6.5	1b	1.7	0a	...	(1b)	0.9	(0a)	...	2b	5.1
29	2b	8.4			0a	...	1b	1.4	0a	...	1a	0.1
30	2c	3.9			0a	...	1a	0.7	0a	...	(0a)	...
31	1b	1.9			0a	...			0a	...		
Total	-	56.0	-	27.5	-	38.6	-	52.9	-	86.3	-	46.6
No. of days used	-	31	-	28	-	31	-	30	-	31	-	30
Mean	-	1.8	-	1.0	-	1.2	-	1.8	-	2.8	-	1.6

	JULY		AUGUST		SEPTEMBER		OCTOBER		NOVEMBER		DECEMBER	
	Character	Duration of negative potential gradient	Character	Duration of negative potential gradient	Character	Duration of negative potential gradient	Character	Duration of negative potential gradient	Character	Duration of negative potential gradient	Character	Duration of negative potential gradient
		hr.		hr.		hr.		hr.		hr.		hr.
1	(1b)	1.2	0a	...	1a	0.4	0a	...	1a	0.1	1b	1.5
2	1b	2.0	1a	0.2	1b	2.6	2c	3.1	2b	7.6	1b	2.4
3	(2b)	8.8	(0a)	...	1a	0.9	1b	1.2	1b	2.2	1c	1.6
4	(0a)	...	0a	...	1a	2.9	1a	0.4	1a	0.4	1b	1.3
5	(0a)	...	0a	...	1b	2.5	2c	4.5	1b	0.9	1a	0.2
6	(0a)	...	0a	...	1a	0.1	2b	4.0	1b	1.9	2c	6.4
7	(0a)	...	(0a)	...	1a	0.5	0a	...	2c	6.5	1b	2.7
8	(0a)	...	(0a)	...	2c	2.8	0a	...	2b	3.6	0a	...
9	(0a)	...	1a	0.6	1b	4.1	1a	...	1a	2.5	2c	10.6
10	(0a)	...	0a	...	0a	...	0a	...	2b	4.3	2c	8.1
11	(0a)	...	0a	...	1b	2.7	0a	...	2c	5.2	0a	...
12	(1b)	1.0	1a	0.1	2c	5.2	0a	...	0a	...	0a	...
13	(0a)	...	0a	...	1b	2.5	1a	0.5	0a	...	2c	9.4
14	(0a)	...	1a	0.2	2b	3.3	1a	1.4	0a	...	2c	8.4
15	(0a)	...	1a	0.3	1b	1.6	1b	0.7	0a	...	1b	2.7
16	0a	...	1a	0.1	1b	1.0	2c	4.1	1a	0.1	2b	5.1
17	0a	...	(1b)	2.5	1b	1.0	0a	...	0a	...	1a	0.6
18	2a	6.0	1a	0.1	0a	...	1b	1.8	0a	...	0a	...
19	0a	...	1b	0.3	1a	0.3	2c	11.7	0a	...	0a	...
20	0b	...	1b	0.7	1a	0.1	1b	2.2	1a	0.6	1a	0.3
21	0a	...	2b	5.2	1b	1.5	1a	0.2	1a	0.6	0a	...
22	0a	...	1b	0.3	1a	0.3	0a	...	1b	0.9	2b	5.4
23	0a	...	0a	...	0a	...	0a	...	0a	...	2c	5.8
24	0a	...	0a	...	1b	2.5	0a	...	1b	1.8	1b	2.0
25	(0a)	...	0a	...	1b	1.0	0a	...	1b	0.8	2c	7.6
26	(0a)	...	0a	...	2c	3.4	1b	1.3	1b	2.1	1b	2.8
27	0a	...	0a	...	1a	0.4	1b	0.1	1a	0.1	2b	6.1
28	0a	...	1a	2.5	1a	0.3	1b	0.2	1a	0.4	2c	8.3
29	1a	2.8	1a	0.5	1a	0.1	1b	1.9	1a	0.5	2c	3.3
30	0a	...	1a	0.5	1b	0.9	0a	...	0a	...	1a	0.1
31	0a	...	0a	...			2b	3.3			1b	1.1
Total	-	21.8	-	14.1	-	44.9	-	42.6	-	43.1	-	103.8
No. of days used	-	31	-	31	-	30	-	31	-	30	-	31
Mean	-	0.7	-	0.5	-	1.5	-	1.4	-	1.4	-	3.4

Annual values: Character 0 1 2
No. of days used 125 171 69Duration: Total 578.2 hr.
No. of days 365
Mean 1.58 hr.

In early July Electrograph dismantled for investigation of source of contamination. Character figures estimated from weather data.

TERRESTRIAL MAGNETIC FORCE: HORIZONTAL COMPONENT
Mean values for periods of sixty minutes ending at exact hours, G.M.T.

93 ESKDALEMUIR (H)												16,000γ (0.16 C.G.S. unit) +												JANUARY 1955																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																							
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MAGNETIC DECLINATION (WEST)
Mean values for periods of sixty minutes ending at exact hours, G.M.T.

94	ESKDALEMUIR (D)												10° +										JANUARY 1955									
	Hour G.M.T.																									Mean						
	0-1	1-2	2-3	3-4	4-5	5-6	6-7	7-8	8-9	9-10	10-11	11-12	12-13	13-14	14-15	15-16	16-17	17-18	18-19	19-20	20-21	21-22	22-23	23-24								
1	58.1	57.2	57.4	58.4	58.8	59.1	59.1	59.8	60.2	61.5	62.3	63.2	62.7	61.6	61.0	61.1	61.8	61.7	61.6	59.0	57.8	59.3	57.9	57.4	59.9							
2	59.0	58.6	57.8	59.1	59.7	59.2	59.4	59.2	59.5	60.2	61.5	63.2	63.9	63.3	62.2	60.8	61.7	61.0	60.8	60.5	60.0	59.5	59.1	60.0	60.4							
3	60.1	59.9	59.8	59.8	59.9	59.8	59.4	59.8	59.2	59.9	62.4	63.5	64.0	64.2	61.7	60.8	60.4	60.1	59.6	59.3	59.3	59.2	59.2	58.8	60.4							
4	59.1	58.8	56.7	59.5	59.3	59.7	59.8	59.5	59.6	60.0	61.5	63.0	63.7	62.3	60.6	62.2	61.9	60.1	57.7	59.1	58.0	54.5	58.4	59.0	59.7							
5	59.4	59.9	59.9	59.6	59.5	59.7	59.3	59.0	58.9	58.8	60.1	61.0	62.1	61.7	60.9	60.6	60.0	59.9	59.4	59.1	58.5	49.7	56.6	57.0	59.2							
6	58.1	58.5	58.6	57.2	54.5	55.7	57.9	58.0	58.1	59.3	59.9	61.0	62.1	62.4	61.4	60.9	60.8	60.5	60.3	55.6	57.0	57.7	58.1	58.0	58.8							
7	58.4	58.8	57.6	57.3	58.8	59.1	59.0	58.7	58.6	59.0	60.2	61.6	63.7	63.9	62.1	62.4	62.5	62.9	61.3	60.8	58.8	58.1	58.9	58.6	60.0							
8	59.1	59.5	59.3	59.5	59.6	59.5	58.9	59.0	58.6	58.4	59.1	60.6	62.1	61.8	61.6	62.3	60.9	60.8	59.2	58.1	59.7	58.1	57.7	55.8	59.5							
9 d	49.6	54.1	58.9	57.7	57.5	57.1	63.8	59.5	60.3	59.0	60.0	61.8	63.2	62.5	67.0	58.1	63.6	62.2	57.2	60.1	59.5	58.9	58.7	58.5	59.5							
10 q	58.4	58.5	58.6	58.9	59.5	59.1	59.0	58.6	58.6	59.5	59.8	60.6	61.6	60.9	60.1	60.7	60.8	60.9	61.2	59.7	58.3	59.8	59.5	59.2	59.7							
11	58.5	60.5	60.3	58.1	59.3	59.8	59.5	59.5	59.3	59.8	59.9	60.9	62.4	64.5	65.5	61.7	61.8	61.9	61.7	60.7	60.3	60.7	49.1	49.3	59.8							
12	53.3	47.5	55.9	57.5	58.8	59.0	59.5	59.7	59.3	59.5	59.4	60.0	61.0	60.9	60.5	60.2	60.4	60.5	60.4	60.1	60.1	59.7	59.6	59.3	58.8							
13	59.5	58.5	56.2	58.5	58.6	57.2	59.8	60.1	59.6	60.8	61.7	61.3	60.9	61.8	62.2	59.5	60.9	61.2	59.9	59.5	57.5	57.5	58.1	58.5	59.6							
14	59.0	59.2	59.1	59.5	59.7	59.4	59.3	59.3	59.7	60.2	60.8	61.4	61.7	61.5	60.2	61.8	62.5	61.0	53.9	59.2	58.5	58.2	58.2	58.7	59.7							
15 q	58.8	58.9	59.1	59.5	59.1	59.5	59.4	59.2	59.5	60.2	60.2	60.8	60.8	60.6	59.9	60.0	60.2	59.8	59.3	59.0	58.7	58.9	59.0	58.8	59.5							
16	59.2	58.7	59.3	58.8	58.9	59.7	59.2	59.2	59.5	60.4	61.7	62.4	63.5	63.5	62.8	63.6	62.7	61.9	61.1	59.5	57.2	56.1	58.6	59.1	60.3							
17 d	58.8	59.0	58.7	60.5	58.9	58.4	58.6	58.6	59.0	61.2	60.1	59.1	63.7	68.4	70.6	68.3	61.3	59.5	60.5	59.9	58.4	58.9	59.6	57.2	60.7							
18 d	57.6	60.1	39.8	55.8	54.5	57.7	52.1	56.0	55.9	56.9	57.7	58.6	60.1	61.3	61.2	60.3	59.8	54.5	57.8	53.5	52.5	54.4	55.9	57.7	56.1							
19 d	60.8	61.1	60.4	66.0	66.7	70.1	78.5	71.7	65.2	58.8	64.8	63.2	60.3	60.7	64.8	60.8	59.7	48.4	49.5	52.3	51.6	51.9	55.4	52.3	60.6							
20 d	54.1	54.8	51.7	54.4	55.9	58.6	59.4	58.1	58.4	58.9	59.5	60.3	60.8	62.6	62.9	61.2	60.5	60.3	60.7	54.1	54.8	59.1	57.7	56.4	58.1							
21	58.7	55.2	57.3	58.0	59.3	59.6	59.6	59.5	59.1	58.7	59.5	60.6	61.5	61.6	60.6	60.8	60.3	61.0	61.7	60.6	60.3	58.6	59.0	59.4	59.6							
22	56.6	55.8	57.7	57.9	58.9	59.2	59.9	59.2	58.9	58.9	59.7	60.2	61.6	60.7	60.7	60.6	60.7	60.6	59.9	59.8	59.5	59.0	58.9	57.6	59.3							
23	58.1	56.6	55.0	57.3	59.1	59.2	59.4	60.0	61.0	62.0	62.4	62.2	62.4	62.9	62.3	62.6	61.7	57.8	61.0	59.3	47.3	50.9	52.5	56.0	58.7							
24 q	57.6	57.9	59.2	58.9	58.9	58.6	58.5	58.6	57.9	58.6	58.9	59.9	60.1	61.1	61.5	61.5	60.3	61.3	60.4	59.7	58.7	58.3	57.6	58.6	59.3							
25 q	59.8	58.9	59.2	59.3	59.2	59.7	59.7	59.0	59.0	58.8	59.3	60.7	61.6	61.7	61.2	60.6	59.8	59.7	60.2	60.3	58.9	58.3	58.0	58.1	59.6							
26 q	58.0	58.6	58.6	59.5	59.1	59.3	59.0	58.5	58.2	58.6	59.2	60.7	61.7	61.6	61.2	60.5	59.8	59.7	60.2	60.3	59.9	58.3	58.0	58.0	59.4							
27	58.0	58.6	58.5	59.3	59.0	59.3	58.9	58.5	58.1	60.4	60.0	60.6	61.7	62.1	62.5	61.7	61.9	63.7	63.5	61.3	54.0	50.2	57.5	57.6	59.5							
28	56.7	55.5	53.6	54.5	56.2	56.6	58.2	58.3	58.4	58.7	59.1	59.8	60.3	60.7	60.1	60.0	60.0	60.1	60.2	59.8	59.1	58.5	59.1	59.7	58.5							
29	57.8	58.9	59.2	59.0	58.9	59.2	59.2	59.1	59.5	59.5	59.5	59.9	60.6	61.1	61.6	60.7	60.3	60.0	60.2	60.5	56.7	50.7	48.0	54.7	58.5							
30	58.2	59.5	59.4	58.0	58.5	58.4	58.7	58.9	58.5	59.5	59.9	60.6	61.6	61.9	61.9	61.5	61.2	60.2	61.3	61.2	59.9	55.4	57.5	57.4	59.5							
31	57.2	57.7	57.7	58.0	57.1	58.0	58.2	58.6	59.2	59.9	60.8	60.0	60.3	60.8	60.9	60.7	60.6	60.0	58.7	59.8	59.5	58.7	54.3	56.7	58.9							
Mean	57.9	57.9	57.4	58.6	58.8	59.0	59.7	59.4	59.2	59.5	60.4	61.1	61.9	62.1	62.1	61.2	61.0	60.1	59.7	59.1	57.7	57.0	57.3	57.5	59.4							

TERRESTRIAL MAGNETIC FORCE: VERTICAL COMPONENT
Mean values for periods of sixty minutes ending at exact hours, G.M.T.

65

95 ESKDALEMUIR (Z)		44,000γ (0.44 C.G.S. unit) +											JANUARY 1955														
	Hour G.M.T.	0-1	1-2	2-3	3-4	4-5	5-6	6-7	7-8	8-9	9-10	10-11	11-12	12-13	13-14	14-15	15-16	16-17	17-18	18-19	19-20	20-21	21-22	22-23	23-24	Mean	
		γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	
1		1237	1234	1236	1236	1237	1235	1234	1234	1234	1234	1233	1233	1233	1237	1239	1238	1239	1239	1239	1243	1244	1244	1247	1249	1238	
2		1248	1244	1243	1239	1238	1238	1238	1238	1237	1237	1233	1233	1232	1232	1233	1233	1236	1238	1238	1238	1238	1239	1243	1240	1238	
3		1240	1239	1238	1237	1236	1237	1237	1238	1238	1240	1239	1238	1238	1238	1238	1238	1238	1238	1238	1237	1238	1237	1237	1237	1238	
4		1234	1222	1232	1234	1234	1233	1233	1236	1238	1240	1239	1238	1233	1236	1241	1240	1240	1244	1244	1244	1244	1243	1239	1238	1237	
5		1239	1238	1237	1235	1236	1236	1235	1238	1239	1242	1243	1243	1241	1241	1240	1238	1238	1239	1239	1239	1243	1241	1239	1242	1239	
6		1243	1244	1244	1240	1239	1238	1238	1238	1238	1239	1238	1236	1237	1238	1238	1237	1239	1240	1243	1247	1244	1244	1241	1241	1240	
7		1240	1238	1233	1233	1233	1233	1233	1233	1237	1238	1237	1236	1237	1238	1241	1241	1243	1244	1250	1253	1251	1249	1247	1243	1240	
8		1238	1237	1236	1238	1237	1237	1238	1238	1238	1239	1238	1238	1238	1241	1244	1243	1242	1241	1244	1245	1245	1248	1246	1250	1241	
9	d	1244	1241	1238	1238	1234	1234	1227	1226	1227	1233	1236	1237	1238	1238	1244	1274	1263	1271	1267	1259	1250	1247	1245	1244	1244	
10	q	1244	1244	1243	1242	1239	1238	1238	1237	1237	1235	1236	1234	1233	1236	1237	1238	1239	1238	1238	1240	1238	1237	1238	1238	1238	
11		1238	1237	1228	1232	1233	1234	1234	1236	1234	1235	1236	1233	1234	1247	1245	1242	1240	1240	1240	1244	1243	1243	1229	1238	1237	
12		1243	1234	1238	1238	1238	1238	1238	1238	1237	1234	1234	1232	1232	1233	1233	1237	1238	1238	1238	1238	1237	1237	1237	1238	1237	
13		1237	1233	1233	1233	1233	1232	1231	1230	1230	1227	1232	1233	1237	1234	1237	1243	1244	1244	1243	1243	1244	1243	1240	1238	1236	
14		1238	1236	1236	1236	1235	1236	1234	1233	1232	1233	1233	1233	1233	1237	1243	1244	1247	1252	1257	1245	1244	1241	1241	1239	1239	
15	q	1240	1240	1239	1238	1238	1238	1238	1238	1237	1238	1239	1240	1239	1242	1241	1238	1238	1239	1239	1238	1238	1238	1238	1238	1239	
16		1238	1237	1237	1238	1238	1238	1238	1237	1236	1237	1234	1233	1234	1237	1238	1241	1240	1243	1244	1248	1247	1245	1242	1239	1239	
17	d	1239	1239	1238	1237	1233	1233	1234	1233	1232	1229	1228	1233	1233	1234	1274	1286	1268	1261	1256	1252	1251	1250	1249	1253	1245	
18	d	1217	1067	1143	1162	1164	1190	1217	1236	1249	1253	1252	1251	1247	1249	1251	1259	1265	1273	1262	1261	1248	1250	1252	1243	1228	
19	d	1192	1176	1182	1158	1150	1158	1160	1193	1232	1271	1282	1287	1297	1304	1286	1272	1263	1266	1264	1245	1238	1234	1201	1228	1231	
20	d	1225	1209	1209	1221	1229	1233	1239	1245	1245	1246	1247	1246	1244	1248	1251	1255	1250	1249	1251	1260	1257	1248	1237	1235	1241	
21		1217	1232	1238	1240	1240	1239	1239	1240	1241	1241	1244	1244	1240	1243	1244	1245	1245	1246	1249	1252	1248	1243	1251	1248	1242	
22		1240	1243	1244	1244	1244	1243	1241	1241	1239	1239	1238	1240	1240	1241	1244	1245	1244	1244	1244	1244	1244	1244	1244	1245	1242	
23		1245	1233	1232	1236	1238	1238	1238	1238	1237	1238	1238	1243	1244	1248	1249	1251	1252	1260	1256	1267	1267	1252	1247	1245	1245	
24	q	1245	1247	1247	1246	1245	1244	1244	1244	1244	1244	1238	1237	1238	1239	1239	1243	1245	1247	1245	1246	1247	1248	1250	1250	1248	
25	q	1243	1243	1243	1243	1244	1243	1241	1240	1240	1241	1244	1244	1243	1244	1244	1245	1245	1245	1245	1247	1248	1248	1247	1245	1245	
26	q	1245	1245	1245	1244	1243	1243	1242	1240	1239	1239	1239	1238	1236	1237	1240	1242	1243	1243	1243	1242	1241	1240	1240	1241	1241	
27		1241	1243	1242	1241	1241	1241	1240	1238	1238	1234	1234	1233	1231	1233	1232	1234	1237	1244	1262	1271	1284	1278	1260	1254	1245	
28		1242	1228	1226	1234	1240	1240	1239	1241	1243	1243	1242	1239	1238	1237	1239	1243	1244	1245	1244	1244	1245	1247	1244	1236	1240	
29		1238	1239	1241	1242	1242	1240	1240	1239	1238	1239	1240	1240	1240	1240	1242	1244	1245	1244	1246	1248	1251	1254	1247	1249	1243	
30		1245	1244	1244	1244	1244	1244	1243	1241	1243	1240	1239	1239	1238	1238	1237	1238	1240	1245	1245	1249	1252	1249	1249	1246	1243	
31		1244	1240	1239	1239	1241	1242	1241	1241	1240	1238	1238	1238	1237	1234	1237	1238	1239	1242	1243	1240	1241	1244	1240	1233	1240	
Mean		1237	1230	1232	1233	1233	1234	1234	1236	1238	1239	1239	1239	1239	1241	1243	1245	1245	1245	1247	1247	1247	1247	1245	1242	1242	1240

DAILY EXTREMES OF TERRESTRIAL MAGNETIC ELEMENTS, MAGNETIC CHARACTER FIGURES AND TEMPERATURE IN MAGNET HOUSE

96 ESKDALEMUIR		TERRESTRIAL MAGNETIC ELEMENTS											JANUARY 1955			
		Horizontal force			Declination			Vertical force			3-hr. range indices K	Sum of K indices	Magnetic character of day (0-2)	Temperature in magnet house 200 +		
		Maximum 16,000γ +	Minimum 16,000γ +	Range	Maximum 10° +	Minimum 10° +	Range	Maximum 44,000γ +	Minimum 44,000γ +	Range						
		h. m. γ	γ h. m.	γ	h. m. °	° h. m.	°	h. m. γ	γ h. m.	γ				°A.		
1		07 15 676	641 23 30	35	11 19 63.4	55.4 20 00	8.0	23 07 1251	10 36 18	18	1,0,1,1,1,1,2,2	9	0	84.4		
2		14 14 687	639 00 19	48	11 50 64.2	56.3 01 54	7.9	00 25 1249	1232 13 50	17	2,1,1,1,1,2,1,2	11	0	84.4		
3		15 49 677	651 11 44	26	11 49 65.0	57.9 24 00	7.1	00 06 1241	1235 23 46	6	1,0,1,1,1,1,0,2	7	0	84.4		
4		01 00 699	633 02 19	66	12 06 64.4	52.8 21 30	11.6	17 49 1246	1222 01 25	24	4,2,1,1,2,2,2,2	16	1	84.4		
5		21 15 712	647 23 51	65	13 10 62.6	44.1 21 12	18.5	21 00 1245	1234 06 00	11	1,0,0,0,1,1,3,4	10	0	84.4		
6		19 50 691	637 19 34	54	13 07 63.1	52.5 05 00	10.6	19 36 1253	1236 12 03	17	2,2,1,1,1,2,3,1	13	1	84.4		
7		13 48 680	628 18 43	52	13 03 64.4	56.6 02 55	7.8	19 00 1255	1232 02 39	23	2,1,1,1,2,1,3,2	13	0	84.4		
8		23 57 695	648 23 39	47	13 29 62.4	54.9 23 40	7.5	23 40 1253	1236 02 30	17	1,0,1,1,0,1,2,3	9	0	84.4		
9	d	00 00 693	582 15 21	111	14 57 68.8	45.2 00 35	23.6	15 38 1285	1220 06 52	65	4,1,3,2,3,4,3,0	20	1	84.4		
10	q	08 51 676	652 16 23	24	12 30 61.8	57.9 20 10	3.9	00 40 1244	1233 12 03	11	0,0,1,1,1,1,2,0	6	0	84.4		
11		21 51 755	595 13 08	160	22 00 71.7	39.2 22 43	32.5	21 41 1252	1214 22 02	38	2,1,1,1,4,1,2,5	17	1	84.1		
12		19 50 682	589 01 23	93	13 05 61.3	38.9 01 33	22.4	00 31 1245	1229 11 51	16	4,1,1,1,0,1,1,0	9	1	84.1		
13		09 33 684	634 14 44	50	14 37 63.5	53.7 02 21	9.8	16 00 1246	1227 09 35	19	3,2,2,3,2,1,1,2	16	0	84.4		
14		18 35 684	615 18 12	69	16 06 63.4	45.0 18 26	18.4	18 24 1264	1232 09 15	32	0,0,1,1,3,2,4,1	12	1	84.4		
15	q	08 56 669	656 15 25	13	11 05 60.9	58.5 00 13	2.4	14 11 1243	1236 09 19	7	0,0,0,0,0,0,0,0	0	0	84.4		
16		12 20 688	655 18 49	33	15 30 64.3	53.4 20 57	10.9	21 05 1249	1233 11 15	16	1,1,1,2,2,1,2,2	12	0	84.4		
17	d	18 58 749	517 14 35	232	14 31 78.4	52.1 23 38	26.3	14 36 1298	1228 10 27	70	0,2,2,3,6,4,5,5	27	2	84.4		
18	d	17 48 704	305 01 29	399	01 18 74.1	33.0 02 24	41.1	17 35 1285	984 01 30	301	7,5,4,2,2,5,4,4	23	2	84.4		
19	d	19 10 692	555 09 35	137	06 26 82.7	42.9 19 10	39.8	13 00 1314	1131 03 40	183	4,4,5,4,3,4,4,4	32	1	84.4		
20	d	23 54 687	589 02 17	98	24 00 64.0	45.4 19 50	18.6	20 06 1262	1205 02 12	57	4,2,2,1,2,2,4,3	20	1	84.3		
21		20 38 690	635 01 32	55	00 01 64.2	54.3 01 08	9.9	20 06 1254	1214 00 20	40	3,1,1,0,0,1,3,2	11	0	84.4		
22		08 01 672	642 01 29	30	12 51 61.6	53.6 01 00	8.0	15 33 1247	1238 10 30	9	3,1,1,0,0,1,0,0,1	7	0	84.5		
23		01 15 702	630 20 21	72	14 12 64.8	42.2 20 22	22.6	20 21 1274	1230 02 03	44	3,2,2,2,2,3,4,3	21	1	84.5		
24	q	06 04 668	649 00 00	19	15 45 61.7	56.7 22 57	5.0	21 50 1251	1236 10 44	15	1,0,0,1,1,1,0,1	6	0	84.5		
25	q	08 55 672	649 19 02	23	12 25 61.8	57.8 23 51	4.0	20 40 1249	1238 08 59	11	0,0,0,0,1,1,0,1,1	4	0	84.5		
26	q	21 24 672	656 10 20	16	12 24 61.9	57.7 23 50	4.2	00 01 1245	1238 08 40	7	0,0,0,0,1,1,1,1,0	4	0	84.5		
27		14 00 691	598 21 21	93	17 50 65.2	48.5 21 10	16.7	20 34 1288	1231 12 40	57	0,0,0,2,1,4,4,4,4	15	1	84.5		
28		23 19 678	641 00 40	37	12 52 60.8	53.0 02 25	7.8	21 24 1248	1222 02 15	26	2,2,1,1,0,1,1,2	10	0	84.5		
29		21 51 692	627 22 40	65	14 17 61.7	45.7 22 23	16.0	21 20 1257	1236 00 00	21	1,0,0,1,0,1,3,4	10	0	84.5		
30		21 19 695	647 13 05	48	12 41 63.5	53.0 21 41	10.5	20 49 1255	1236 14 28	19	1,1,0,1,2,2,2,3	12	0	84.5		
31		22 05 692	655 02 40	37	14 17 61.3	52.3 22 18	9.0	00 00 1245	1233 23 15	12	2,1,1,1,0,1,1,3	10	0	84.5		
Mean		- - 690	616 - -	74	- - 64.9	50.7 - -	14.3	- - 1258	1219 - -	39	-	-	0.45	84.4		

TERRESTRIAL MAGNETIC FORCE: HORIZONTAL COMPONENT
Mean values for periods of sixty minutes ending at exact hours, G.M.T.

97 ESKDALEMUIR (H)													16,000γ (0.16 C.G.S. unit) +													FEBRUARY 1955												
	Hour G.M.T.																																					
	0-1	1-2	2-3	3-4	4-5	5-6	6-7	7-8	8-9	9-10	10-11	11-12	12-13	13-14	14-15	15-16	16-17	17-18	18-19	19-20	20-21	21-22	22-23	23-24	Mean													
	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ													
1 q	667	666	666	666	668	669	668	670	672	668	666	667	665	670	674	675	671	669	668	664	664	661	660	664	667													
2 q	661	659	659	660	664	670	674	677	671	669	668	664	660	656	654	643	646	651	661	664	658	648	656	659	661													
3	670	658	649	661	672	672	671	670	665	670	674	669	666	668	664	662	658	661	661	661	658	663	660	663	664													
4 d	662	660	658	665	666	665	676	679	683	678	651	647	658	663	660	658	654	650	657	649	635	621	636	648	657													
5 d	649	659	645	646	655	656	659	669	668	666	664	651	633	650	653	646	648	653	633	638	655	673	679	636	653													
6	654	657	657	661	657	670	668	664	664	660	666	661	659	664	654	634	643	662	663	666	654	648	642	647	657													
7	661	657	647	642	656	669	662	664	668	669	667	659	655	644	631	648	656	657	656	649	657	659	661	660	656													
8	664	657	657	655	658	662	664	666	668	669	663	663	661	664	665	660	637	646	649	654	649	686	673	655	660													
9	658	660	661	660	661	657	660	671	674	676	672	657	666	665	666	666	670	668	639	642	653	657	658	661	662													
10 q	662	657	653	655	655	657	657	655	664	664	663	661	659	663	671	667	665	666	665	663	666	669	669	667	662													
11	666	663	662	664	668	670	666	666	667	669	666	664	666	675	675	661	648	651	637	618	630	612	646	641	656													
12	655	649	647	643	650	655	660	658	663	658	654	653	657	659	661	665	662	656	651	643	654	686	661	650	656													
13	652	655	657	659	658	662	663	665	664	649	651	654	661	667	670	649	653	655	659	665	666	666	664	664	659													
14	662	661	660	659	659	662	669	674	669	654	658	659	664	652	661	663	662	640	658	666	660	647	652	658	659													
15	666	638	642	648	657	671	664	668	656	654	658	657	659	659	660	661	661	664	664	665	664	665	665	664	660													
16	662	662	662	664	666	668	670	671	672	666	664	668	674	672	659	656	658	664	650	659	655	658	663	664	664													
17	666	649	659	664	661	663	666	666	668	669	666	657	651	661	666	664	664	666	668	666	664	672	667	677	664													
18	670	667	663	665	674	672	676	674	672	666	663	655	658	665	668	666	667	670	668	646	636	651	649	660	663													
19 q	659	663	658	656	661	662	667	676	675	672	668	662	666	676	676	671	669	666	666	666	666	666	671	670	667													
20	670	669	672	679	675	670	674	675	674	675	671	671	675	676	668	658	661	665	659	663	667	670	666	665	669													
21	682	668	657	656	651	685	676	684	673	674	672	663	655	649	657	648	655	658	664	664	663	670	669	668	665													
22 d	672	653	653	651	674	677	664	668	667	656	646	630	651	657	662	666	662	664	667	661	667	681	666	666	662													
23 d	663	668	663	666	666	674	678	688	679	655	633	633	644	646	649	655	644	664	638	629	672	666	670	662	659													
24	666	668	661	659	661	665	665	672	666	671	666	664	670	669	657	656	655	653	662	675	682	674	667	672	666													
25	679	662	661	655	670	676	672	672	670	664	660	645	660	675	676	661	657	659	658	657	657	666	667	666	664													
26	657	653	658	662	670	658	662	664	662	659	659	666	667	664	665	665	664	665	665	666	669	670	666	666	663													
27 q	665	664	666	666	665	670	670	668	662	658	655	654	663	666	664	664	670	669	666	674	679	681	688	684	668													
28 d	699	685	634	645	637	647	643	656	654	653	638	636	643	643	641	651	650	656	661	661	659	661	660	658	653													
Mean	665	660	657	658	662	666	667	670	668	665	661	657	659	662	662	659	657	660	658	657	659	662	663	661	661													

MAGNETIC DECLINATION (WEST)
Mean values for periods of sixty minutes ending at exact hours, G.M.T.

98 ESKDALEMUIR (D)													11° +													FEBRUARY 1955												
	Hour G.M.T.																																					
	0-1	1-2	2-3	3-4	4-5	5-6	6-7	7-8	8-9	9-10	10-11	11-12	12-13	13-14	14-15	15-16	16-17	17-18	18-19	19-20	20-21	21-22	22-23	23-24	Mean													
1 q	58.3	59.0	59.0	58.9	58.8	58.7	58.7	58.7	59.1	59.8	60.3	61.0	61.2	61.9	61.6	60.6	60.3	59.9	59.3	59.2	58.1	58.8	58.1	56.6	59.4													
2 q	57.1	57.2	58.0	58.5	58.9	58.9	58.9	58.9	59.0	59.8	60.7	61.8	62.6	62.7	62.1	61.8	61.6	60.4	59.8	59.6	57.3	57.6	57.0	59.7	59.7													
3	53.0	54.9	56.3	60.3	58.9	57.4	59.0	59.9	60.2	60.6	60.7	60.9	61.5	62.7	62.5	62.6	63.3	62.7	61.8	60.8	59.3	58.2	55.9	57.7	59.6													
4 d	57.4	57.9	56.9	56.7	56.5	57.1	57.3	58.3	59.1	61.0	61.2	65.7	63.8	62.7	62.1	61.4	63.5	61.7	59.8	59.0	50.0	54.3	54.1	51.2	58.7													
5 d	56.3	59.8	54.7	57.4	57.7	57.6	59.5	58.8	59.0	58.4	59.1	60.5	62.4	63.1	62.8	62.1	62.3	60.2	54.5	56.2	58.6	55.9	55.0	53.1	58.5													
6	57.5	58.6	58.9	57.8	58.9	60.4	58.1	58.5	58.8	58.6	60.1	61.1	60.4	63.0	63.9	63.9	63.8	60.2	59.8	60.3	59.7	54.1	54.5	57.4	59.5													
7	55.1	55.2	54.6	56.0	60.3	57.7	58.5	59.0	59.8	60.4	60.7	61.1	62.6	63.1	60.7	60.2	60.9	60.9	59.0	56.9	57.6	57.8	57.9	57.2	58.9													
8	59.4	58.6	58.4	58.0	59.1	58.6	58.6	58.9	59.3	58.5	58.6	60.0	60.9	59.9	59.5	59.7	49.1	56.8	58.6	56.2	53.9	54.2	54.4	56.0	57.7													
9	57.2	58.6	57.2	57.4	55.0	55.5	56.0	58.2	59.0	59.9	60.3	60.6	60.6	60.6	60.0	59.4	59.6	60.3	58.8	57.7	58.6	58.5	57.8	57.9	58.6													
10 q	58.0	57.8	57.8	57.4	56.7	57.8	57.6	58.0	59.7	60.1	60.5	61.4	60.8	59.9	59.0	57.9	57.8	58.0	58.3	57.1	57.6	55.3	56.7	57.8	58.3													
11	57.4	57.8	58.0	57.5	57.8	58.8	57.9	58.0	58.5	59.2	59.6	61.0	61.5	62.7	62.8	62.3	61.5	56.9	57.5	58.3	49.3	53.4	58.2	58.4	58.5													
12	59.5	57.2	56.2	56.3	57.3	56.6	56.4	57.2	58.2	57.2	59.3	60.3	60.5	60.5	60.8	59.8	60.1	60.8	61.0	59.5	58.6	57.4	56.3	56.1	58.5													
13	56.3	62.0	55.2	53.7	56.6	55.9	57.7	59.2	58.3	59.2	61.8	62.2	62.1	62.1	62.0	60.1	59.7	60.9	59.7	56.5	56.3	58.3	58.2	57.8	58.8													
14	57.8	58.0	58.2	56.7	56.2	58.8	57.4	58.8	60.8	61.2	61.1	61.1	63.2	62.1	61.8	61.4	61.0	55.8	57.7	59.7	58.8	53.2	57.4	56.7	59.0													
15	55.3	51.4	53.3	55.0	54.7	56.2	55.7	57.1	58.3	58.5	59.0	60.3	61.5	60.9	60.6	59.8	59.3	59.3	59.4	59.1	58.7	58.5	58.3	58.1	57.8													
16	58.1	58.3	58.4	58.5	58.5	58.5	58.3	58.2	58.4	59.2	60.6	60.6	62.1	62.6	63.1	60.5	59.9	59.8	57.4	52.9	58.8	58.5	58.5	56.7	59.0													
17	54.3	54.2	57.8	54.6	55.0	56.8	57.5	57.7	58.2	58.1	58.2	60.0	61.3	60.4	59.9	59.6	59.1	59.1	59.4	59.1	59.1	58.2	57.6	55.4	57.9													
18	57.2	57.1	56.3	58.1	55.2	53.9	56.0	57.4	58.1	58.0	58.3	59.5	61.3	61.7	61.3	60.6	59.9	59.8	60.1	59.1	61.3	58.5	54.7	58.8	58.4													
19 q	56.4	58.5	56.9	56.4	57.1	56.6	58.1	58.2	58.1	58.7	59.7	60.8	62.2	62.8	61.8	59.2	59.3	59.3	59.3	59.0	58.3	57.9	56.2	57.7	58.7													
20	58.6	58.8	59.2	60.2	57.7	56.1	56.4	56.8	57.8	58.7	59.4	60.3	62.1	63.3	63.2	62.5	59.4	59.8	58.4	52.5	57.7	58.0	57.4	56.9	58.8													
21	58.7	53.7	52.5	53.9	58.9	54.0	55.6	57.1	57.1	57.8	58.6	59.8	61.3	63.2	62.4	60.5	60.3	60.2	59.1	57.3	56.5	58.4	58.0	56.7	58.0													
22 d	55.1	55.8	55.6	56.5	51.9	53.2	55.7	57.4	58.5	59.5	60.4	62.0	63.9	62.4	61.2	59.5	57.7	58.4	58.7	57.1	54.6	56.9	57.1	57.7	57.8													
23 d	58.1	60.2	61.6	58.5	57.2	56.6	57.6	59.0	59.5	59.8	61.2	63.9	64.9	65.8	61.9	65.3	61.4	53.6	53.2	49.8	55.7	57.8	57.7	56.5	59.0													
24	56.4	56.8	55.3	55.1	57.1	58.3	58.1	58.7	59.2	59.5	59.8	60.2	61.3	63.4	63.1	63.1	63.4	62.1	60.7	56.8	55.4	56.9	56.9	57.0	58.9													
25	59.6	58.7	59.3	55.4	56.4	53.1	55.9	57.1	57.8	57.5	58.6	61.7	64.3	63.5	64.6	63.9	60.3	61.9	61.1	59.3	58.8	58.5	56.8	55.4	59.3													
26	55.1	55.8	55.0	55.4	55.3	55.3	57.4	57.4	57.5	58.6	59.5	61.4	62.7	62.6	62.9	61.2	59.5	59.0	58.4	57.5	58.3	57.7	58.0	57.8	58.3													
27 q	57.7	57.8	58.0	58.1	58.4	58.2	57.6	57.4	56.9	57.2	58.2	60.0	60.1	62.5	62.3	60.3	59.5	59.5	57.3	57.3	59.0	58.9	58.5	58.6	58.6													
28 d	56.7	52.9	57.2	61.4	63.0	48.7	54.0	55.1	56.2	58.1	61.1	64.4	65.6	65.8	62.6	64.4	62.1	60.0	58.8	58.0	58.6	57.6	57.9	57.6	59.1													
Mean	57.1	57.2	57.0	57.1	57.3	56.6	57.3	58.0	58.6	59.0	59.9	61.2	62.1	62.4	61.9	61.2	60.2	59.6	58.8	57.6	57.4	57.1	57.0	56.8	58.7													

TERRESTRIAL MAGNETIC FORCE: VERTICAL COMPONENT
Mean values for periods of sixty minutes ending at exact hours, G.M.T.

67

99 ESKDALEMUIR (Z)												44,000γ (0.44 C.G.S. unit) +												FEBRUARY 1955											
	Hour G.M.T.																																		
	0-1	1-2	2-3	3-4	4-5	5-6	6-7	7-8	8-9	9-10	10-11	11-12	12-13	13-14	14-15	15-16	16-17	17-18	18-19	19-20	20-21	21-22	22-23	23-24	Mean										
	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ										
1 q	1234	1236	1237	1238	1238	1238	1239	1238	1237	1237	1237	1238	1238	1235	1234	1237	1237	1238	1239	1240	1241	1241	1243	1239	1238										
2 q	1238	1238	1238	1238	1239	1238	1238	1238	1238	1236	1233	1233	1237	1238	1240	1245	1249	1250	1249	1248	1249	1255	1253	1248	1242										
3	1243	1238	1238	1233	1230	1232	1233	1233	1232	1233	1233	1236	1237	1233	1233	1238	1239	1244	1243	1248	1250	1250	1249	1245	1238										
4 d	1244	1243	1240	1238	1234	1234	1233	1232	1229	1228	1234	1233	1232	1233	1235	1240	1247	1249	1251	1253	1267	1256	1240	1243	1240										
5 d	1243	1230	1232	1238	1239	1238	1237	1233	1233	1233	1233	1233	1238	1244	1247	1250	1251	1251	1261	1262	1253	1245	1228	1233	1241										
6	1237	1238	1239	1239	1237	1232	1232	1232	1233	1233	1234	1235	1236	1234	1233	1239	1252	1252	1248	1245	1244	1250	1256	1256	1249	1241									
7	1228	1232	1232	1236	1232	1226	1233	1233	1232	1233	1233	1234	1234	1234	1240	1255	1255	1249	1248	1249	1251	1249	1244	1244	1239										
8	1240	1240	1242	1243	1239	1238	1238	1236	1233	1238	1238	1237	1237	1238	1239	1244	1249	1267	1260	1257	1256	1254	1234	1222	1234	1242									
9	1240	1243	1243	1243	1240	1240	1240	1235	1237	1236	1237	1241	1240	1240	1243	1244	1246	1249	1249	1260	1264	1257	1251	1250	1247	1245									
10 q	1244	1244	1245	1245	1245	1244	1241	1239	1238	1240	1243	1243	1244	1244	1245	1245	1247	1248	1249	1247	1247	1244	1244	1243	1244										
11	1244	1244	1244	1244	1244	1244	1243	1241	1240	1239	1240	1240	1239	1238	1242	1250	1259	1272	1275	1301	1297	1289	1272	1260	1254										
12	1246	1246	1251	1249	1246	1243	1243	1244	1244	1245	1244	1243	1243	1243	1248	1250	1251	1253	1262	1267	1266	1252	1240	1245	1249										
13	1248	1225	1214	1232	1236	1241	1243	1244	1244	1240	1237	1237	1238	1240	1244	1255	1260	1253	1252	1251	1249	1245	1245	1244	1242										
14	1245	1244	1241	1243	1243	1240	1238	1237	1236	1238	1239	1240	1238	1240	1241	1245	1251	1259	1256	1249	1251	1259	1250	1249	1245										
15	1243	1241	1246	1247	1243	1232	1228	1232	1237	1239	1239	1239	1238	1236	1239	1244	1244	1244	1244	1244	1245	1245	1245	1245	1241										
16	1244	1244	1243	1243	1243	1243	1242	1241	1240	1240	1239	1238	1233	1233	1240	1244	1246	1247	1252	1254	1251	1252	1252	1252	1245										
17	1244	1247	1240	1235	1238	1238	1239	1239	1239	1239	1238	1238	1233	1233	1232	1237	1243	1244	1244	1244	1245	1247	1248	1249	1245										
18	1244	1244	1244	1241	1233	1233	1233	1233	1236	1239	1238	1236	1233	1233	1233	1238	1242	1243	1245	1257	1270	1271	1266	1245	1243										
19 q	1245	1246	1248	1247	1244	1241	1239	1238	1239	1239	1238	1234	1233	1233	1233	1237	1241	1244	1244	1244	1245	1246	1246	1245	1242										
20	1244	1244	1243	1237	1234	1236	1236	1234	1233	1233	1233	1233	1233	1233	1236	1243	1248	1248	1249	1252	1255	1248	1245	1245	1246										
21	1236	1232	1237	1240	1234	1218	1226	1228	1234	1236	1234	1235	1238	1238	1241	1248	1256	1257	1253	1250	1251	1250	1248	1247	1248										
22 d	1243	1237	1233	1232	1222	1220	1226	1232	1234	1233	1236	1238	1238	1238	1243	1249	1251	1249	1246	1248	1249	1243	1241	1243	1239										
23 d	1244	1238	1228	1224	1232	1233	1232	1226	1228	1231	1233	1233	1233	1237	1247	1266	1263	1275	1285	1275	1275	1254	1233	1232	1238										
24	1237	1233	1234	1237	1238	1238	1239	1238	1237	1233	1233	1232	1232	1233	1238	1243	1248	1252	1255	1253	1251	1245	1244	1247	1246										
25	1236	1236	1232	1231	1227	1225	1229	1233	1234	1237	1238	1239	1238	1238	1240	1244	1252	1263	1260	1257	1257	1252	1251	1252	1243										
26	1249	1241	1245	1247	1233	1237	1238	1241	1243	1238	1237	1234	1233	1233	1238	1243	1248	1250	1253	1248	1247	1244	1244	1244	1243										
27 q	1245	1245	1245	1245	1245	1244	1244	1244	1246	1245	1245	1243	1238	1233	1233	1237	1245	1248	1249	1249	1247	1244	1244	1241	1244										
28 d	1233	1228	1226	1160	1172	1193	1225	1237	1244	1244	1243	1238	1233	1233	1236	1243	1248	1249	1252	1256	1254	1252	1251	1250	1239										
Mean	1241	1239	1239	1237	1235	1234	1236	1236	1237	1237	1237	1237	1237	1237	1239	1244	1248	1251	1252	1252	1254	1253	1249	1246	1245	1242									

DAILY EXTREMES OF TERRESTRIAL MAGNETIC ELEMENTS, MAGNETIC CHARACTER FIGURES AND TEMPERATURE IN MAGNET HOUSE

100 ESKDALEMUIR												FEBRUARY 1955				
TERRESTRIAL MAGNETIC ELEMENTS												3-hr. range indices K	Sum of K indices	Magnetic character of day (0-2)	Temperature in magnet house 200 +	
Horizontal force			Declination			Vertical force										
Maximum 16,000γ +	Minimum 16,000γ +	Range	Maximum 10° +	Minimum 10° +	Range	Maximum 44,000γ +	Minimum 44,000γ +	Range								
	h. m.	γ	γ	h. m.	γ	h. m.	γ	h. m.	γ							
1 q	13 36	679	656 22 50	23	13 38	62·8	54·9 23 42	7·9	22 52	1244	1233 00 10	11	0,0,0,1,2,1,1,2	7	0	84·5
2 q	07 19	679	637 15 27	42	13 30	63·1	54·8 21 18	8·3	21 49	1256	1233 10 51	23	1,0,1,1,2,1,2,2	10	0	84·5
3	00 49	684	645 03 00	39	16 10	63·6	48·7 00 44	14·9	20 56	1251	1229 04 00	22	3,2,2,1,1,1,1,3	14	0	84·5
4 d	08 46	690	589 21 44	101	11 45	67·5	38·8 20 14	28·7	20 13	1279	1228 09 20	51	1,2,2,3,3,3,4,4	22	1	84·5
5 d	22 01	704	618 23 05	86	15 09	64·1	49·1 18 50	15·0	18 50	1268	1224 22 51	44	3,1,2,2,2,2,3,4	19	1	84·5
6	24 00	686	618 15 31	68	14 55	65·9	51·8 21 40	14·1	21 43	1259	1230 08 22	29	2,2,2,2,3,3,3,3	20	1	84·5
7	00 00	686	616 14 25	70	13 10	64·3	53·0 00 46	11·3	15 22	1259	1224 00 21	35	3,3,2,2,3,2,2,1	18	1	84·5
8	21 52	714	617 16 19	97	12 22	61·9	40·3 20 57	21·6	16 40	1273	1217 22 16	56	2,1,1,2,1,4,3,4	18	1	84·5
9	09 05	682	627 19 31	55	18 04	61·9	53·9 04 48	8·0	18 58	1267	1234 07 30	33	1,2,3,2,2,2,2,1	15	0	84·5
10 q	22 00	678	649 02 58	29	11 27	61·7	54·4 14 48	7·3	20 03	1249	1237 09 52	12	1,0,2,1,1,1,2,2	10	0	84·5
11	14 00	682	575 21 02	107	19 15	67·0	40·1 20 37	26·9	19 45	1314	1238 13 50	76	1,0,1,0,2,4,5,4	17	1	84·5
12	21 36	722	625 19 50	97	14 18	63·2	52·7 21 27	10·5	19 52	1274	1238 00 53	36	3,2,2,1,2,2,3,4	19	1	84·5
13	20 17	680	631 15 43	49	10 47	63·3	53·8 20 13	9·5	16 15	1262	1203 02 00	59	3,2,1,2,2,3,3,0	16	0	84·5
14	07 41	683	625 17 28	58	12 37	64·0	47·7 21 21	16·3	17 57	1263	1234 08 05	29	1,2,2,1,2,3,2,4	17	1	84·4
15	00 42	678	629 01 34	49	12 30	61·7	50·0 01 14	11·7	00 01	1250	1227 06 05	23	3,2,2,2,3,1,0,0	10	0	84·4
16	23 51	684	633 18 42	51	14 25	63·6	51·0 19 35	12·6	18 51	1257	1237 11 28	20	0,0,1,2,3,1,3,3	13	0	84·2
17	23 15	690	645 01 12	45	12 21	62·5	51·1 00 52	11·4	22 50	1250	1232 13 11	18	3,2,1,2,2,1,0,2	13	0	84·2
18	04 30	679	627 20 48	52	23 38	63·1	52·5 04 57	10·6	21 08	1276	1231 07 10	45	1,3,2,1,1,1,3,3	15	0	84·2
19 q	14 15	681	641 00 07	40	13 27	63·1	54·5 00 16	8·6	03 14	1248	1232 13 20	16	2,1,2,1,2,1,1,1	11	0	84·2
20	13 00	683	650 15 58	33	13 00	64·4	49·9 19 30	14·5	19 08	1257	1232 09 56	25	1,3,1,1,2,2,3,1	14	0	84·2
21	07 25	700	633 04 30	67	13 31	64·3	49·9 05 48	14·4	16 10	1263	1217 05 29	46	3,3,2,2,2,2,2,1	17	1	84·2
22 d	21 44	704	618 11 29	86	12 27	64·5	47·2 04 30	17·3	16 45	1253	1218 05 10	35	3,4,2,3,2,3,3,3	23	1	84·0
23 d	20 51	734	601 18 57	133	13 48	70·2	46·7 19 10	23·5	17 07	1296	1221 03 18	75	2,2,2,3,3,4,5,3	24	1	84·0
24	20 05	696	644 14 50	52	12 57	65·5	51·8 20 01	13·7	17 45	1256	1231 01 53	25	3,2,2,2,3,1,3,2	18	0	84·1
25	00 16	692	637 11 40	55	15 00	65·3	50·9 05 17	14·4	16 30	1266	1222 05 02	44	3,3,2,2,2,3,1,2	18	1	84·0
26	04 18	684	638 01 11	46	14 43	63·2	52·1 04 57	11·1	17 05	1251	1231 04 28	20	3,3,1,2,1,1,2,1	14	0	84·0
27 q	23 37	698	650 11 25	48	13 55	64·1	53·9 24 00	10·2	18 47	1251	1232 13 48	19	0,0,1,1,1,1,2,2	8	0	84·1
28 d	00 14	716	599 02 36	117	14 00	71·0	44·6 05 29	26·4	14 59	1285	1150 03 38	135	5,5,3,3,4,3,0,1	24	1	84·1
Mean	- -	692	628 - -	64	- -	64·3	50·0 - -	14·3	- -	1263	1225 - -	38	-	-	0·46	84·3

TERRESTRIAL MAGNETIC FORCE: HORIZONTAL COMPONENT
Mean values for periods of sixty minutes ending at exact hours, G.M.T.

101 ESKDALEMUIR (H)		16,000γ (0.16 C.G.S. unit) +																				MARCH 1955				
	Hour G.M.T.	0-1	1-2	2-3	3-4	4-5	5-6	6-7	7-8	8-9	9-10	10-11	11-12	12-13	13-14	14-15	15-16	16-17	17-18	18-19	19-20	20-21	21-22	22-23	23-24	Mean
	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ
1 q	656	655	660	664	661	661	662	663	660	658	658	659	657	657	660	664	660	658	657	660	659	661	660	662	660	660
2 q	663	670	663	662	663	669	669	669	673	672	665	662	661	664	666	666	663	664	669	671	673	669	669	668	667	667
3 q	667	667	666	665	669	670	675	676	675	669	666	663	664	666	670	669	669	670	672	672	673	672	673	670	669	669
4 q	668	667	667	668	671	674	676	679	665	660	655	656	660	665	671	673	673	678	681	680	660	654	665	675	668	668
5	665	660	654	658	665	672	668	668	666	658	660	659	665	662	662	664	654	666	658	665	664	662	638	641	661	661
6	654	648	679	650	658	662	660	660	663	660	651	658	658	665	668	656	660	663	669	667	652	650	660	656	659	659
7 d	664	652	647	661	661	677	664	675	665	653	662	652	650	662	674	669	659	670	653	648	684	623	645	646	659	659
8	650	654	653	655	658	664	657	655	659	651	647	645	647	651	648	658	667	647	662	651	652	666	669	661	655	655
9 d	675	656	656	653	663	662	658	668	661	650	638	640	642	653	655	654	667	660	673	637	619	638	653	655	654	654
10	652	649	650	651	652	657	660	641	642	647	658	636	629	662	650	652	660	668	636	647	671	639	663	654	651	651
11	641	660	648	649	656	662	641	663	651	648	650	651	622	647	656	658	641	660	659	663	667	671	667	665	654	654
12	664	661	655	658	664	661	667	653	666	659	653	647	639	646	663	668	645	653	648	651	672	665	660	660	657	657
13	659	658	659	662	656	657	655	658	659	656	653	651	658	657	663	654	660	658	657	654	669	648	654	656	657	657
14	673	664	651	657	655	663	666	665	660	654	650	637	645	656	662	653	664	650	673	658	650	646	656	665	657	657
15	668	664	656	650	657	673	670	666	644	656	645	652	648	651	643	653	662	662	671	670	659	656	646	670	660	658
16	655	654	659	639	654	660	662	658	657	657	650	657	658	665	665	668	664	658	659	669	654	658	638	628	656	656
17	649	660	658	665	669	671	656	650	671	668	657	650	652	654	643	653	659	664	673	674	675	676	670	669	662	662
18	680	673	671	671	673	678	673	670	665	664	658	656	643	654	652	655	656	655	647	649	667	653	661	661	662	662
19	666	667	663	658	658	658	659	662	655	660	658	656	656	657	660	666	669	669	668	665	665	672	669	668	663	663
20	670	669	664	664	667	669	673	668	663	665	665	664	662	668	665	669	667	671	671	672	674	675	674	687	669	669
21	661	655	663	665	668	667	670	670	665	664	666	667	666	670	672	669	671	677	678	685	677	674	677	677	670	670
22 d	673	674	677	671	670	673	673	665	662	673	664	656	633	653	671	750	654	617	604	637	647	650	660	658	661	661
23	656	658	660	661	665	667	669	658	656	651	651	648	655	668	655	672	677	652	659	649	647	654	642	650	657	657
24	654	662	651	645	637	647	650	646	629	627	637	640	641	652	654	660	663	665	664	669	670	667	664	669	653	653
25	665	664	662	661	660	662	663	663	653	644	636	641	650	656	656	668	656	661	656	665	666	658	668	669	658	658
26	669	666	667	667	671	668	666	654	650	659	659	650	643	640	649	651	669	676	678	681	681	685	681	674	665	665
27	669	671	668	671	671	672	674	674	663	658	652	628	644	650	658	665	661	671	671	673	677	676	675	679	665	665
28	671	667	662	663	666	668	671	669	654	649	646	646	647	657	664	671	672	673	674	677	675	675	667	676	665	665
29 q	666	663	665	669	673	677	672	673	665	653	646	645	649	658	663	668	671	671	673	677	675	674	675	675	667	667
30 d	672	673	673	671	673	673	676	674	666	664	662	666	665	671	667	669	675	674	682	656	675	720	660	650	671	671
31 d	659	658	626	667	643	657	644	580	638	625	622	614	644	642	655	662	657	658	673	684	655	684	670	652	649	649
Mean	663	662	660	660	663	666	664	660	659	655	653	650	650	657	660	666	663	663	663	663	665	663	663	663	663	661

MAGNETIC DECLINATION (WEST)
Mean values for periods of sixty minutes ending at exact hours, G.M.T.

102 ESKDALEMUIR (D)												10° +												MARCH 1955																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																															
	Hour G.M.T.																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																						

TERRESTRIAL MAGNETIC FORCE: VERTICAL COMPONENT
Mean values for periods of sixty minutes ending at exact hours, G.M.T.

69

103 ESKDALEUIR (Z)

44,000γ (0.44 C.G.S. unit) +

MARCH 1955

	Hour G.M.T.	0-1	1-2	2-3	3-4	4-5	5-6	6-7	7-8	8-9	9-10	10-11	11-12	12-13	13-14	14-15	15-16	16-17	17-18	18-19	19-20	20-21	21-22	22-23	23-24	Mean
	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ
1 q	1249	1248	1247	1244	1245	1246	1245	1247	1247	1247	1247	1243	1238	1239	1244	1250	1252	1252	1251	1251	1251	1251	1250	1249	1246	1247
2 q	1243	1238	1238	1241	1243	1242	1242	1241	1241	1239	1240	1239	1238	1238	1238	1243	1248	1248	1246	1246	1245	1246	1246	1246	1246	1242
3 q	1245	1244	1244	1244	1243	1242	1240	1241	1243	1241	1238	1236	1237	1238	1240	1243	1246	1245	1244	1244	1245	1245	1245	1244	1242	1242
4 q	1244	1244	1244	1244	1243	1243	1242	1243	1243	1243	1239	1235	1234	1236	1238	1240	1241	1241	1241	1241	1243	1250	1255	1253	1247	1243
5	1241	1237	1239	1240	1238	1234	1234	1235	1237	1235	1232	1231	1230	1235	1240	1247	1248	1249	1250	1250	1249	1247	1239	1241	1240	1240
6	1243	1244	1228	1232	1238	1239	1239	1238	1237	1237	1238	1237	1236	1238	1243	1247	1249	1248	1247	1249	1260	1260	1256	1256	1243	1243
7 d	1247	1216	1228	1227	1230	1226	1223	1221	1221	1228	1232	1232	1232	1232	1234	1239	1246	1258	1281	1268	1264	1228	1237	1240	1247	1238
8	1248	1232	1229	1239	1239	1239	1233	1237	1237	1239	1238	1238	1238	1241	1248	1250	1253	1267	1269	1255	1250	1247	1235	1234	1243	1243
9 d	1232	1233	1239	1240	1237	1236	1233	1234	1238	1238	1235	1236	1239	1244	1252	1271	1272	1290	1323	1316	1322	1308	1278	1266	1259	1259
10	1261	1257	1253	1251	1250	1248	1245	1246	1247	1245	1240	1241	1247	1253	1272	1263	1256	1257	1271	1272	1264	1260	1252	1241	1254	1254
11	1235	1233	1240	1245	1248	1245	1245	1237	1237	1234	1232	1228	1237	1240	1244	1251	1267	1264	1251	1249	1249	1249	1245	1247	1244	1244
12	1248	1249	1246	1218	1216	1229	1232	1233	1232	1237	1236	1236	1241	1247	1251	1256	1267	1274	1272	1271	1264	1243	1249	1250	1246	1246
13	1249	1247	1245	1247	1248	1247	1246	1245	1243	1239	1238	1238	1238	1240	1249	1256	1260	1266	1265	1263	1262	1254	1251	1250	1249	1249
14	1227	1225	1236	1243	1245	1244	1245	1245	1245	1245	1244	1242	1240	1244	1250	1256	1262	1263	1267	1257	1262	1262	1254	1248	1248	1248
15	1239	1237	1235	1218	1211	1222	1227	1228	1222	1225	1227	1234	1236	1242	1249	1251	1251	1251	1251	1257	1265	1265	1249	1239	1239	1239
16	1244	1241	1232	1237	1234	1241	1244	1247	1248	1246	1244	1239	1238	1238	1241	1251	1260	1256	1256	1252	1249	1258	1252	1243	1234	1245
17	1222	1228	1238	1242	1244	1241	1238	1232	1221	1224	1229	1236	1239	1241	1251	1260	1256	1256	1252	1249	1248	1248	1249	1249	1249	1241
18	1246	1248	1247	1246	1245	1244	1244	1244	1244	1242	1236	1231	1237	1240	1243	1249	1266	1292	1273	1274	1265	1259	1256	1254	1251	1251
19	1249	1238	1240	1244	1245	1244	1245	1247	1247	1241	1234	1231	1232	1233	1238	1243	1248	1252	1255	1255	1252	1249	1247	1249	1249	1249
20	1246	1244	1242	1244	1244	1244	1244	1247	1247	1240	1233	1231	1232	1236	1241	1244	1248	1248	1247	1246	1246	1246	1248	1243	1243	1243
21	1233	1236	1239	1242	1242	1240	1240	1238	1237	1232	1227	1227	1229	1232	1239	1244	1248	1248	1245	1246	1249	1253	1241	1239	1240	1240
22 d	1244	1245	1246	1247	1245	1245	1245	1243	1237	1226	1225	1237	1260	1283	1330	1444	1370	1354	1333	1287	1270	1262	1256	1255	1275	1275
23	1256	1256	1256	1255	1253	1252	1252	1255	1252	1249	1247	1244	1241	1240	1249	1252	1262	1275	1287	1313	1313	1294	1264	1260	1262	1262
24	1256	1237	1217	1224	1233	1234	1243	1247	1248	1247	1243	1239	1241	1247	1252	1254	1255	1257	1256	1255	1252	1252	1254	1251	1246	1246
25	1252	1252	1253	1254	1253	1252	1252	1251	1249	1244	1243	1239	1238	1242	1249	1254	1263	1267	1268	1270	1262	1256	1251	1249	1253	1253
26	1249	1250	1251	1251	1250	1249	1244	1241	1234	1229	1224	1225	1237	1246	1262	1266	1261	1256	1252	1250	1250	1249	1250	1251	1247	1247
27	1252	1251	1251	1250	1249	1248	1248	1246	1245	1240	1237	1238	1233	1234	1240	1248	1250	1255	1255	1254	1252	1251	1250	1247	1247	1247
28	1245	1248	1250	1250	1249	1250	1250	1250	1250	1245	1240	1234	1233	1234	1240	1247	1251	1251	1249	1249	1248	1248	1250	1245	1246	1246
29 q	1244	1245	1245	1246	1246	1245	1247	1248	1246	1245	1241	1230	1225	1229	1238	1245	1249	1250	1249	1248	1247	1247	1246	1245	1244	1244
30 d	1245	1244	1244	1245	1245	1245	1245	1245	1244	1238	1232	1220	1216	1222	1234	1245	1249	1252	1257	1279	1264	1238	1224	1209	1241	1241
31 d	1211	1206	1149	1164	1202	1214	1224	1225	1211	1233	1243	1245	1245	1254	1267	1294	1298	1293	1283	1262	1255	1250	1229	1237	1237	1237
Mean	1243	1240	1238	1239	1241	1241	1241	1241	1240	1239	1237	1235	1237	1241	1249	1258	1260	1263	1262	1261	1258	1254	1248	1246	1246	1246

DAILY EXTREMES OF TERRESTRIAL MAGNETIC ELEMENTS, MAGNETIC CHARACTER FIGURES AND TEMPERATURE IN MAGNET HOUSE

104 ESKDALEUIR

MARCH 1955

	TERRESTRIAL MAGNETIC ELEMENTS												3-hr. range indices K	Sum of K indices	Magnetic character of day (0-2)	Temperature in magnet house 200 + °A.
	Horizontal force			Declination			Vertical force									
	Maximum 16,000γ +	Minimum 16,000γ +	Range	Maximum 10° +	Minimum 10° +	Range	Maximum 44,000γ +	Minimum 44,000γ +	Range							
	h. m. γ	γ h. m.	γ	h. m. γ	γ h. m.	γ	h. m. γ	γ h. m.	γ							
1 q	15 27 669	653 01 31	16	12 42 63.5	55.0 24 00	8.5	15 58 1253	1238 11 50	15	1,1,1,2,2,2,1,1	11	0	84.2	84.2		
2 q	01 02 681	659 00 22	22	13 41 61.8	55.2 00 00	6.6	16 42 1249	1237 01 59	12	2,1,2,2,2,1,1,0	11	0	84.2	84.2		
3 q	07 57 684	660 11 22	24	13 05 62.6	57.0 07 43	5.6	16 40 1247	1236 11 47	17	0,1,1,2,2,1,0,0	7	0	84.0	84.0		
4 q	23 38 686	645 21 35	41	13 32 63.0	52.4 24 00	10.6	21 40 1256	1233 11 56	23	0,1,0,2,2,0,2,3	9	0	84.0	84.0		
5	22 00 686	612 22 25	74	13 01 64.6	48.1 21 11	16.5	21 16 1256	1230 12 35	26	2,2,1,2,2,2,2,4	17	1	84.0	84.0		
6	02 16 704	634 20 53	70	13 26 65.9	52.9 01 57	13.0	20 45 1264	1223 02 41	41	3,2,2,2,2,1,3,2	17	1	84.0	84.0		
7 d	20 10 872	591 20 31	281	01 04 65.8	35.6 20 07	30.2	17 42 1292	1208 01 33	84	5,3,3,2,1,5,7,3	29	1	84.0	84.0		
8	22 26 685	623 17 42	62	14 39 64.4	38.3 18 00	26.1	18 10 1276	1222 01 50	54	3,2,2,2,2,5,4,3	23	1	84.0	84.0		
9 d	18 24 697	595 19 04	102	15 34 71.6	30.2 18 21	41.4	18 16 1362	1228 00 48	134	3,2,2,1,2,3,5,4	22	1	84.0	84.0		
10	20 22 689	617 11 56	72	13 41 66.2	47.2 20 17	19.0	14 25 1276	1237 10 55	39	2,2,3,3,3,2,3,3	21	1	84.0	84.0		
11	21 47 679	608 12 33	71	12 18 65.8	49.0 16 50	16.8	16 49 1273	1227 11 30	46	3,2,3,3,3,4,1,2	21	1	84.0	84.0		
12	20 55 719	622 16 34	97	03 10 67.1	52.5 16 49	14.6	17 10 1279	1213 03 47	66	3,4,3,2,2,3,4,4	25	1	84.0	84.0		
13	20 30 706	632 20 00	74	12 40 65.1	40.1 20 24	25.0	20 20 1271	1237 11 28	34	2,2,2,2,3,3,4,3	21	1	84.0	84.0		
14	18 18 692	610 17 56	82	00 21 67.1	40.1 18 10	27.0	18 01 1276	1219 00 45	57	4,2,1,2,2,4,4,3	22	1	84.0	84.0		
15	22 40 686	625 21 12	61	08 05 65.6	49.4 01 43	16.2	21 13 1270	1206 03 56	64	3,3,3,3,3,2,3,3	23	1	84.0	84.0		
16	15 56 675	617 23 12	58	12 30 62.7	43.8 21 11	18.9	17 19 1266	1227 24 00	39	3,3,1,2,2,2,4,3	20	1	83.9	83.9		
17	21 08 693	625 00 20	68	13 25 62.6	51.8 00 03	10.8	15 29 1262	1217 00 44	45	3,1,3,3,3,3,1,2	19	0	83.8	83.8		
18	20 24 717	609 16 52	108	13 47 65.6	40.6 17 12	25.0	17 20 1296	1229 11 37	67	2,1,2,2,3,5,4,3	22	1	83.8	83.8		
19	00 50 678	652 20 17	26	14 04 62.6	51.4 20 35	11.2	20 30 1256	1230 11 21	26	3,1,1,2,2,1,3,2	15	0	83.9	83.9		
20	23 26 701	657 13 24	44	13 40 64.4	46.6 24 00	17.8	23 02 1250	1230 11 30	20	1,1,1,2,2,1,1,3	12	0	83.8	83.8		
21	21 41 690	647 00 59	43	14 00 63.7	45.9 00 06	17.8	21 13 1259	1228 11 31	31	3,0,1,2,2,1,3,3	15	0	83.8	83.8		
22 d	15 30 909	582 18 02	327	15 34 81.4	44.2 18 05	37.2	15 38 1555	1221 09 56	334	2,1,2,3,5,7,4,2	26	2	83.8	83.8		
23	21 02 724	630 21 11	94	14 00 66.9	31.7 21 12	35.2	21 03 1337	1239 13 01	98	2,0,1,1,3,4,4,5	20	1	83.8	83.8		
24	01 27 676	616 09 28	60	14 24 65.4	49.1 04 04	16.3	17 44 1259	1216 02 33	43	3,3,2,3,2,1,1,1	16	0	83.8	83.8		
25	19 37 688	626 10 55	62	13 45 64.7	49.6 19 32	15.1	19 29 1273	1238 12 41	35	0,0,1,1,2,2,3,2	11	0	83.8	83.8		
26	21 53 693	631 14 02	62	14 00 70.2	56.1 23 45	14.1	15 04 1268	1222 10 52	46	1,1,3,3,2,2,1,3	16	0	83.8	83.8		
27	23 19 690	612 11 04	78	14 25 69.8	52.4 08 49	17.4	18 20 1257	1233 12 40	24	1,1,1,3,2,3,1,2	14	0	83.8	83.8		
28	23 03 683	637 11 17	46	13 25 64.1	52.8 23 55	11.3	16 41 1252	1232 12 00	20	1,1,1,1,1,1,1,2	9	0	83.8	83.8		
29 q	19 25 680	642 12 04	38	13 42 64.1	52.8 00 00	11.3	17 16 1251	1224 12 31	27	2,1,1,1,1,0,0,1	7	0	83.8	83.8		
30 d	21 30 805	624 22 50	181	14 34 67.7	30.7 21 15	37.0	19 40 1285	1198 23 34	87	1,0,1,3,3,2,4,6	20	1	83.8	83.8		
31 d	21 42 757	555 07 21	202	07 50 75.2	38.4 03 31	36.8	16 47 1302	1128 02 34	174	5,5,5,3,3,4,4,5	34	1	83.8	83.8		
Mean	- - 709	624 - -	85	- - 66.2	46.5 - -	19.7	- - 1281	1223 - -	59	-	-	0.58	83.9	83.9		

MAGNETIC DECLINATION (WEST)
Mean values for periods of sixty minutes ending at exact hours, G.M.T.

106		ESKDALEMUIR (D)												10° +												APRIL 1955											
		Hour G.M.T.																																			
		0-1	1-2	2-3	3-4	4-5	5-6	6-7	7-8	8-9	9-10	10-11	11-12	12-13	13-14	14-15	15-16	16-17	17-18	18-19	19-20	20-21	21-22	22-23	23-24	Mean											
1		59.5	58.9	58.5	56.9	53.7	55.9	56.2	55.4	55.6	56.6	58.9	62.8	62.7	61.8	59.9	58.7	57.5	57.2	56.7	57.1	56.7	46.4	46.6	50.7	56.7											
2		56.8	53.7	53.1	53.1	54.3	55.0	54.1	54.9	55.1	56.2	58.2	59.9	65.7	66.9	66.2	66.5	64.3	62.1	57.7	57.1	55.9	55.9	51.7	56.6	58.0											
3		56.8	55.9	55.2	55.2	56.3	54.9	54.9	54.8	53.4	55.6	57.9	61.4	64.5	66.1	67.4	66.3	62.5	61.7	59.1	58.1	56.6	58.5	58.1	57.2	58.7											
4		56.9	56.5	57.7	55.7	55.9	55.2	56.5	56.3	55.0	56.2	59.3	62.2	62.6	63.2	62.0	60.5	59.9	59.8	54.3	50.4	57.2	58.1	52.5	48.5	57.2											
5	d	45.6	54.5	57.8	55.8	54.9	53.8	55.8	55.2	54.5	55.7	57.2	60.7	63.1	65.8	63.8	62.7	62.1	61.4	59.0	53.6	55.4	55.6	56.1	56.0	57.3											
6		55.9	57.7	58.0	53.8	54.5	56.2	55.5	54.9	54.4	55.5	58.5	62.1	63.5	65.2	65.2	63.2	60.5	59.0	57.8	57.5	57.1	46.4	48.1	50.1	57.1											
7	d	59.6	60.5	54.9	60.2	53.9	54.2	53.6	53.9	53.7	56.7	58.4	61.4	63.2	65.6	63.7	62.6	60.8	59.5	55.0	51.6	54.1	54.5	56.3	58.7	57.8											
8		57.7	57.4	57.0	56.3	56.0	56.6	60.2	59.3	56.5	56.1	57.5	59.9	62.8	63.8	63.4	62.3	60.9	60.7	58.8	59.1	58.6	53.0	56.6	58.0	58.7											
9		57.4	57.1	57.6	56.3	56.3	56.7	56.7	55.9	55.4	55.0	56.5	58.9	61.1	61.8	61.2	60.0	59.5	58.9	58.5	58.5	58.6	58.1	51.6	52.9	57.5											
10		57.0	57.2	56.6	56.2	55.6	55.7	55.6	55.4	54.9	54.8	58.3	62.9	68.6	69.6	66.8	64.5	63.4	56.2	57.8	58.0	56.5	54.1	55.9	55.5	58.6											
11		56.7	56.7	55.7	56.7	57.8	55.0	55.0	55.5	56.1	57.6	59.0	61.3	62.6	64.1	63.0	62.1	61.0	60.5	59.8	59.4	59.5	58.3	57.6	57.2	58.7											
12		57.1	56.0	54.7	49.5	51.8	53.7	55.8	55.4	55.8	56.0	58.4	61.8	61.9	60.7	59.8	58.9	58.6	58.0	58.7	58.3	57.8	49.7	52.6	49.6	56.3											
13		51.0	53.3	50.9	46.5	50.4	54.5	54.3	55.1	55.4	56.4	58.7	60.8	63.2	63.6	61.8	60.5	60.7	60.2	59.5	59.4	59.5	58.8	57.0	59.0	57.1											
14		55.9	55.7	56.2	56.3	56.3	58.5	59.2	59.7	59.7	57.0	57.9	60.6	62.3	62.5	61.9	61.6	61.0	60.0	59.2	58.7	58.1	57.7	56.1	56.3	58.7											
15		57.3	56.8	57.5	56.5	56.3	56.5	56.5	55.1	54.8	55.0	56.7	59.1	61.9	63.3	63.5	62.9	61.0	60.0	59.1	59.1	59.0	58.4	57.4	57.1	58.3											
16	q	56.4	56.6	57.0	56.4	56.8	56.7	56.7	55.8	54.5	55.3	57.6	61.3	64.9	65.4	63.8	61.6	60.7	59.9	59.0	58.3	57.3	57.2	57.9	57.7	58.5											
17	q	57.3	57.4	56.7	55.9	55.7	55.3	54.6	55.3	55.6	56.4	58.7	62.1	64.0	63.4	61.8	61.0	60.4	59.6	58.9	59.5	59.1	58.3	58.0	57.6	58.4											
18	q	57.3	57.0	56.4	56.2	56.2	56.2	55.6	55.3	54.7	54.9	57.2	59.1	61.9	63.4	61.9	60.8	59.3	59.3	59.6	59.1	58.6	58.1	57.8	57.8	58.1											
19	q	57.4	56.9	56.2	55.5	56.2	56.2	55.4	54.7	54.6	55.9	57.8	60.4	62.5	62.8	61.6	60.3	59.8	59.9	59.8	58.6	58.5	58.4	58.0	57.5	58.1											
20		56.9	56.1	55.3	55.3	55.0	54.0	54.1	55.5	53.9	54.8	56.9	60.0	63.3	64.9	63.2	62.5	60.7	60.1	59.1	57.9	57.2	57.9	57.1	56.2	57.8											
21		56.3	56.0	56.4	56.1	55.0	55.8	54.5	54.0	54.9	54.9	56.7	60.5	63.9	65.9	63.8	62.3	61.6	60.7	59.5	58.2	57.8	57.1	58.0	56.6	58.2											
22		56.9	56.6	60.2	58.1	58.1	53.2	52.8	52.0	51.7	54.1	57.2	59.9	62.4	63.7	62.8	61.3	60.1	59.2	57.6	55.7	53.1	55.8	56.1	57.1	57.3											
23	q	57.1	56.9	56.5	56.2	55.8	55.3	54.6	53.9	54.0	54.8	56.3	58.8	61.3	62.5	61.2	59.5	58.8	58.1	57.4	56.9	57.1	57.6	57.5	57.2	57.3											
24		57.5	57.2	57.5	55.5	55.3	54.2	53.7	52.9	52.7	53.5	56.1	59.6	63.9	66.7	65.9	65.0	65.3	64.3	60.6	53.1	49.9	55.6	50.3	49.3	57.0											
25		51.1	53.3	53.1	54.5	55.7	54.3	54.1	56.0	54.1	56.2	58.9	61.4	64.2	64.4	63.7	60.8	60.7	61.1	57.6	56.8	50.3	51.0	52.7	53.6	56.7											
26		51.8	49.8	48.3	51.1	50.6	52.5	55.3	56.5	57.2	57.1	59.1	61.6	62.9	63.2	62.4	61.0	59.9	59.0	59.1	56.9	53.1	51.8	51.7	51.3	56.0											
27	d	46.8	53.1	54.7	51.1	51.3	54.9	53.6	54.9	55.8	56.3	57.2	59.2	61.2	62.6	61.8	61.7	63.4	65.9	66.0	57.6	30.7	39.2	51.3	39.7	54.6											
28	d	47.7	46.4	52.4	54.8	54.9	54.1	54.9	52.7	54.4	55.6	57.9	59.8	59.9	61.3	62.6	61.9	61.8	62.2	61.3	57.4	55.4	57.2	49.8	56.0	56.3											
29	d	58.9	52.6	51.3	53.6	52.7	52.7	54.1	53.7	52.7	56.2	56.8	59.9	61.7	62.5	60.0	59.9	60.8	58.0	53.7	58.4	54.7	47.6	49.9	51.8	55.6											
30		54.7	55.1	55.9	51.9	53.4	54.3	55.0	54.3	54.1	54.2	58.4	59.6	60.6	61.9	61.6	60.6	59.6	59.1	58.0	53.7	52.8	56.3	56.7	56.0	56.6											
Mean		55.5	55.6	55.6	54.9	54.9	55.1	55.3	55.1	54.8	55.7	57.8	60.6	62.9	64.0	62.9	61.8	60.9	60.1	58.6	57.1	55.5	54.7	54.6	54.4	57.4											

TERRESTRIAL MAGNETIC FORCE: VERTICAL COMPONENT
Mean values for periods of sixty minutes ending at exact hours, G.M.T.

71

107 ESKDALEUIR (Z)		44,000γ (0.44 C.G.S. unit) +																				APRIL 1955						
	Hour G.M.T.	0-1	1-2	2-3	3-4	4-5	5-6	6-7	7-8	8-9	9-10	10-11	11-12	12-13	13-14	14-15	15-16	16-17	17-18	18-19	19-20	20-21	21-22	22-23	23-24	Mean		
		γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ		
1		1233	1229	1238	1242	1244	1243	1241	1249	1249	1246	1243	1242	1244	1247	1257	1260	1258	1259	1260	1256	1256	1244	1229	1234	1246		
2		1232	1239	1247	1250	1245	1241	1243	1240	1238	1237	1235	1232	1234	1247	1267	1283	1297	1309	1312	1293	1275	1254	1240	1245	1256		
3		1249	1250	1243	1244	1250	1249	1249	1247	1248	1243	1240	1235	1237	1243	1260	1271	1278	1278	1275	1272	1266	1258	1247	1248	1253		
4		1251	1252	1251	1250	1249	1248	1249	1250	1247	1242	1241	1238	1239	1248	1251	1249	1249	1263	1283	1285	1267	1262	1254	1232	1252		
5	d	1232	1224	1215	1232	1241	1243	1245	1244	1244	1241	1238	1234	1237	1246	1261	1259	1263	1266	1267	1260	1254	1256	1253	1250	1246		
6		1241	1237	1221	1226	1233	1240	1241	1247	1247	1242	1240	1237	1235	1238	1244	1252	1255	1252	1251	1251	1251	1250	1237	1222	1241		
7	d	1207	1205	1212	1203	1217	1228	1237	1243	1245	1243	1245	1243	1239	1242	1249	1252	1254	1255	1257	1255	1251	1251	1248	1234	1238		
8		1237	1246	1250	1250	1249	1248	1240	1240	1237	1240	1240	1237	1237	1238	1244	1250	1255	1256	1262	1262	1258	1255	1253	1249	1250		
9		1250	1250	1249	1247	1247	1247	1246	1248	1249	1245	1238	1233	1232	1241	1247	1249	1250	1251	1250	1248	1246	1249	1245	1244	1246		
10		1245	1248	1250	1250	1249	1247	1247	1247	1245	1240	1237	1233	1234	1242	1253	1259	1263	1272	1264	1257	1257	1257	1253	1246	1250		
11		1238	1246	1249	1249	1237	1237	1242	1242	1240	1237	1237	1236	1235	1244	1249	1253	1255	1256	1256	1255	1251	1250	1250	1249	1246		
12		1250	1248	1236	1229	1235	1236	1235	1239	1243	1245	1239	1238	1237	1243	1247	1251	1253	1255	1252	1256	1260	1267	1255	1248	1246		
13		1244	1231	1213	1220	1232	1238	1240	1239	1238	1233	1232	1229	1229	1235	1241	1245	1247	1251	1253	1254	1256	1258	1261	1238	1240		
14		1240	1249	1250	1250	1247	1243	1237	1233	1234	1238	1237	1232	1234	1239	1243	1244	1246	1249	1250	1250	1250	1250	1250	1249	1243		
15		1248	1245	1244	1244	1244	1244	1245	1244	1241	1239	1236	1232	1227	1232	1239	1241	1246	1250	1250	1250	1250	1250	1250	1248	1243		
16	q	1247	1248	1247	1247	1245	1245	1246	1246	1244	1238	1233	1231	1233	1237	1238	1239	1244	1247	1248	1251	1253	1252	1248	1248	1244		
17	q	1247	1246	1245	1245	1244	1244	1245	1243	1238	1239	1238	1235	1234	1239	1245	1250	1251	1251	1249	1248	1248	1249	1249	1249	1245		
18	q	1248	1248	1248	1248	1246	1247	1248	1247	1244	1241	1237	1234	1233	1235	1243	1249	1255	1255	1253	1250	1249	1249	1248	1247	1246		
19	q	1245	1245	1248	1248	1244	1239	1239	1240	1238	1237	1229	1222	1223	1231	1240	1240	1240	1243	1244	1244	1244	1244	1244	1244	1240		
20		1244	1245	1244	1244	1244	1244	1245	1244	1244	1238	1231	1227	1229	1237	1244	1249	1256	1256	1261	1261	1256	1252	1251	1251	1246		
21		1249	1247	1248	1247	1247	1243	1240	1238	1238	1238	1233	1226	1228	1238	1247	1247	1251	1256	1259	1257	1256	1252	1247	1244	1245		
22		1244	1245	1243	1236	1229	1228	1235	1238	1238	1235	1234	1233	1233	1234	1241	1244	1245	1248	1250	1249	1248	1244	1244	1245	1240		
23	q	1247	1247	1247	1248	1247	1246	1245	1244	1243	1236	1229	1223	1225	1231	1238	1241	1243	1244	1245	1245	1244	1244	1244	1245	1241		
24		1245	1244	1244	1244	1244	1243	1239	1240	1240	1234	1231	1224	1225	1237	1240	1244	1252	1268	1310	1312	1280	1233	1217	1218	1246		
25		1217	1234	1244	1248	1244	1248	1251	1248	1244	1240	1234	1234	1233	1238	1249	1256	1260	1260	1270	1256	1253	1252	1251	1248	1246		
26		1226	1215	1223	1234	1239	1238	1232	1227	1227	1228	1229	1233	1236	1240	1248	1250	1252	1256	1258	1267	1258	1249	1237	1206	1238		
27	d	1218	1221	1210	1226	1237	1233	1233	1234	1234	1234	1236	1233	1234	1243	1248	1248	1248	1260	1294	1309	1261	1171	1063	1114	1227		
28	d	1024	1113	1218	1218	1226	1233	1237	1248	1251	1252	1255	1259	1261	1256	1260	1262	1262	1271	1283	1291	1286	1219	1238	1228	1235		
29	d	1188	1187	1187	1225	1235	1244	1245	1250	1251	1249	1254	1252	1250	1260	1272	1267	1271	1282	1288	1275	1271	1242	1233	1237	1246		
30		1226	1207	1213	1234	1243	1244	1244	1245	1244	1243	1244	1251	1250	1249	1250	1253	1256	1256	1260	1267	1266	1260	1255	1234	1246		
Mean		1230	1233	1236	1239	1241	1242	1242	1243	1242	1240	1237	1235	1235	1241	1249	1252	1255	1259	1264	1263	1257	1247	1240	1237	1244		

DAILY EXTREMES OF TERRESTRIAL MAGNETIC ELEMENTS, MAGNETIC CHARACTER FIGURES AND TEMPERATURE IN MAGNET HOUSE

108 ESKDALEUIR		TERRESTRIAL MAGNETIC ELEMENTS												APRIL 1955			
		Horizontal force			Declination			Vertical force			3-hr. range indices K	Sum of K indices	Magnetic character of day (0-2)	Temperature in magnet house 200 +			
		Maximum 16,000γ +	Minimum 16,000γ +	Range	Maximum 10° +	Minimum 10° +	Range	Maximum 44,000γ +	Minimum 44,000γ +	Range							
	h. m.	γ	γ h. m.	γ	h. m.	γ	h. m.	γ	h. m.	γ	γ h. m.	γ				°A.	
1	21 26	759	618 11 21	141	12 14	63.9	31.1 21 20	32.8	18 46	1260	1222 22 03	38	2,2,1,2,2,1,1,5	16	1	83.8	
2	22 00	688	626 18 44	62	13 36	69.4	48.3 21 49	21.1	18 10	1315	1229 00 17	86	2,2,2,2,3,3,3,4	21	1	83.3	
3	21 40	683	620 10 34	63	14 33	68.5	52.9 08 38	15.6	16 28	1281	1234 11 50	47	2,2,2,3,3,3,2,2	19	1	83.3	
4	23 27	713	624 10 26	89	13 00	64.6	44.8 19 00	19.8	19 17	1293	1225 23 43	68	1,1,1,3,3,4,4,4	21	1	83.8	
5 d	19 39	741	605 13 58	136	13 54	68.0	43.7 00 36	24.3	19 00	1270	1209 02 04	61	4,2,2,3,4,2,4,2	23	1	83.8	
6	21 28	709	614 11 46	95	14 30	67.2	43.6 21 24	23.6	16 09	1256	1208 24 00	48	3,3,2,3,3,3,1,4	22	1	83.8	
7 d	18 58	706	599 10 25	107	01 06	66.5	49.0 18 51	17.5	18 49	1260	1198 03 12	62	4,3,3,3,3,2,3,3	24	1	83.8	
8	00 15	685	636 11 37	49	13 00	64.5	50.8 21 20	13.7	18 21	1265	1233 00 09	32	2,2,2,1,2,2,2,3	16	0	83.8	
9	22 15	729	646 10 11	83	13 29	62.0	49.5 22 42	12.5	17 47	1251	1230 12 11	21	1,2,1,1,1,1,1,4	12	0	83.8	
10	14 36	685	620 13 04	65	12 50	71.2	53.1 21 14	18.1	17 33	1275	1233 12 27	42	1,0,0,3,3,3,2,2	14	1	83.8	
11	15 38	694	651 03 32	43	13 31	65.7	53.8 06 16	11.9	17 55	1258	1234 12 05	24	2,2,2,1,3,3,2,2	17	0	83.8	
12	18 44	696	629 21 47	67	12 28	62.5	47.5 21 43	15.0	21 33	1268	1228 03 10	40	2,3,2,2,3,2,3,3	20	1	83.8	
13	23 13	718	636 01 50	82	12 56	64.3	45.4 03 52	18.9	22 50	1262	1209 02 47	53	3,3,2,2,2,3,2,3	20	1	83.8	
14	06 44	684	636 11 51	48	12 48	63.1	54.5 01 42	8.6	01 48	1251	1231 11 40	20	2,2,1,2,3,1,1,1	13	0	83.8	
15	18 35	693	639 16 24	54	13 34	64.4	54.4 07 29	10.0	19 30	1251	1226 12 42	25	1,1,1,1,3,3,1,1	12	0	83.9	
16 q	18 40	699	653 11 30	46	13 02	65.8	54.3 08 46	11.5	20 50	1256	1230 11 48	26	0,1,1,1,2,1,2,2	10	0	84.0	
17 q	19 56	696	639 12 05	57	12 50	64.5	54.1 06 34	10.4	16 24	1252	1234 12 30	18	1,1,1,1,2,2,2,1	11	0	84.1	
18 q	16 31	696	656 10 40	40	13 24	63.8	54.1 09 10	9.7	16 47	1256	1232 12 26	24	0,0,0,1,2,2,1,0	6	0	84.0	
19 q	22 20	698	653 11 46	45	13 15	63.5	54.5 08 16	9.0	03 39	1249	1221 12 10	28	1,1,1,0,1,1,1,1	17	0	84.0	
20	00 00	696	647 10 14	49	13 30	65.2	51.4 06 00	13.8	19 00	1263	1226 11 36	37	2,2,2,2,2,2,2,1	15	0	84.0	
21	16 51	709	637 14 04	72	13 36	67.2	53.5 07 39	13.7	18 50	1260	1226 11 32	34	2,1,2,2,3,3,2,2	17	0	84.2	
22	20 12	714	635 11 08	79	13 50	64.1	50.5 08 09	13.6	19 00	1251	1226 05 14	25	2,3,1,2,1,2,3,1	15	0	84.2	
23 q	18 43	687	636 11 13	51	12 54	62.8	53.6 07 12	9.2	03 25	1248	1222 11 43	26	0,0,0,1,2,2,0,0	5	0	84.2	
24	17 20	735	614 21 24	121	13 09	68.5	38.7 23 39	29.8	19 00	1322	1210 23 56	112	1,1,1,1,4,4,4,4	20	1	84.2	
25	19 16	730	631 10 55	99	12 35	65.0	48.0 20 17	17.0	18 27	1272	1210 00 00	62	2,2,1,1,2,3,4,2	17	1	84.4	
26	20 25	725	615 11 12	110	13 19	63.8	44.1 02 15	19.7	20 00	1270	1199 23 18	71	4,2,3,3,2,2,4,4	24	1	84.4	
27 d	16 28	768	235 22 08	533	18 53	69.8	26.0 20 13	43.8	19 42	1347	890 22 09	457	3,2,2,0,1,4,6,7	25	2	84.4	
28 d	20 44	728	469 00 04	259	21 07	72.7	25.7 00 04	47.0	20 03	1303	898 00 50	405	6,3,3,3,3,4,4,5	31	2	84.4	
29 d	20 46	750	574 10 15	176	13 19	63.5	40.3 21 51	23.2	18 03	1296	1161 00 55	135	4,3,2,3,3,3,4,4	26	1	84.4	
30	23 05	695	610 00 31	85	13 49	62.5	50.6 03 30	11.9	19 30	1270	1203 01 17	67	4,3,2,2,2,3,3,3	22	1	84.4	
Mean	- -	710	610 - -	100	- -	65.6	47.4 - -	18.2	- -	1271	1198 - -	73	-	-	0.63	83.9	

TERRESTRIAL MAGNETIC FORCE: HORIZONTAL COMPONENT
Mean values for periods of sixty minutes ending at exact hours, G.M.T.

109 ESKDALEMUIR (H)			16,000γ (0.16 C.G.S. unit) +																				MAY 1955				
	Hour	G.M.T.	0-1	1-2	2-3	3-4	4-5	5-6	6-7	7-8	8-9	9-10	10-11	11-12	12-13	13-14	14-15	15-16	16-17	17-18	18-19	19-20	20-21	21-22	22-23	23-24	Mean
			γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ
1			664	662	655	655	649	656	655	651	647	641	637	642	651	658	662	658	659	667	672	679	671	679	665	671	659
2			670	665	660	663	663	663	661	658	655	652	653	654	662	659	668	654	666	676	679	687	680	675	678	679	666
3			674	672	671	669	667	667	663	658	655	659	661	663	667	670	674	695	680	689	679	682	684	688	687	683	673
4			679	679	674	670	667	662	658	657	653	647	650	664	684	682	680	665	668	681	682	679	669	671	660	672	669
5			669	665	666	673	677	671	670	671	662	653	641	641	653	677	683	674	666	684	699	699	700	704	702	703	675
6 d			680	677	670	675	676	664	663	669	660	632	607	626	605	611	609	658	676	666	682	705	682	682	673	655	674
7 d			656	679	640	656	622	631	650	636	608	594	630	638	645	652	664	666	675	682	690	698	685	673	670	667	654
8 d			662	648	668	682	640	650	643	642	624	619	627	640	628	647	672	695	661	706	693	685	674	648	642	677	657
9			662	663	659	662	659	654	658	647	642	630	633	644	656	662	678	667	694	694	694	680	678	677	677	675	664
10			678	666	670	653	668	668	658	655	655	647	634	622	646	656	661	669	673	691	684	695	676	679	661	667	664
11			667	670	669	668	669	670	666	658	655	647	637	635	639	644	656	663	675	686	684	685	686	682	675	679	665
12			671	670	671	668	661	663	656	651	643	643	648	645	652	656	667	675	676	692	689	687	681	692	680	669	667
13			667	678	663	668	671	671	664	655	652	646	652	661	663	673	676	685	703	695	694	691	701	694	693	687	675
14			691	687	676	674	676	671	672	674	661	654	631	628	650	652	668	660	687	695	682	689	681	676	677	675	670
15			674	669	667	665	668	666	663	664	663	655	648	642	642	646	657	669	676	683	682	687	689	692	698	703	669
16			714	704	688	646	671	674	679	671	660	650	634	632	635	648	662	667	676	682	683	680	678	676	674	674	669
17 q			677	674	674	667	668	669	662	654	648	642	639	641	650	656	667	679	688	691	687	685	683	684	688	694	669
18			692	681	679	675	678	677	668	662	658	652	647	648	655	661	665	676	676	687	686	686	692	692	691	690	674
19 q			686	685	682	681	680	675	665	658	650	647	647	654	663	670	673	677	681	688	689	689	688	685	686	685	674
20			682	681	677	678	680	684	685	673	666	655	655	653	663	665	676	676	687	695	702	694	688	686	686	684	678
21 q			680	679	680	683	684	684	681	673	663	652	650	654	663	680	681	681	685	694	694	688	688	686	688	684	678
22			682	682	682	682	686	683	680	672	662	652	645	653	660	668	676	678	684	668	669	672	668	686	687	686	673
23 q			684	686	684	683	683	680	673	666	663	659	660	664	670	678	676	693	691	698	699	699	697	693	689	690	682
24 q			686	685	683	683	683	682	677	670	664	663	656	661	660	670	686	680	683	680	693	692	691	688	688	686	679
25 d			686	681	680	683	686	687	683	672	659	651	649	652	656	660	688	706	730	742	737	708	689	662	583	569	675
26 d			596	628	622	658	659	622	611	612	591	575	626	644	650	644	637	635	662	676	679	677	667	666	668	667	641
27			667	656	657	663	664	665	662	654	644	635	630	634	654	647	680	730	678	690	711	708	679	657	653	646	665
28			658	643	654	653	653	637	632	656	635	624	629	627	636	655	668	681	678	671	680	682	674	675	674	686	657
29			668	666	663	661	656	652	650	645	635	634	639	641	656	664	667	673	658	680	678	678	682	679	673	669	661
30			665	667	666	666	663	658	652	645	646	651	655	656	658	663	672	668	672	684	695	693	682	676	679	677	667
31			683	673	675	671	672	662	655	651	649	645	648	651	660	662	670	667	680	684	691	687	686	683	684	690	670
Mean			673	672	669	669	668	665	662	657	649	642	642	645	653	659	668	675	679	687	690	688	683	680	675	676	668

MAGNETIC DECLINATION (WEST)
Mean values for periods of sixty minutes ending at exact hours, G.M.T.

110 ESKDALEMUIR (D)			10° +																				MAY 1955		
	Hour G.M.T.		2-3	3-4	4-5	5-6	6-7	7-8	8-9	9-10	10-11	11-12	12-13	13-14	14-15	15-16	16-17	17-18	18-19	19-20	20-21	21-22	22-23	23-24	Mean
	0-1	1-2																							
1	56.4	54.4	55.0	55.0	55.1	53.9	52.8	52.6	52.9	54.7	56.2	58.5	60.1	60.0	59.0	58.0	57.3	57.7	57.4	57.4	55.0	55.6	56.3	56.2	
2	55.7	55.6	55.4	54.9	54.6	54.1	52.9	52.1	52.9	55.0	57.7	60.9	62.7	62.1	61.3	59.0	59.0	58.2	58.3	57.6	56.2	55.3	54.4	56.9	
3	55.8	57.6	56.7	53.9	52.7	52.8	52.4	53.1	54.1	56.1	57.7	59.5	60.8	61.1	60.8	61.3	61.0	61.7	60.9	60.6	58.9	58.1	57.6	56.7	
4	56.6	56.3	55.7	55.6	55.1	54.9	55.0	55.0	55.3	56.0	58.4	61.9	63.8	63.0	61.8	60.3	58.7	58.8	58.2	57.2	55.7	55.8	54.3	56.0	
5	54.3	55.3	55.1	55.4	53.1	53.1	53.1	54.7	53.1	54.7	57.1	59.6	61.4	64.4	64.8	62.5	60.8	59.2	59.3	59.2	59.4	58.9	57.8	57.9	
6 d	53.3	50.5	51.9	53.2	52.1	50.5	51.9	52.1	51.2	54.7	57.2	63.2	64.7	66.7	67.0	63.9	62.0	59.7	59.8	56.9	58.4	54.2	55.2	45.1	
7 d	48.1	49.0	46.4	50.5	52.0	57.6	54.0	50.8	51.4	54.5	58.9	62.4	63.8	64.0	64.2	62.0	61.3	60.6	59.4	51.4	55.4	56.6	56.2	48.2	
8 d	45.9	57.0	56.2	55.7	54.5	55.3	53.3	53.2	52.2	54.0	57.2	61.3	63.1	62.3	64.4	65.5	62.4	59.0	53.4	55.3	50.8	51.8	55.9	56.7	
9	55.7	54.8	56.0	57.3	54.9	55.0	54.0	52.6	52.6	54.7	58.2	60.8	61.8	62.1	62.1	60.9	60.8	59.6	56.5	58.4	57.9	57.0	55.8	53.6	
10	56.4	54.6	56.7	57.4	56.1	55.0	54.0	52.8	52.7	53.5	56.2	58.9	60.9	61.7	61.0	60.0	59.0	58.5	58.1	57.7	56.4	54.3	54.6	55.9	
11	55.5	55.9	55.9	56.2	54.9	53.2	53.0	52.2	52.5	53.5	55.5	58.1	59.7	60.5	60.9	60.9	59.9	59.1	57.7	57.6	57.5	56.4	56.1	55.1	
12	55.9	55.5	55.7	54.5	54.9	55.3	52.5	51.2	51.4	52.6	55.5	59.1	61.3	62.5	63.3	63.0	62.1	61.6	59.8	58.1	55.4	54.1	53.4	52.8	
13	54.6	52.8	52.4	53.9	53.9	52.9	53.1	54.5	54.1	55.7	57.7	61.4	64.8	66.2	64.9	63.3	63.1	62.6	61.2	60.9	59.1	56.9	54.1	56.3	
14	57.7	56.1	54.5	54.7	55.7	56.8	57.0	57.2	54.6	55.3	59.1	61.7	62.8	63.3	63.3	61.3	61.1	60.4	58.4	57.6	56.6	57.6	56.2	56.6	
15	57.2	57.0	57.6	58.7	57.3	55.1	55.1	54.1	52.6	53.1	55.1	57.8	59.5	60.1	60.6	60.0	59.5	59.0	57.7	57.7	58.1	58.2	58.0	58.3	
16	58.2	51.1	50.5	59.4	55.4	53.4	52.3	51.7	52.3	54.4	57.5	59.4	61.4	62.4	61.9	61.4	60.3	58.2	56.9	57.2	57.3	57.2	57.2	57.5	
17 q	56.8	57.1	56.7	56.2	55.6	54.1	53.1	52.0	51.9	52.0	54.6	57.5	59.8	61.3	61.0	60.8	60.0	58.9	58.5	58.0	57.7	58.0	57.6	57.0	
18	56.4	55.7	56.4	56.4	55.6	54.2	52.6	50.7	50.5	52.3	54.7	57.7	60.2	61.3	60.6	59.9	59.1	59.0	58.4	58.1	58.4	58.2	57.9	57.6	
19 q	57.2	57.2	56.4	55.7	54.4	53.0	52.3	52.1	53.6	55.9	58.3	61.7	63.3	62.9	61.4	59.5	58.3	58.1	58.2	58.1	57.5	58.2	58.2	58.0	
20	57.2	57.9	57.6	57.3	56.0	54.5	52.6	51.7	52.8	55.8	58.8	58.5	60.3	61.7	61.8	60.8	59.7	58.1	58.0	57.9	58.1	58.2	57.9	57.5	
21 q	57.2	57.0	56.9	57.2	54.9	53.5	53.0	52.9	53.1	54.5	57.3	60.2	62.1	62.9	62.2	61.1	59.5	58.1	57.6	57.4	57.3	57.5	57.2	57.2	
22	57.3	56.8	57.7	56.0	54.8	52.1	50.5	50.5	51.7	53.2	56.0	58.7	60.5	61.2	61.7	61.7	60.7	59.3	58.3	58.0	58.2	57.8	57.5	57.1	
23 q	57.2	57.3	56.3	55.5	54.5	53.1	52.0	51.2	51.5	53.3	56.6	59.7	61.6	62.2	61.0	60.8	60.0	59.3	59.0	58.5	58.2	57.5	57.2	56.8	
24 q	56.5	55.9	55.4	55.5	54.5	53.5	52.8	52.6	52.6	53.5	55.9	59.9	62.2	63.9	64.1	62.7	61.3	60.1	59.9	58.7	57.7	57.8	57.7	56.6	
25 d	56.6	56.5	56.7	55.5	54.4	53.5	52.5	51.6	51.2	51.9	54.7	57.3	59.8	61.2	63.5	66.7	67.5	68.2	66.1	59.2	52.4	45.4	40.3	37.3	
26 d	41.4	41.9	53.2	52.4	49.6	50.4	51.0	51.1	50.9	55.8	57.4	59.7	61.3	60.9	61.0	60.8	59.8	59.7	59.0	57.5	56.9	57.2	56.6	57.6	
27	54.9	54.6	55.3	55.7	53.1	52.2	51.0	51.2	50.9	51.7	54.1	57.2	61.3	63.9	65.1	63.6	62.7	63.5	60.3	54.1	55.8	52.6	55.8	54.6	
28	51.8	51.4	57.1	53.2	52.8	54.0	56.0	56.6	57.2	55.4	56.9	57.3	60.0	62.5	60.7	60.3	60.9	59.0	58.5	56.7	57.8	58.5	57.1	54.7	
29	56.8	55.4	54.3	52.9	53.5	52.7	52.3	51.3	50.9	52.7	56.5	59.1	61.5	61.6	61.1	60.2	57.5	57.0	57.5	58.1	58.4	57.4	55.7	56.9	
30	57.0	56.5	56.3	55.4	54.6	53.3	52.1	52.4	54.1	55.3	57.1	59.5	61.6	62.1	61.7	60.8	58.7	57.7	58.9	58.5	58.2	57.9	56.6	56.6	
31	56.6	54.0	55.9	53.1	52.3	50.5	50.4	52.0	53.1	55.1	57.9	60.1	62.1	63.4	64.0	63.4	61.5	59.9	58.1	58.4	58.2	57.7	58.2	55.0	
Mean	55.1	54.8	55.3	55.3	54.3	53.7	52.9	52.6	52.6	54.2	56.8	59.6	61.6	62.4	62.3	61.5	60.5	59.8	58.9	57.6	57.3	56.4	55.8	55.1	

TERRESTRIAL MAGNETIC FORCE: VERTICAL COMPONENT
Mean values for periods of sixty minutes ending at exact hours, G.M.T.

73

111 ESKDALEUIR (Z)

44,000γ (0.44 C.G.S. unit) +

MAY 1955

	Hour G.M.T.																								Mean
	0-1	1-2	2-3	3-4	4-5	5-6	6-7	7-8	8-9	9-10	10-11	11-12	12-13	13-14	14-15	15-16	16-17	17-18	18-19	19-20	20-21	21-22	22-23	23-24	
	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ
1	1235	1238	1244	1248	1248	1248	1251	1252	1252	1249	1244	1238	1239	1244	1248	1251	1255	1257	1258	1260	1261	1256	1255	1253	1249
2	1252	1253	1254	1255	1255	1253	1254	1253	1250	1246	1239	1231	1226	1234	1245	1255	1255	1255	1255	1254	1256	1259	1256	1253	1250
3	1250	1249	1246	1249	1251	1249	1247	1246	1247	1239	1232	1228	1229	1234	1242	1248	1253	1257	1262	1259	1256	1255	1253	1252	1247
4	1252	1252	1252	1253	1253	1252	1254	1252	1249	1244	1242	1234	1231	1243	1249	1257	1256	1256	1254	1256	1262	1254	1252	1240	1250
5	1246	1249	1250	1247	1245	1245	1245	1244	1243	1239	1239	1236	1233	1234	1244	1256	1262	1257	1254	1251	1247	1245	1246	1245	1246
6 d	1248	1249	1251	1251	1250	1249	1245	1243	1241	1238	1237	1229	1237	1260	1274	1272	1263	1260	1256	1257	1255	1255	1241	1222	1249
7 d	1216	1186	1199	1219	1225	1209	1219	1231	1230	1234	1230	1227	1226	1236	1252	1260	1259	1255	1256	1262	1256	1253	1242	1232	1234
8 d	1230	1229	1217	1212	1202	1203	1224	1233	1242	1240	1233	1230	1245	1255	1249	1262	1275	1271	1285	1272	1262	1255	1241	1220	1241
9	1229	1241	1247	1248	1247	1250	1251	1255	1252	1243	1237	1233	1237	1244	1252	1255	1256	1265	1267	1261	1256	1256	1255	1250	1249
10	1234	1239	1244	1241	1244	1250	1252	1254	1252	1247	1240	1240	1238	1243	1251	1255	1255	1255	1256	1258	1264	1260	1259	1256	1249
11	1255	1254	1254	1253	1251	1253	1255	1255	1254	1251	1247	1242	1241	1247	1250	1251	1253	1254	1256	1255	1254	1255	1255	1253	1252
12	1252	1252	1252	1252	1254	1252	1253	1253	1250	1243	1236	1233	1235	1242	1245	1250	1256	1260	1267	1270	1269	1257	1234	1239	1250
13	1234	1232	1243	1248	1252	1252	1251	1250	1249	1245	1236	1225	1222	1228	1234	1239	1245	1258	1261	1260	1256	1255	1254	1250	1245
14	1242	1240	1245	1249	1245	1245	1244	1244	1245	1244	1245	1247	1247	1248	1250	1253	1255	1264	1268	1264	1262	1257	1253	1249	1250
15	1248	1248	1247	1245	1248	1250	1251	1250	1250	1249	1244	1243	1243	1245	1245	1248	1251	1255	1258	1257	1254	1252	1249	1245	1249
16	1226	1214	1208	1186	1192	1214	1236	1243	1244	1243	1238	1237	1239	1245	1248	1251	1255	1256	1259	1259	1256	1255	1254	1252	1238
17 q	1251	1249	1249	1251	1252	1256	1257	1259	1256	1247	1244	1243	1243	1248	1251	1252	1252	1254	1255	1253	1253	1251	1251	1250	1251
18	1244	1244	1247	1249	1249	1250	1251	1250	1248	1239	1233	1233	1233	1233	1234	1240	1244	1245	1249	1250	1249	1249	1249	1249	1244
19 q	1250	1249	1249	1250	1253	1254	1253	1251	1247	1240	1235	1233	1233	1237	1243	1249	1251	1251	1250	1251	1252	1251	1250	1250	1247
20	1250	1249	1248	1246	1246	1244	1243	1242	1236	1230	1222	1220	1222	1227	1235	1242	1249	1252	1251	1249	1248	1247	1247	1248	1241
21 q	1249	1250	1250	1249	1249	1248	1247	1247	1245	1238	1227	1222	1224	1230	1243	1249	1254	1255	1255	1251	1250	1248	1248	1248	1245
22	1249	1249	1249	1250	1251	1251	1249	1246	1244	1237	1230	1232	1233	1233	1241	1247	1250	1251	1249	1247	1246	1246	1246	1247	1245
23 q	1248	1248	1248	1249	1250	1250	1249	1246	1240	1232	1226	1223	1226	1236	1245	1244	1241	1243	1244	1245	1241	1246	1247	1246	1242
24 q	1246	1247	1247	1247	1247	1244	1246	1248	1244	1238	1232	1225	1226	1234	1245	1253	1253	1254	1253	1254	1252	1248	1245	1244	1245
25 d	1245	1244	1245	1248	1248	1248	1249	1253	1253	1252	1240	1233	1233	1234	1231	1228	1232	1234	1241	1262	1269	1252	1170	1088	1235
26 d	1033	1137	1122	1149	1185	1202	1232	1248	1255	1257	1255	1256	1255	1258	1267	1273	1275	1271	1270	1270	1265	1261	1257	1253	1229
27	1247	1251	1255	1255	1259	1261	1261	1256	1251	1249	1246	1238	1237	1249	1252	1274	1283	1276	1278	1274	1265	1251	1226	1213	1254
28	1226	1225	1220	1224	1234	1237	1237	1235	1242	1238	1239	1251	1257	1255	1266	1271	1270	1271	1271	1270	1263	1257	1254	1247	1248
29	1241	1249	1254	1254	1253	1253	1255	1256	1256	1253	1251	1249	1247	1253	1257	1264	1264	1262	1262	1261	1259	1256	1256	1255	1255
30	1256	1256	1256	1256	1258	1260	1259	1257	1256	1251	1243	1240	1241	1247	1251	1255	1258	1260	1261	1261	1261	1260	1256	1255	1255
31	1251	1249	1245	1246	1249	1251	1250	1249	1248	1244	1238	1233	1233	1235	1240	1245	1247	1253	1256	1255	1256	1255	1253	1245	1247
Mean	1237	1239	1240	1241	1243	1245	1247	1248	1247	1243	1238	1235	1236	1242	1248	1253	1256	1257	1259	1258	1257	1253	1247	1240	1246

DAILY EXTREMES OF TERRESTRIAL MAGNETIC ELEMENTS, MAGNETIC CHARACTER FIGURES AND TEMPERATURE IN MAGNET HOUSE

112 ESKDALEUIR

MAY 1955

	TERRESTRIAL MAGNETIC ELEMENTS												3-hr. range indices K	Sum of K indices	Magnetic character of day (0-2)	Temperature in magnet house 200 +			
	Horizontal force				Declination				Vertical force										
	Maximum 16,000γ +		Minimum 16,000γ +		Range	Maximum 10° +		Minimum 10° +		Range	Maximum 44,000γ +						Minimum 44,000γ +		Range
	h. m.	γ	γ	h. m.	γ	h. m.	γ	h. m.	γ	γ	h. m.	γ	γ	h. m.	γ				
1	21 25	698	634	10 00	64	12 39	60.8	52.0	08 14	8.8	20 17	1262	1233	00 07	29	2,2,1,1,1,2,2,3	14	0	84.5
2	19 37	696	646	15 29	50	12 49	63.1	51.8	07 34	11.3	21 36	1260	1224	12 38	36	0,0,1,2,2,2,2,2	11	0	84.5
3	15 46	704	651	08 20	53	17 47	62.0	52.0	06 26	10.0	18 23	1263	1226	11 49	37	2,1,1,1,2,3,2,1	13	0	84.5
4	18 30	691	644	09 33	47	12 46	64.3	51.7	22 22	12.6	20 36	1265	1228	12 20	37	1,0,1,2,3,2,2,3	14	0	84.5
5	21 58	710	636	10 44	74	13 41	65.8	52.5	04 31	13.3	16 10	1265	1231	13 00	34	1,1,2,2,3,4,2,2	17	1	84.4
6 d	18 46	723	561	13 15	162	14 00	74.3	40.1	23 40	34.2	14 36	1277	1203	22 52	74	3,2,2,3,5,3,3,5	26	1	84.4
7 d	00 59	734	577	09 10	157	14 22	65.3	41.6	02 08	23.7	19 28	1266	1181	01 50	85	5,3,3,4,3,3,3,4	28	1	84.4
8 d	18 44	769	610	09 14	159	15 06	66.7	43.1	00 11	23.6	18 28	1294	1199	04 26	95	4,4,3,3,3,4,5,4	30	1	84.4
9	18 09	719	625	10 02	94	14 40	63.1	51.8	07 15	11.3	18 19	1271	1217	00 00	54	2,2,2,2,2,3,3,2	18	0	84.4
10	21 34	704	610	11 27	94	13 16	61.8	51.6	22 04	10.2	21 02	1266	1231	00 33	35	3,2,2,3,1,2,3,3	19	1	84.4
11	18 53	699	630	10 50	69	15 04	61.3	51.8	07 59	9.5	18 18	1256	1238	11 52	18	1,1,1,1,1,2,2,1	10	0	84.4
12	21 50	720	638	09 03	82	14 31	63.3	49.6	21 41	13.7	20 08	1273	1232	11 30	41	0,1,1,2,1,2,3,3	13	0	84.4
13	18 44	717	645	09 27	72	13 12	67.0	50.9	01 53	16.1	18 10	1263	1221	12 20	42	2,1,1,2,3,3,3,2	17	1	84.4
14	17 16	709	618	11 15	91	13 03	64.9	52.7	05 08	12.2	18 17	1270	1238	01 20	32	2,3,2,3,3,3,2,2	20	1	84.5
15	23 56	716	638	12 04	78	14 08	60.8	52.2	08 41	8.6	19 05	1260	1239	24 00	21	2,2,2,1,1,2,2,3	15	0	84.5
16	00 25	727	602	03 50	125	03 24	63.9	46.8	02 20	17.1	18 42	1260	1171	03 42	89	4,4,2,3,1,1,1,1	17	1	84.5
17 q	24 00	706	636	10 42	70	13 39	61.8	51.2	07 43	10.6	07 50	1260	1241	10 21	19	1,1,1,0,1,1,0,2	7	0	84.5
18	00 02	706	645	11 05	61	15 12	61.7	50.1	08 21	11.6	06 37	1252	1232	13 35	20	2,1,1,0,2,3,2,1	12	0	84.5
19 q	20 00	694	641	10 07	53	12 24	63.6	50.8	06 35	12.8	05 56	1255	1232	11 33	23	1,1,2,1,1,1,1,1	9	0	84.5
20	18 40	712	647	09 51	65	14 09	62.3	51.0	07 16	11.3	17 58	1254	1219	10 37	35	1,1,1,2,1,2,2,2	12	0	84.5
21 q	17 40	699	645	10 52	54	13 50	63.2	52.7	08 10	10.5	17 55	1256	1221	11 50	35	1,0,1,1,2,2,1,2	10	0	84.4
22	18 03	709	643	10 17	66	14 56	62.1	50.3	07 16	11.8	04 05	1252	1230	10 37	22	2,2,0,1,1,2,3,1	12	0	84.4
23 q	18 00	703	656	10 12	47	13 47	62.6	50.9	07 36	11.7	05 30	1251	1222	11 50	29	1,0,1,1,2,2,1,0	8	0	84.4
24 q	18 46	700	655	10 45	45	13 33	64.4	52.1	07 33	12.3	17 30	1255	1223	12 00	32	0,1,1,0,2,3,2,1	10	0	84.4
25 d	18 30	860	481	23 24	379	18 31	69.2	24.1	23 25	45.1	21 30	1282	1059	23 31	223	1,1,1,1,4,4,5,6	23	2	84.4
26 d	17 39	699	534	00 07	165	02 28	63.1	30.2	00 01	32.9	16 21	1279	1004	00 21	275	5,4,3,5,3,4,3,1	28	1	84.4
27	15 44	772	612	23 00	160	15 18	67.6	43.6	19 34	24.0	15 56	1285	1205	23 22	80	2,1,1,1,4,5,4,4	22	1	84.4
28	23 34	698	604	11 16	94	13 37	63.1	48.8	01 07	14.3	15 00	1273	1216	02 56	57	3,3,4,3,3,3,3,3	25	1	84.4
29	20 34	687	622	09 18	65	14 08	62.4	48.9	08 12	13.5	16 07	1267	1240	00 15	27	2,1,2,2,2,3,1,2	15	0	84.4
30	19 22	701	640	08 04	61	13 09	62.5	51.9	06 35	10.6	20 50	1262	1238	12 32	24	1,1,2,1,2,2,2,1	12	0	84.5
31	23 21	694	643	10 20	51	14 15	64.4	49.5	06 17	14.9	18 57	1256	1232	12 30	24	2,2,2,1,2,1,1,2	13	0	84.5
Mean	- -	715	622 - -	94	- -	63.9	48.3 - -	15.6	- -	1265	1211 - -	54	-	-	-	-	0.42	-	84.4

TERRESTRIAL MAGNETIC FORCE: HORIZONTAL COMPONENT
Mean values for periods of sixty minutes ending at exact hours, G.M.T.

113 ESKDALEMUIR (H)													16,000γ (0.16 C.G.S. unit) +													JUNE 1955																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																					
	Hour G.M.T.																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																														</

MAGNETIC DECLINATION (WEST)
Mean values for periods of sixty minutes ending at exact hours, G.M.T.

114	ESKDALEMUIR (D)												10° +										JUNE 1955																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																										
	Hour G.M.T.																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																

TERRESTRIAL MAGNETIC FORCE: VERTICAL COMPONENT
Mean values for periods of sixty minutes ending at exact hours, G.M.T.

75

115 ESKDALEMUIR (Z)												44,000γ (0.44 C.G.S. unit) +												JUNE 1955											
	Hour G.M.T.																																		
	0-1	1-2	2-3	3-4	4-5	5-6	6-7	7-8	8-9	9-10	10-11	11-12	12-13	13-14	14-15	15-16	16-17	17-18	18-19	19-20	20-21	21-22	22-23	23-24	Mean										
	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ									
1	1244	1244	1243	1241	1246	1249	1244	1243	1245	1245	1243	1240	1243	1247	1243	1240	1249	1267	1267	1258	1255	1253	1254	1252	1248	1248									
2	1248	1247	1249	1251	1253	1254	1251	1250	1249	1241	1232	1230	1237	1243	1244	1246	1252	1254	1256	1260	1259	1256	1254	1253	1249	1249									
3	1255	1253	1253	1249	1251	1253	1252	1250	1248	1248	1246	1239	1239	1239	1245	1248	1250	1250	1256	1257	1262	1256	1255	1253	1250	1250									
4	1252	1252	1251	1252	1252	1251	1249	1242	1241	1239	1236	1234	1239	1244	1250	1255	1256	1256	1262	1263	1264	1257	1254	1253	1250	1250									
5 q	1251	1252	1252	1254	1255	1256	1253	1249	1245	1243	1239	1236	1238	1241	1248	1255	1257	1261	1263	1266	1260	1256	1252	1252	1251	1251									
6	1253	1253	1253	1253	1255	1251	1250	1250	1247	1241	1239	1236	1243	1245	1248	1251	1256	1260	1263	1270	1272	1268	1263	1252	1253	1253									
7	1243	1244	1236	1229	1240	1248	1250	1250	1249	1245	1239	1236	1237	1242	1248	1251	1252	1253	1253	1251	1249	1248	1248	1237	1245	1245									
8 d	1235	1239	1233	1211	1189	1203	1220	1231	1233	1232	1233	1238	1239	1248	1263	1275	1287	1306	1291	1276	1264	1262	1244	1245	1246	1246									
9	1249	1253	1255	1256	1256	1256	1256	1252	1252	1246	1243	1244	1247	1251	1255	1256	1257	1256	1255	1255	1256	1261	1255	1251	1253	1253									
10 q	1251	1253	1254	1255	1256	1255	1254	1252	1248	1243	1237	1238	1238	1239	1242	1249	1258	1263	1262	1259	1256	1255	1253	1251	1251	1251									
11	1250	1250	1251	1251	1252	1255	1255	1255	1248	1237	1234	1231	1233	1239	1240	1247	1250	1257	1264	1265	1264	1258	1253	1244	1249	1249									
12	1242	1242	1242	1248	1250	1249	1246	1242	1243	1245	1245	1250	1254	1255	1262	1266	1264	1265	1264	1264	1262	1260	1256	1252	1253	1253									
13	1251	1251	1253	1256	1257	1261	1257	1259	1252	1249	1248	1244	1247	1254	1263	1262	1264	1268	1265	1262	1261	1258	1254	1249	1256	1256									
14	1245	1248	1250	1252	1251	1254	1252	1251	1249	1242	1243	1246	1251	1253	1259	1268	1272	1277	1279	1277	1271	1264	1256	1254	1257	1257									
15 d	1252	1250	1231	1223	1232	1240	1246	1248	1253	1254	1252	1249	1251	1253	1257	1257	1257	1265	1272	1267	1262	1260	1255	1242	1251	1251									
16 d	1232	1218	1206	1232	1241	1247	1249	1248	1243	1241	1245	1247	1246	1256	1256	1257	1261	1257	1252	1256	1257	1259	1256	1253	1246	1246									
17	1250	1245	1243	1240	1244	1245	1248	1255	1256	1253	1248	1241	1244	1249	1256	1258	1262	1262	1262	1261	1264	1260	1247	1246	1252	1252									
18	1250	1251	1251	1250	1244	1246	1249	1250	1246	1247	1240	1238	1236	1243	1248	1249	1252	1253	1256	1259	1262	1261	1257	1256	1250	1250									
19	1255	1253	1247	1236	1242	1244	1245	1246	1250	1249	1244	1243	1245	1248	1251	1256	1257	1259	1260	1260	1261	1257	1256	1255	1251	1251									
20	1255	1254	1254	1254	1255	1255	1251	1251	1248	1243	1235	1229	1232	1237	1243	1245	1252	1262	1263	1257	1255	1252	1251	1250	1249	1249									
21 q	1249	1243	1242	1246	1249	1248	1246	1250	1250	1244	1240	1234	1233	1240	1248	1252	1257	1259	1255	1255	1254	1251	1250	1250	1248	1248									
22	1247	1249	1251	1253	1253	1253	1251	1249	1245	1243	1234	1222	1221	1231	1238	1242	1241	1248	1255	1257	1260	1260	1251	1240	1246	1246									
23 d	1238	1244	1245	1248	1249	1242	1244	1249	1250	1245	1235	1227	1228	1230	1233	1238	1239	1240	1251	1264	1261	1251	1250	1240	1243	1243									
24 d	1227	1210	1198	1201	1214	1227	1239	1241	1241	1239	1236	1230	1233	1237	1247	1251	1260	1261	1260	1259	1252	1256	1254	1245	1238	1238									
25	1244	1240	1234	1244	1245	1245	1245	1248	1243	1242	1243	1241	1243	1244	1247	1255	1262	1265	1267	1266	1260	1255	1251	1251	1249	1249									
26 q	1250	1250	1251	1249	1249	1250	1251	1252	1249	1245	1243	1244	1245	1245	1243	1246	1253	1255	1260	1262	1261	1257	1247	1245	1250	1250									
27	1246	1245	1248	1250	1252	1252	1251	1249	1243	1238	1238	1236	1238	1238	1239	1245	1252	1256	1254	1253	1253	1252	1251	1250	1247	1247									
28	1248	1242	1242	1245	1248	1244	1240	1244	1241	1238	1233	1233	1238	1243	1244	1244	1244	1249	1253	1253	1252	1252	1253	1239	1244	1244									
29	1239	1244	1247	1251	1253	1256	1255	1251	1248	1246	1244	1240	1237	1234	1238	1247	1246	1249	1251	1255	1256	1253	1250	1249	1247	1247									
30 q	1244	1244	1240	1244	1248	1249	1244	1244	1248	1243	1237	1233	1233	1238	1244	1247	1252	1255	1251	1250	1251	1251	1250	1250	1245	1245									
Mean	1247	1245	1243	1244	1246	1248	1248	1248	1247	1243	1240	1238	1240	1243	1248	1252	1256	1260	1261	1261	1259	1257	1253	1249	1246	1246									

DAILY EXTREMES OF TERRESTRIAL MAGNETIC ELEMENTS, MAGNETIC CHARACTER FIGURES AND TEMPERATURE IN MAGNET HOUSE

116	ESKDALEMUIR											JUNE 1955							
	TERRESTRIAL MAGNETIC ELEMENTS										3-hr. range indices K	Sum of K indices	Magnetic character of day (0-2)	Temperature in magnet house 200 +					
	Horizontal force			Declination			Vertical force												
	Maximum 16,000γ +	Minimum 16,000γ +	Range	Maximum 10° +	Minimum 10° +	Range	Maximum 44,000γ +	Minimum 44,000γ +	Range										
	h. m.	γ	γ	h. m.	γ	h. m.	γ	h. m.	γ	h. m.	γ								
1	17 20	719	636	10 55	83	13 30	65.3	48.4	05 50	16.9	17 47	1271	1238	11 30	33	2,2,2,2,3,3,1,1	16	0	84.5
2	23 08	695	634	09 36	61	13 03	64.9	50.6	05 56	14.3	20 07	1260	1229	10 52	31	2,1,1,2,2,3,2,2	15	0	84.5
3	17 50	720	647	07 55	73	13 17	63.2	49.8	05 58	13.4	20 27	1263	1237	13 11	26	1,2,1,1,2,3,3,1	14	0	84.5
4	19 00	706	639	10 10	67	12 30	65.3	49.9	06 09	15.4	20 11	1267	1233	11 30	34	2,2,2,1,3,3,2,2	17	0	84.5
5 q	17 25	714	634	08 57	80	15 01	63.5	49.1	07 48	14.4	19 28	1267	1236	11 18	31	1,1,1,2,2,3,2,1	13	0	84.5
6	17 35	737	639	11 30	98	12 35	62.7	45.6	23 13	17.1	20 00	1275	1234	11 12	41	0,0,0,1,2,3,3,3	12	1	84.5
7	23 04	720	627	10 10	93	12 25	65.1	48.2	05 09	16.9	16 54	1254	1227	03 27	27	3,3,2,3,3,3,2,3	22	1	84.5
8 d	17 05	764	612	03 57	152	15 30	72.4	46.3	07 02	26.1	17 33	1316	1182	04 23	134	2,5,2,3,3,5,3,3	26	1	84.5
9	18 46	711	629	10 50	82	14 30	65.4	50.5	07 49	14.9	21 30	1262	1241	10 27	21	1,1,2,2,3,2,3,3	17	0	84.5
10 q	15 04	689	625	10 54	64	13 15	61.7	49.0	06 00	12.7	17 50	1265	1235	10 35	30	1,1,1,2,2,2,1,1	11	0	84.5
11	22 23	736	643	11 40	93	12 59	64.0	51.8	22 14	12.2	19 29	1267	1230	11 30	37	0,1,2,2,3,2,3,2	15	0	84.5
12	06 55	710	642	12 10	68	12 23	60.6	54.0	23 53	6.6	15 41	1267	1241	09 44	26	3,2,2,2,3,1,2,2	17	0	84.5
13	17 32	712	634	14 08	78	13 22	62.1	52.5	06 55	9.6	17 53	1272	1244	11 36	28	1,0,2,1,3,3,2,2	14	0	84.5
14	15 46	716	625	10 24	91	14 27	63.1	47.5	08 08	15.6	18 32	1279	1239	09 50	40	2,2,3,4,3,4,3,1	22	1	84.5
15 d	22 50	721	603	08 25	118	02 38	63.5	48.0	05 53	15.5	18 36	1273	1218	03 00	55	3,3,3,3,3,3,3,3	24	1	84.5
16 d	00 11	709	600	10 24	109	01 56	66.1	48.8	06 49	17.3	13 50	1260	1198	02 00	62	4,2,2,3,3,3,2,1	20	1	84.5
17	17 01	715	601	11 03	114	13 53	63.5	50.9	07 12	12.6	20 39	1266	1238	03 41	28	2,2,2,3,3,3,2,3	20	1	84.6
18	19 33	700	625	09 20	75	15 24	61.4	47.9	07 12	13.5	21 01	1262	1234	12 30	28	1,2,2,3,2,2,1,1	14	0	84.6
19	18 38	704	648	10 01	56	02 50	65.6	51.3	05 52	14.3	20 20	1262	1229	03 07	33	3,3,2,2,3,2,2,1	18	0	84.6
20	16 41	729	633	10 11	96	13 53	64.4	49.6	07 30	14.8	18 08	1266	1227	11 48	39	0,0,0,1,2,4,3,1	11	0	84.6
21 q	19 18	705	636	09 40	69	13 07	62.6	50.4	07 56	12.2	17 06	1261	1232	12 35	29	2,1,1,1,2,2,1,1	11	0	84.6
22	18 46	736	645	11 47	91	16 14	64.5	51.0	06 08	13.5	21 14	1263	1216	12 11	47	2,1,0,3,3,3,3,3	18	0	84.6
23 d	20 48	742	641	19 20	101	15 56	66.0	42.5	23 48	23.5	19 48	1270	1226	11 46	44	3,3,3,2,2,3,4,4	24	1	84.6
24 d	20 42	718	607	00 05	111	14 09	66.3	37.9	02 30	28.4	17 23	1262	1195	02 50	67	4,3,3,3,3,3,2,2	24	1	84.6
25	19 36	720	609	11 15	111	15 09	64.1	49.4	06 44	14.7	19 04	1271	1231	02 14	40	2,1,3,2,3,2,3,1	17	1	84.6
26 q	19 32	700	634	11 24	66	14 13	60.0	50.1	06 09	9.9	19 59	1262	1241	10 20	21	1,1,1,1,1,2,1,2	10	0	84.6
27	18 45	699	652	10 20	47	16 18	60.9	51.0	06 23	9.9	17 10	1257	1236	11 48	21	1,1,2,2,2,3,2,1	14	0	84.6
28	23 03	710	633	10 30	77	13 05	63.5	52.5	05 13	11.0	22 21	1255	1233	11 00	22	2,2,1,2,2,2,2,3	16	0	84.6
29	18 53	709	650	11 01	59	14 11	60.0	54.6	08 06	5.4	20 24	1258	1233	13 40	25	2,0,2,2,3,2,3,2	16	0	84.6
30 q	18 50	703	651	10 07	52	14 29	62.7	50.5	01 08	12.2	17 02	1255	1233	11 42	22	2,0,2,2,3,2,3,2	11	0	84.6
Mean	- -	716	631	- -	85	- -	63.8	49.3	- -	14.5	- -	1266	1229	- -	37	-	-	0.37	84.5

TERRESTRIAL MAGNETIC FORCE: HORIZONTAL COMPONENT
Mean values for periods of sixty minutes ending at exact hours, G.M.T.

117 ESKDALEUIR (H)		16,000γ (0.16 C.G.S. unit) +																							JULY 1955		
	Hour	G.M.T.	0-1	1-2	2-3	3-4	4-5	5-6	6-7	7-8	8-9	9-10	10-11	11-12	12-13	13-14	14-15	15-16	16-17	17-18	18-19	19-20	20-21	21-22	22-23	23-24	Mean
			γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ
1			690	688	683	678	675	672	670	671	667	658	658	659	662	668	678	684	690	697	698	698	696	691	691	689	680
2 d			689	691	690	695	687	683	674	665	661	660	657	656	665	681	670	691	680	732	733	696	673	652	663	665	680
3			671	679	657	644	674	661	658	657	649	643	638	642	646	645	657	664	673	678	688	689	690	684	676	677	664
4 q			676	673	670	671	675	673	666	669	659	658	652	651	646	657	663	669	677	684	686	690	686	677	676	674	670
5 q			674	672	671	677	674	670	669	670	656	644	640	645	653	656	671	676	682	681	687	687	694	688	682	682	671
6			681	677	676	678	679	673	667	666	661	654	653	655	659	663	676	697	685	703	717	710	721	725	713	696	683
7			698	698	687	695	687	680	679	675	662	646	639	638	640	656	675	681	688	690	694	691	686	687	686	684	677
8			681	680	681	672	679	677	673	664	666	644	651	661	654	649	674	684	715	680	708	711	706	691	687	683	678
9			679	681	680	685	687	684	677	671	666	658	654	651	648	667	671	669	683	687	691	689	689	684	687	689	676
10			678	675	678	683	680	683	682	676	663	650	645	648	625	660	687	690	678	683	697	695	691	692	680	678	675
11 d			675	668	677	680	678	678	669	654	648	616	632	650	680	655	672	678	705	677	677	689	685	682	693	691	671
12 d			701	655	662	667	672	676	680	667	646	646	650	639	640	652	662	670	685	688	686	685	683	678	652	648	666
13			654	674	677	675	674	674	670	666	661	661	659	658	658	650	673	684	665	682	685	692	688	685	681	678	672
14			678	669	673	677	685	681	673	676	672	656	652	659	667	668	670	685	695	684	695	694	687	682	681	679	677
15 d			678	681	679	678	677	673	669	667	660	656	656	659	660	682	676	684	678	703	707	701	696	695	685	682	678
16			680	677	675	668	682	680	671	659	648	648	648	647	646	667	675	684	692	704	694	706	693	689	686	684	675
17			682	680	684	681	668	681	681	670	656	646	643	646	650	656	669	674	685	691	692	694	693	692	690	680	674
18			680	683	683	684	674	671	667	672	661	658	654	652	648	664	674	678	680	684	693	698	690	686	684	682	675
19 q			679	676	678	678	678	673	667	659	648	643	646	659	666	679	682	684	681	687	689	687	687	686	685	688	674
20			687	685	688	685	685	680	673	665	658	659	657	654	659	666	687	684	691	698	704	707	696	685	680	677	680
21 q			680	682	684	686	682	680	674	665	652	645	639	648	662	673	681	689	689	697	699	697	691	697	684	681	677
22			681	682	682	683	677	677	670	665	656	658	664	654	654	654	661	675	687	696	691	693	690	695	697	691	676
23			674	686	689	691	695	693	685	676	668	658	648	649	652	657	671	677	690	697	711	705	701	686	685	684	680
24			678	697	701	705	688	685	676	668	660	657	655	653	644	654	666	673	687	684	692	692	693	693	692	691	679
25			687	680	680	684	684	684	680	672	661	647	636	635	648	662	673	686	683	685	689	691	695	693	693	686	676
26			676	682	678	676	678	682	685	691	687	680	664	653	661	661	673	677	690	706	697	704	697	697	688	690	682
27			691	687	670	676	678	677	675	673	666	658	648	648	654	663	669	672	682	693	698	700	706	695	691	689	677
28 q			686	688	685	684	682	681	681	677	668	656	651	649	659	664	675	685	687	680	684	688	690	690	686	688	678
29			682	681	688	682	681	677	677	677	676	668	661	656	661	668	681	698	702	705	710	694	693	686	689	696	683
30			683	683	684	686	684	680	671	668	665	659	654	646	646	657	672	678	682	688	693	692	702	694	689	681	677
31			678	695	681	677	674	673	666	669	665	658	647	648	650	645	661	666	684	692	690	693	690	686	682	680	673
Mean			681	681	680	680	680	678	673	669	661	653	650	651	654	661	672	680	686	691	696	695	693	689	685	683	676

MAGNETIC DECLINATION (WEST)
Mean values for periods of sixty minutes ending at exact hours, G.M.T.

118 ESKDALEUIR (D)		10° +													JULY 1955												
	Hour G.M.T.	0-1	1-2	2-3	3-4	4-5	5-6	6-7	7-8	8-9	9-10	10-11	11-12	12-13	13-14	14-15	15-16	16-17	17-18	18-19	19-20	20-21	21-22	22-23	23-24	Mean	
1		57.1	57.8	55.0	53.9	52.1	52.3	53.0	51.1	49.9	51.0	53.5	56.2	59.2	61.6	61.7	60.2	58.9	58.7	57.7	57.5	57.4	57.5	57.6	57.1	56.2	
2 d		56.6	56.4	55.6	51.2	48.7	49.2	48.7	50.4	51.3	52.3	55.0	57.7	61.3	63.2	65.3	64.9	61.6	62.0	61.6	57.6	47.3	49.1	54.3	55.7	55.7	
3		55.2	57.1	53.7	54.0	58.0	53.3	52.5	51.2	51.3	51.8	54.8	57.2	59.0	61.1	61.8	60.6	59.0	58.3	57.2	56.2	55.4	54.5	54.4	55.3	56.0	
4 q		55.2	55.2	54.5	55.1	53.9	52.3	50.6	50.3	51.0	52.5	54.1	56.9	59.6	62.1	63.0	61.6	59.9	58.5	57.1	56.5	55.8	55.0	55.3	55.1	55.9	
5 q		54.9	54.6	56.0	55.2	52.9	51.3	50.3	49.6	49.4	51.0	54.2	57.2	60.0	61.7	62.6	62.7	60.9	58.6	57.3	56.3	55.9	55.4	54.8	54.8	55.7	
6		54.5	53.8	53.4	53.6	53.1	51.5	52.0	51.8	53.4	55.2	57.2	59.9	61.8	63.1	63.9	64.3	63.2	62.8	62.1	61.0	60.6	59.1	56.2	55.3	57.6	
7		55.9	54.7	55.8	50.9	50.8	51.9	51.8	51.8	51.8	52.4	54.1	57.2	59.8	60.9	61.6	60.9	59.1	58.7	57.7	55.7	55.3	55.8	54.9	57.1	55.7	
8		55.4	55.3	55.3	54.9	55.3	51.9	49.9	49.5	50.0	52.5	55.0	57.1	60.9	61.7	61.4	60.9	60.8	57.4	58.3	57.2	53.9	56.7	57.0	56.3	56.0	
9		55.9	55.5	55.0	53.9	52.6	51.1	50.5	50.5	50.7	53.2	56.7	60.1	62.1	60.8	60.0	58.9	58.0	57.2	55.8	55.4	56.2	55.9	56.3	53.6	55.7	
10		54.1	54.3	55.1	55.4	54.6	53.5	51.3	50.1	50.5	53.0	56.1	59.0	60.0	61.1	62.1	62.1	61.0	59.9	57.7	57.9	58.3	57.6	54.8	55.4	56.5	
11 d		54.2	56.4	57.0	52.2	49.6	48.8	48.6	51.3	54.9	55.7	58.5	57.8	60.8	61.7	59.3	58.6	60.0	57.7	57.4	57.8	56.4	55.9	56.9	58.1	56.1	
12 d		60.7	54.9	52.3	51.9	51.3	50.1	50.2	53.5	56.3	58.1	57.7	57.1	58.3	58.7	58.3	59.0	57.3	56.6	57.9	58.4	57.0	58.9	57.2	50.9	55.9	
13		55.9	56.8	54.1	53.7	53.8	53.8	51.0	50.7	51.1	53.3	55.6	57.8	61.2	61.3	62.5	62.4	59.5	58.3	58.2	57.7	56.5	56.7	57.3	56.6	56.5	
14		55.9	55.2	54.9	53.7	52.3	52.2	53.7	52.4	52.3	54.2	56.0	57.4	59.1	60.3	60.3	59.2	59.0	57.6	56.9	57.7	57.5	57.0	56.4	55.9	56.1	
15 d		55.3	55.0	54.1	53.5	52.2	51.6	51.4	50.6	50.7	51.6	54.5	57.3	59.8	61.3	61.9	62.1	61.6	61.3	60.0	59.4	56.1	52.8	56.8	56.6	56.1	
16		58.4	60.5	56.0	54.8	54.1	51.0	50.6	50.1	50.5	51.0	53.1	56.5	59.8	60.9	59.7	59.6	59.7	59.0	58.2	57.7	55.3	52.6	55.8	55.7	55.9	
17		55.3	54.7	54.9	53.1	54.6	55.9	50.6	50.0	50.7	51.8	55.7	57.7	59.2	59.9	60.7	59.8	58.6	58.3	57.8	57.5	57.2	55.2	55.2	54.9	55.8	
18		54.9	54.8	54.4	54.3	53.1	55.9	54.4	53.6	52.7	53.0	54.4	59.3	62.3	62.0	59.7	58.5	57.4	55.9	55.4	55.9	56.7	57.0	57.1	56.7	56.2	
19 q		56.5	55.6	54.7	53.6	52.6	51.1	51.0	50.8	51.8	54.9	57.4	60.0	62.8	63.9	62.4	61.0	59.3	57.7	57.3	57.2	56.7	56.3	56.2	56.2	56.5	
20		55.9	55.4	55.5	54.4	53.2	52.4	52.4	51.9	51.8	54.2	57.3	59.5	59.5	59.3	59.9	58.8	57.2	56.6	56.5	56.6	54.8	55.0	55.8	56.7	55.9	
21 q		55.5	55.5	54.1	54.6	53.6	52.3	51.5	51.2	52.4	53.9	56.3	59.0	61.8	62.4	62.4	60.8	58.4	57.3	56.9	56.9	56.4	54.3	51.2	54.0	55.9	
22		54.9	54.5	54.5	54.4	53.4	52.7	51.0	50.7	51.0	53.6	56.5	59.3	61.5	62.0	62.3	61.7	59.9	57.5	56.3	55.8	55.8	56.2	55.4	50.8	55.9	
23		52.5	53.2	53.6	53.1	52.3	51.7	51.0	51.5	51.0	52.0	53.8	57.7	61.3	62.5	62.3	61.1	59.9	57.9	57.2	56.9	57.2	55.4	53.8	51.8	55.4	
24		51.1	53.4	52.9	53.1	50.0	50.7	49.3	50.0	50.7	51.3	53.7	56.6	59.0	61.0	61.0	60.1	59.7	58.1	56.7	56.3	56.3	56.3	56.1	54.9	54.9	
25		52.8	53.4	53.8	52.6	52.8	51.2	53.3	52.7	51.9	52.6	55.6	57.9	60.3	62.7	63.5	62.0	60.0	58.8	57.9	57.2	56.5	56.3	54.9	53.8	56.0	
26 d		52.0	54.4	52.7	52.7	51.1	51.8	49.9	50.0	50.0	51.8	55.3	58.0	61.3	63.2	62.7	61.2	61.1	59.7	57.7	58.5	51.8	53.8	53.0	55.4	55.4	
27		55.1	53.3	54.1	53.8	52.1	50.1	49.9	49.9	50.0	51.7	54.7	56.4	59.1	61.1	61.8	60.8	60.3	60.0	59.5	58.2	56.5	55.6	55.9	55.2	55.6	
28 q		54.6	54.5	54.0	54.6	53.8	52.6	52.0	52.4	49.9	50.5	51.9	53.7	57.1	60.3	61.4	60.8	59.1	57.3	57.0	56.5	56.6	55.9	55.2	53.7	55.2	
29		54.5	56.7	56.3	53.4	52.6	51.4	52.2	51.8	50.8	51.8	54.9	58.5	62.5	64.3	64.0	61.7	60.0	59.4	59.0	58.3	54.2	55.9	56.5	54.8	56.5	
30		55.8	55.3	54.5	53.3	52.8	50.5	50.1	51.8	51.0	50.9	53.8	57.3	61.5	63.2	62.6	61.2	60.0	58.1	56.5	56.2	56.9	56.5	54.1	54.9	55.8	
31		55.4	56.3	54.3	52.2	51.3	49.6	51.2	52.2	52.4	54.5	57.2	60.8	63.6	63.2	63.2	61.7	60.4	58.7	57.1	56.5	56.3	56.5	56.4	57.0	56.5	
Mean		55.2	55.3	54.6	53.6	52.7	51.8	51.2	51.1	51.4	52.8	55.3	57.9	60.5	61.7	61.8	60.9	59.7	58.5	57.7	57.2	56.0	55.7	55.6	55.1	56.0	

TERRESTRIAL MAGNETIC FORCE: VERTICAL COMPONENT
Mean values for periods of sixty minutes ending at exact hours, G.M.T.

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119 ESKDALEUIR (Z)		44,000γ (0.44 C.G.S. unit) +																				JULY 1955				
	Hour G.M.T.	0-1	1-2	2-3	3-4	4-5	5-6	6-7	7-8	8-9	9-10	10-11	11-12	12-13	13-14	14-15	15-16	16-17	17-18	18-19	19-20	20-21	21-22	22-23	23-24	Mean
		γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ
1		1248	1244	1244	1247	1249	1249	1246	1247	1244	1241	1232	1226	1232	1234	1234	1236	1242	1248	1247	1248	1250	1251	1250	1250	1243
2	d	1249	1246	1241	1237	1240	1243	1243	1240	1232	1225	1225	1225	1228	1228	1230	1233	1238	1243	1260	1263	1258	1251	1259	1257	1241
3		1255	1243	1238	1236	1219	1227	1233	1240	1244	1240	1238	1234	1242	1245	1249	1251	1255	1256	1256	1259	1258	1258	1256	1252	1245
4	q	1251	1251	1250	1249	1248	1248	1247	1248	1252	1251	1247	1243	1241	1241	1246	1251	1255	1256	1256	1257	1256	1256	1255	1254	1250
5	q	1252	1252	1251	1251	1252	1254	1252	1252	1250	1248	1247	1244	1244	1245	1250	1253	1256	1258	1260	1257	1256	1256	1255	1253	1252
6		1251	1251	1252	1253	1253	1252	1248	1247	1247	1245	1241	1240	1244	1245	1248	1247	1250	1255	1260	1259	1254	1253	1256	1256	1250
7		1252	1243	1228	1213	1220	1227	1234	1239	1244	1245	1241	1238	1239	1243	1245	1252	1264	1266	1262	1261	1257	1255	1253	1248	1245
8		1249	1251	1252	1253	1249	1249	1250	1250	1245	1244	1243	1234	1243	1249	1250	1254	1262	1270	1269	1273	1270	1261	1256	1255	1253
9		1255	1255	1256	1257	1259	1259	1256	1248	1244	1241	1238	1239	1244	1248	1255	1257	1258	1260	1259	1256	1256	1253	1251	1250	1252
10		1249	1250	1251	1252	1252	1254	1252	1250	1249	1244	1248	1243	1244	1243	1249	1260	1273	1279	1280	1273	1265	1260	1256	1252	1255
11	d	1247	1247	1233	1236	1246	1250	1250	1249	1246	1250	1245	1245	1243	1251	1259	1264	1262	1262	1259	1255	1256	1255	1251	1249	1250
12	d	1219	1191	1225	1243	1252	1250	1250	1252	1249	1245	1248	1255	1263	1268	1278	1291	1302	1303	1298	1290	1280	1260	1242	1242	1258
13		1241	1232	1244	1251	1256	1256	1256	1256	1252	1251	1250	1248	1248	1252	1253	1255	1256	1263	1262	1262	1263	1263	1258	1256	1253
14		1255	1253	1256	1257	1256	1252	1252	1251	1253	1251	1247	1237	1238	1246	1251	1253	1261	1267	1264	1262	1260	1256	1256	1254	1254
15	d	1253	1252	1252	1252	1254	1255	1251	1249	1245	1245	1243	1232	1235	1239	1255	1260	1261	1256	1257	1257	1262	1262	1253	1253	1251
16		1251	1227	1225	1234	1235	1242	1245	1246	1247	1244	1240	1239	1239	1243	1247	1252	1257	1259	1262	1261	1263	1262	1256	1253	1247
17		1253	1253	1251	1252	1252	1243	1242	1247	1250	1253	1246	1240	1239	1236	1241	1249	1256	1256	1255	1251	1251	1252	1251	1251	1249
18		1251	1251	1251	1251	1251	1247	1238	1233	1233	1234	1238	1239	1239	1250	1255	1262	1266	1266	1266	1265	1258	1256	1255	1254	1250
19	q	1253	1253	1254	1252	1253	1256	1253	1250	1249	1239	1233	1228	1228	1233	1240	1245	1255	1254	1251	1251	1251	1251	1250	1250	1247
20		1250	1250	1250	1251	1252	1254	1251	1248	1246	1239	1229	1222	1228	1234	1245	1251	1253	1257	1257	1256	1260	1256	1254	1252	1248
21	q	1251	1250	1248	1249	1252	1252	1252	1251	1252	1244	1238	1238	1236	1237	1243	1249	1257	1262	1263	1262	1261	1256	1250	1248	1250
22		1249	1250	1251	1251	1252	1253	1251	1249	1246	1246	1241	1236	1237	1240	1244	1244	1248	1255	1256	1256	1253	1251	1250	1250	1248
23		1249	1244	1247	1250	1254	1253	1253	1255	1253	1246	1241	1238	1237	1238	1239	1245	1251	1255	1255	1254	1254	1255	1254	1244	1249
24		1245	1244	1245	1247	1251	1251	1248	1245	1244	1243	1238	1234	1232	1232	1236	1240	1248	1252	1252	1251	1251	1249	1248	1249	1245
25		1247	1247	1244	1244	1248	1248	1245	1245	1245	1241	1240	1238	1237	1240	1241	1244	1251	1253	1251	1251	1250	1250	1250	1246	1246
26	d	1245	1243	1244	1246	1249	1249	1244	1241	1239	1237	1237	1231	1224	1229	1235	1243	1244	1248	1251	1255	1259	1249	1244	1244	1243
27		1240	1236	1240	1243	1248	1251	1247	1245	1245	1240	1234	1230	1234	1239	1245	1246	1249	1248	1249	1251	1250	1248	1248	1248	1244
28	q	1248	1248	1248	1248	1249	1250	1248	1251	1252	1248	1245	1236	1231	1236	1238	1240	1251	1256	1256	1255	1255	1253	1251	1249	1248
29		1249	1248	1244	1245	1249	1251	1251	1250	1249	1245	1244	1238	1233	1235	1237	1243	1250	1250	1249	1251	1256	1257	1251	1244	1247
30		1245	1245	1248	1249	1250	1250	1250	1249	1245	1243	1233	1232	1228	1229	1232	1238	1244	1249	1249	1249	1246	1246	1248	1248	1244
31		1246	1238	1240	1244	1249	1249	1245	1244	1245	1244	1241	1238	1240	1245	1248	1251	1255	1256	1256	1255	1254	1251	1250	1249	1247
Mean		1248	1245	1245	1247	1248	1249	1248	1247	1246	1243	1240	1237	1238	1241	1246	1250	1256	1259	1259	1258	1257	1255	1252	1250	1249

DAILY EXTREMES OF TERRESTRIAL MAGNETIC ELEMENTS, MAGNETIC CHARACTER FIGURES AND TEMPERATURE IN MAGNET HOUSE

120 ESKDALEUIR												JULY 1955								
	TERRESTRIAL MAGNETIC ELEMENTS											3-hr. range indices K	Sum of K indices	Magnetic character of day (0-2)	Temperature in magnet house 200 + °A.					
	Horizontal force			Declination			Vertical force													
	Maximum 16,000γ +	Minimum 16,000γ +	Range	Maximum 10° +	Minimum 10° +	Range	Maximum 44,000γ +	Minimum 44,000γ +	Range											
	h. m.	γ	γ	h. m.	γ	h. m.	γ	h. m.	γ	γ	h. m.	γ								
1	18 57	702	649	10 56	53	14 08	62.1	49.5	08 25	12.6	21 10	1252	1229	12 10	23	2,1,2,2,1,1,1,0	10	0	84.7	
2 d	17 07	776	639	20 52	137	14 02	67.1	39.5	20 53	27.6	19 22	1273	1225	10 10	48	1,3,1,2,3,5,5,4	24	1	84.7	
3	16 20	703	626	10 08	77	13 59	62.3	49.5	07 55	12.8	19 55	1260	1217	04 40	43	3,3,2,2,2,3,3,2,1	18	1	84.7	
4 q	19 59	694	641	12 35	53	14 08	63.2	49.8	06 54	13.4	19 08	1257	1240	13 32	17	1,1,2,1,1,1,1,0	8	0	84.7	
5 q	20 56	697	638	10 34	59	15 00	63.1	48.7	08 14	14.4	18 20	1261	1243	11 50	18	1,1,1,1,1,2,2,1,1	9	0	84.7	
6	21 18	732	650	11 14	82	15 08	63.9	50.9	05 17	13.0	18 50	1262	1239	11 05	23	1,1,1,1,1,1,3,2,3	13	0	84.7	
7	01 17	721	628	12 07	93	14 51	62.4	48.2	03 46	14.2	17 20	1267	1210	03 34	57	3,3,2,2,3,3,2,2	20	1	84.7	
8	16 42	751	634	09 44	117	16 41	62.5	48.7	08 11	13.8	20 08	1275	1233	11 39	42	0,1,2,3,2,4,3,1	16	1	84.7	
9	20 20	695	640	12 23	55	12 49	62.6	49.5	06 35	13.1	17 49	1262	1237	10 11	25	1,1,1,2,2,1,1,2	11	0	84.8	
10	15 58	714	613	12 02	101	15 59	64.2	49.4	07 06	14.8	18 22	1282	1241	11 40	41	1,1,2,3,4,3,2,2	18	1	84.7	
11 d	16 36	730	595	09 45	135	13 24	62.4	48.1	05 42	14.3	17 10	1266	1231	02 30	35	3,2,3,4,3,4,3,2	24	1	84.8	
12 d	04 35	725	620	11 13	105	00 34	70.8	49.4	23 33	21.4	17 16	1305	1181	01 03	124	4,2,3,3,3,3,2,4	24	1	84.9	
13	15 38	705	634	13 14	71	15 26	63.1	50.4	07 33	12.7	17 44	1266	1228	01 22	38	3,2,1,1,3,3,2,1	16	0	84.8	
14	16 49	699	649	10 50	50	14 04	61.3	50.7	04 55	10.6	17 30	1268	1234	12 07	34	2,2,2,1,3,2,1,0	13	0	84.8	
15 d	15 24	752	630	14 53	122	15 24	65.3	48.0	21 04	17.3	21 01	1267	1230	11 57	37	1,1,1,2,4,5,3,3	20	1	84.8	
16	19 29	720	634	12 11	86	01 16	62.6	48.8	21 20	13.8	20 53	1266	1222	02 02	44	3,2,1,2,2,2,3,3	18	0	84.8	
17	20 03	702	637	10 06	65	14 29	60.7	49.1	07 40	11.6	17 09	1259	1234	13 40	25	1,3,2,1,1,1,2,2	13	0	84.8	
18	19 24	703	641	12 04	62	12 56	63.1	51.7	04 53	11.4	16 30	1267	1232	07 54	35	2,3,2,1,1,1,2,1	13	0	84.8	
19 q	17 45	692	641	09 45	51	13 16	64.0	50.3	05 58	13.7	05 40	1256	1227	12 10	29	1,1,1,2,1,2,0,1	9	0	84.7	
20	19 04	713	650	12 00	63	14 46	60.3	51.6	08 24	8.7	20 42	1260	1221	11 21	39	2,0,1,2,2,2,2,1	12	0	84.6	
21 q	21 53	719	637	10 25	82	13 19	62.7	50.0	21 49	12.7	17 50	1264	1233	13 00	31	1,1,0,1,0,2,1,3	9	0	84.6	
22	22 31	702	650	11 29	52	14 10	62.7	49.5	23 57	13.2	17 55	1257	1234	11 18	23	1,1,0,2,2,2,1,3	12	0	84.6	
23	19 07	724	639	11 10	85	14 46	62.4	48.4	23 59	14.0	17 40	1257	1236	12 35	21	2,1,1,2,2,1,2,3	14	0	84.6	
24	03 56	713	630	11 45	83	14 10	61.8	47.2	07 04	14.6	04 16	1254	1229	12 58	25	2,3,2,3,2,2,2,2	18	1	84.6	
25	20 43	702	629	10 51	73	14 20	65.1	50.7	05 35	14.4	17 25	1255	1234	12 12	21	2,1,2,2,2,2,2,2	15	0	84.6	
26 d	21 23	721	613	13 03	108	13 41	65.4	48.0	20 49	17.4	21 00	1262	1221	12 25	41	2,2,2,3,4,3,3,3	22	1	84.6	
27	20 07	713	641	10 40	72	14 27	62.4	48.8	05 44	13.6	19 44	1252	1229	11 12	23	3,1,1,2,1,2,2,2	14	0	84.6	
28 q	23 03	698	648	11 36	50	14 59	61.6	49.3	07 48	12.3	18 05	1257	1228	12 15	29	1,0,1,2,2,2,0,2	10	0	84.6	
29	18 29	722	650	12 04	72	14 07	64.5	50.2	08 33	14.3	20 50	1263	1232	12 42	31	2,1,2,1,1,1,3,3	14	0	84.6	
30	18 11	707	635	12 46	72	13 46	63.4	49.5	06 02	13.9	05 10	1252	1228	12 35	24	0,2,1,2,2,2,2,2	13	0	84.6	
31	01 24	711	637	13 36	74	13 00	64.2	49.1	06 05	15.1	17 50	1257	1238	11 48	19	3,1,2,1,2,2,1,1	13	0	84.6	
Mean	- -	715	635	- -	79	- -	63.3	49.1	- -	14.2	- -	1263	1229	- -	34	-	-	0.32	-	84.7

TERRESTRIAL MAGNETIC FORCE: HORIZONTAL COMPONENT
Mean values for periods of sixty minutes ending at exact hours, G.M.T.

121 ESKDALEMUIR (H)		16,000γ (0.16 C.G.S. unit) +														AUGUST 1955										
	Hour G.M.T.	0-1	1-2	2-3	3-4	4-5	5-6	6-7	7-8	8-9	9-10	10-11	11-12	12-13	13-14	14-15	15-16	16-17	17-18	18-19	19-20	20-21	21-22	22-23	23-24	Mean
	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ
1 q	678	675	676	676	680	680	673	665	656	657	654	652	667	676	678	680	693	708	697	693	693	694	693	693	693	679
2	693	696	689	686	685	682	677	672	666	660	656	661	665	671	677	679	687	694	699	703	705	696	682	685	682	682
3	680	664	678	693	689	690	677	661	656	655	652	658	658	680	680	667	680	694	693	696	696	696	699	702	679	679
4 d	676	680	685	693	682	693	701	682	664	648	593	594	601	673	654	669	698	702	689	670	676	677	668	667	668	668
5 d	677	673	673	673	669	674	669	657	629	639	650	638	626	647	666	664	681	682	697	707	706	682	680	699	669	669
6 d	680	680	680	692	693	688	642	640	632	631	632	644	641	654	680	708	707	733	712	697	691	659	687	652	673	673
7 d	652	665	662	661	666	657	657	638	621	617	628	624	630	634	661	673	677	693	698	694	707	678	679	677	660	660
8	673	657	665	670	671	671	669	664	654	637	629	641	650	646	662	676	682	687	690	691	685	682	678	682	667	667
9	673	671	673	672	674	677	673	665	654	648	639	637	645	657	664	672	669	678	687	693	692	685	684	679	669	669
10	678	678	679	688	684	686	684	674	666	656	651	654	669	667	667	677	678	685	691	693	690	691	689	685	677	677
11 q	684	682	682	684	680	677	673	666	665	658	655	656	666	672	677	685	684	687	690	696	697	695	689	684	679	679
12	687	691	687	677	679	681	680	674	669	660	661	664	662	668	667	668	678	688	695	692	693	691	690	686	679	679
13	684	687	681	679	679	669	667	664	656	648	656	670	677	681	685	680	687	687	688	694	700	697	700	692	679	679
14	683	685	688	684	687	683	677	674	668	667	663	657	670	671	672	681	695	716	685	702	699	690	687	698	683	683
15	692	686	687	704	700	687	668	665	662	659	653	664	682	678	662	667	672	671	678	682	682	681	678	676	677	677
16	674	675	675	672	670	675	673	679	673	665	661	656	652	651	658	667	674	682	688	691	688	685	687	683	673	673
17	683	681	680	679	678	677	671	660	650	646	651	652	661	659	668	681	698	698	683	691	690	691	692	689	675	675
18	681	680	681	681	683	675	667	674	673	666	654	648	661	671	674	662	674	686	693	685	678	687	686	680	675	675
19	671	672	674	680	682	674	682	675	667	653	652	650	650	666	675	683	684	688	686	689	687	685	679	680	674	674
20	681	678	679	678	677	675	673	665	656	649	641	644	656	668	682	676	675	694	694	687	685	685	684	684	674	674
21	700	683	676	677	673	676	671	667	666	659	655	655	659	670	678	681	684	689	689	689	687	686	684	686	677	677
22 q	684	683	680	680	679	675	668	663	659	657	661	666	671	678	680	681	682	687	687	692	692	690	688	683	678	678
23 q	686	684	684	684	682	682	675	665	660	659	658	658	659	665	675	678	683	689	694	695	693	690	688	687	678	678
24	685	684	682	680	681	688	690	681	672	662	660	652	657	669	672	677	682	693	700	698	701	694	690	687	681	681
25 q	687	687	687	685	686	684	679	673	667	666	667	667	675	669	678	682	680	693	693	695	687	691	691	692	682	682
26	693	692	688	682	676	672	670	659	658	654	662	663	672	680	675	675	671	678	687	687	688	687	685	685	677	677
27	685	683	680	679	678	678	675	669	667	663	663	667	674	681	682	687	681	688	685	693	704	698	694	687	681	681
28 d	688	687	687	689	674	669	636	643	631	666	666	655	661	659	656	661	671	677	679	687	684	683	683	684	670	670
29	685	681	675	671	663	657	662	666	662	652	649	652	667	672	685	673	677	675	676	692	674	675	671	672	670	670
30	674	672	669	669	670	667	663	659	654	646	644	650	665	671	675	675	675	670	677	683	684	686	683	687	669	669
31	680	680	674	675	678	676	673	664	654	655	659	652	666	676	679	669	672	675	683	684	690	691	695	679	674	674
Mean	681	680	679	680	679	677	671	665	658	653	651	652	659	667	672	676	682	689	690	692	691	687	686	684	675	675

MAGNETIC DECLINATION (WEST)
Mean values for periods of sixty minutes ending at exact hours, G.M.T.

122 ESKDALEMUIR (D)												10° +												AUGUST 1955																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																								
	Hour G.M.T.																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																															</

TERRESTRIAL MAGNETIC FORCE: VERTICAL COMPONENT
Mean values for periods of sixty minutes ending at exact hours, G.M.T.

79

123		ESKDALEUIR (Z)											44,000γ (0.44 C.G.S. unit) +																			AUGUST 1955	
		Hour G.M.T.																															
		0-1	1-2	2-3	3-4	4-5	5-6	6-7	7-8	8-9	9-10	10-11	11-12	12-13	13-14	14-15	15-16	16-17	17-18	18-19	19-20	20-21	21-22	22-23	23-24	Mean							
		γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ							
1	q	1249	1249	1249	1249	1251	1251	1251	1251	1251	1249	1244	1237	1234	1239	1248	1249	1249	1257	1266	1264	1261	1256	1253	1249	1250							
2		1249	1245	1240	1240	1245	1250	1250	1251	1245	1246	1243	1237	1234	1237	1243	1248	1253	1255	1251	1250	1250	1254	1255	1244	1246							
3		1239	1244	1230	1225	1238	1244	1249	1249	1244	1243	1238	1234	1238	1239	1250	1255	1256	1261	1262	1259	1255	1255	1252	1240	1246							
4	d	1238	1236	1240	1247	1248	1236	1237	1240	1242	1240	1244	1244	1245	1251	1276	1297	1313	1321	1322	1296	1276	1268	1251	1244	1261							
5	d	1244	1247	1255	1256	1262	1261	1259	1255	1252	1254	1255	1252	1251	1252	1262	1271	1271	1277	1270	1268	1268	1260	1255	1232	1258							
6	d	1221	1230	1243	1246	1239	1238	1238	1229	1232	1237	1240	1244	1255	1276	1295	1309	1313	1305	1296	1289	1287	1280	1243	1239	1259							
7	d	1239	1230	1228	1238	1244	1245	1237	1240	1245	1240	1238	1240	1244	1256	1268	1275	1275	1277	1278	1284	1275	1268	1264	1260	1254							
8		1257	1256	1255	1257	1262	1262	1259	1262	1263	1260	1253	1248	1245	1253	1257	1263	1268	1277	1279	1270	1261	1257	1256	1254	1260							
9		1245	1250	1252	1256	1261	1261	1260	1257	1255	1256	1252	1250	1251	1255	1260	1262	1265	1267	1267	1262	1262	1257	1256	1255	1257							
10		1253	1253	1254	1249	1249	1252	1251	1251	1251	1251	1249	1241	1239	1245	1256	1265	1268	1271	1268	1263	1262	1260	1257	1253	1255							
11	q	1254	1256	1256	1256	1260	1261	1257	1256	1253	1246	1246	1244	1247	1251	1257	1262	1263	1265	1262	1257	1256	1254	1253	1254	1255							
12		1252	1250	1249	1249	1252	1252	1251	1250	1248	1235	1228	1229	1237	1240	1246	1251	1255	1256	1252	1253	1255	1253	1251	1250	1248							
13		1250	1247	1244	1244	1249	1250	1244	1240	1241	1238	1234	1228	1226	1231	1245	1253	1252	1252	1251	1251	1251	1251	1251	1248	1245							
14		1243	1237	1233	1242	1246	1248	1247	1246	1246	1244	1237	1233	1237	1239	1246	1254	1266	1280	1290	1283	1275	1264	1260	1257	1252							
15		1261	1259	1256	1251	1250	1251	1252	1254	1252	1253	1248	1244	1243	1248	1260	1265	1263	1260	1253	1253	1253	1254	1254	1253	1254							
16		1253	1253	1253	1254	1255	1248	1244	1239	1243	1246	1245	1243	1243	1245	1246	1252	1255	1254	1251	1251	1251	1252	1250	1250	1249							
17		1251	1251	1251	1251	1252	1253	1254	1255	1256	1249	1241	1233	1233	1239	1248	1253	1262	1267	1267	1259	1258	1256	1247	1240	1251							
18		1244	1247	1250	1251	1251	1251	1249	1250	1249	1241	1238	1238	1238	1244	1253	1259	1260	1262	1265	1266	1263	1256	1254	1249	1251							
19		1247	1248	1248	1248	1250	1249	1244	1249	1249	1249	1246	1240	1239	1243	1249	1257	1257	1257	1256	1252	1253	1256	1251	1250	1249							
20		1251	1252	1251	1252	1255	1256	1256	1256	1252	1244	1237	1232	1233	1241	1251	1259	1261	1256	1257	1256	1255	1252	1251	1251	1251							
21		1242	1241	1245	1249	1251	1251	1254	1251	1250	1247	1242	1238	1243	1249	1257	1260	1260	1260	1260	1259	1256	1254	1252	1250	1251							
22	q	1250	1251	1251	1251	1255	1255	1255	1251	1249	1244	1238	1233	1232	1240	1250	1255	1254	1252	1250	1250	1251	1251	1251	1251	1249							
23	q	1250	1250	1250	1250	1251	1251	1251	1252	1246	1239	1234	1228	1228	1234	1243	1250	1253	1252	1252	1251	1251	1251	1250	1249	1247							
24		1249	1249	1249	1250	1250	1250	1249	1250	1249	1245	1241	1239	1240	1241	1243	1245	1248	1250	1250	1249	1248	1247	1248	1249	1247							
25	q	1250	1250	1248	1250	1249	1251	1251	1251	1247	1238	1235	1233	1232	1236	1239	1245	1248	1250	1255	1257	1259	1257	1253	1249	1247							
26		1247	1244	1241	1245	1248	1251	1251	1249	1241	1236	1232	1228	1233	1238	1246	1251	1252	1251	1248	1248	1248	1248	1249	1247	1245							
27		1245	1245	1246	1245	1248	1247	1248	1249	1244	1234	1233	1234	1230	1234	1241	1245	1244	1245	1246	1246	1245	1250	1248	1248	1243							
28	d	1247	1245	1245	1244	1244	1238	1238	1225	1225	1223	1227	1234	1238	1244	1257	1260	1262	1257	1254	1253	1255	1256	1256	1255	1245							
29		1253	1253	1253	1253	1254	1252	1249	1248	1244	1243	1238	1237	1233	1240	1251	1257	1254	1251	1249	1249	1260	1257	1252	1253	1249							
30		1254	1255	1252	1249	1252	1256	1260	1260	1256	1249	1244	1243	1239	1245	1255	1258	1256	1251	1249	1249	1250	1251	1252	1251	1251							
31		1249	1249	1251	1251	1250	1250	1251	1251	1247	1240	1239	1240	1239	1241	1248	1255	1255	1251	1250	1251	1251	1252	1244	1238	1248							
Mean		1248	1247	1247	1248	1251	1251	1250	1249	1247	1244	1241	1238	1239	1244	1253	1259	1262	1263	1262	1260	1258	1256	1252	1249	1251							

DAILY EXTREMES OF TERRESTRIAL MAGNETIC ELEMENTS, MAGNETIC CHARACTER FIGURES AND TEMPERATURE IN MAGNET HOUSE

124		ESKDALEUIR																				AUGUST 1955		
		TERRESTRIAL MAGNETIC ELEMENTS															3-hr. range indices K	Sum of K indices	Magnetic character of day (0-2)	Temperature in magnet house 200 +				
		Horizontal force					Declination					Vertical force												
		Maximum 16,000γ +		Minimum 16,000γ +		Range	Maximum 10° +		Minimum 10° +		Range	Maximum 44,000γ +		Minimum 44,000γ +		Range								
		h. m.	γ	γ	h. m.	γ	h. m.	γ	h. m.	γ	h. m.	γ	h. m.	γ	h. m.	γ								
1	q	17 33	714	643	11 46	71	13 31	61.1	51.1	07 53	10.0	18 40	1267	1233	12 05	34	1,0,0,2,3,3,2,1	12	0	84.6				
2		20 34	713	656	10 40	57	14 20	60.9	49.8	05 36	11.1	17 20	1256	1233	12 25	23	2,2,0,0,1,1,2,2	10	0	84.7				
3		23 15	724	650	02 00	74	14 31	65.1	46.6	00 21	18.5	18 02	1266	1221	02 56	45	4,2,1,2,2,3,2,3	19	1	84.8				
4	d	17 05	729	577	12 11	152	14 18	69.9	41.0	22 03	28.9	18 02	1282	1232	05 57	50	2,3,3,4,4,4,4,4	28	1	84.8				
5	d	20 38	743	610	11 53	133	12 53	62.6	38.9	20 32	23.7	17 20	1280	1216	24 00	64	2,2,3,3,3,4,4,4	25	1	84.8				
6	d	17 03	791	612	08 47	179	14 03	68.5	38.5	22 20	30.0	16 50	1317	1216	00 00	101	3,3,3,4,3,5,3,5	29	1	84.9				
7	d	20 51	727	597	09 12	130	13 16	66.1	43.7	02 33	22.4	19 21	1286	1222	02 12	64	3,3,2,3,3,3,3,4	24	1	84.9				
8		18 13	706	619	10 28	87	12 55	62.7	49.4	08 19	13.3	18 06	1283	1245	12 48	38	2,1,1,3,3,2,2,2	16	0	85.0				
9		20 22	710	650	10 46	60	13 02	62.5	51.2	06 39	11.3	18 19	1268	1244	00 10	24	2,1,2,2,2,2,2,1	14	0	85.0				
10		22 46	698	646	10 36	52	12 41	63.5	50.6	05 59	12.9	17 50	1273	1238	12 39	35	1,2,0,1,3,2,1,2	12	0	85.0				
11	q	21 32	705	653	11 10	52	12 43	60.5	49.9	06 00	10.6	17 01	1266	1243	11 57	23	1,1,1,0,1,1,2,2	9	0	85.2				
12		01 05	702	655	10 57	47	13 01	60.4	48.7	06 16	11.7	20 13	1256	1227	10 41	29	2,1,2,2,2,1,1,1	12	0	85.2				
13		22 47	708	644	09 08	64	12 48	62.3	49.2	24 00	13.1	15 19	1253	1225	12 30	28	1,2,1,2,2,2,2,3	15	0	85.2				
14		17 21	724	649	11 04	75	14 03	61.6	48.1	20 40	13.5	18 20	1291	1232	02 09	59	3,2,1,2,2,3,3,3	19	0	85.2				
15		03 25	718	646	10 32	72	12 18	60.8	49.4	03 00	11.4	15 21	1265	1243	12 30	22	3,3,2,2,3,1,1,1	16	0	85.2				
16		20 03	696	643	12 56	53	13 18	61.1	52.0	07 56	9.1	17 20	1255	1238	06 59	17	0,2,3,1,2,1,1,1	11	0	85.2				
17		17 24	712	643	10 39	69	13 51	63.8	48.9	21 39	14.9	18 09	1268	1233	11 50	35	1,0,1,2,2,3,2,3	14	0	85.2				
18		19 13	701	636	11 12	65	14 19	62.3	50.9	23 20	11.4	20 06	1267	1236	10 57	31	1,2,3,2,2,2,3,2	17	0	85.4				
19		19 07	694	643	12 37	51	12 28	62.7	48.8	21 39	13.9	15 55	1260	1238	12 00	22	1,2,1,2,2,2,2,2	14	0	85.4				
20		18 05	704	624	10 42	80	13 04	61.8	48.9	07 12	12.9	16 18	1262	1231	11 36	31	1,0,0,2,2,2,2,0	9	0	85.4				
21		00 30	709	651	11 04	58	12 55	62.6	50.3	07 06	12.3	15 12	1261	1238	11 38	23	3,1,1,0,1,1,1,1	9	0	85.4				
22	q	21 36	697	656	09 20	41	13 35	63.1	50.9	06 15	12.2	15 30	1256	1229	12 11	27	0,1,1,1,1,1,2,1	8	0	85.4				
23	q	18 51	700	655	12 06	45	13 36	64.1	52.1	06 27	12.0	17 21	1254	1227	11 51	27	1,1,0,1,1,1,1,1	7	0	85.4				
24	q	19 51	706	647	11 46	59	13 27	62.9	50.2	07 19	12.7	18 00	1251	1236	11 13	15	0,1,1,3,2,2,1,1	11	0	85.4				
25	q	19 00	701	661	11 28	40	12 40	63.5	50.9	07 12	12.6	20 40	1260	1230	12 40	30	1,1,1,1,3,2,2,1	12	0	85.4				
26		20 34	698	650	08 36	48	13 36	63.1	51.2	06 02	11.9	16 29	1253	1226	11 24	27	1,1,1,3,3,3,2,2	16	0	85.4				
27		20 41	710	659	09 05	51	11 59	61.1	52.4	06 27	8.7	21 50	1253	1229	12 32	24	0,0,1,1,2,3,3,3	13	0	85.4				
28	d	03 11	694	610	08 06	84	12 56	64.1	46.9	06 35	17.2	16 48	1262	1220	07 43	42	1,3,4,3,3,1,2,2	19	1	85.6				
29		21 11	713	641	10 40	72	12 38	62.2	43.8	21 38	18.4	20 55	1267	1233	12 39	34	2,2,2,2,2,2,3,3	18	0	85.4				
30		16 19	695	639	10 15	56	12 49	60.5	50.3	08 00	10.2	06 40	1261	1238	12 21	23	1,1,1,2,1,3,2,2	13	0	85.4				
31		22 13	707	647	11 15	60	13 00	62.1	48.9	22 18	13.2	15 49	1256	1238	23 22	18	2,1,1,2,2,2,2,3	15	0	85.4				
Mean		- -	711	639 - -	72	- -	62.9	48.5 - -	14.4	- -	1266	1232 - -	34	-	-	-	-	0.19	-	85.2				

MAGNETIC DECLINATION (WEST)

Mean values for periods of sixty minutes ending at exact hours, G.M.T.

126		ESKDALEUIR (D)												10° +												SEPTEMBER 1955											
	Hour G.M.T.	0-1	1-2	2-3	3-4	4-5	5-6	6-7	7-8	8-9	9-10	10-11	11-12	12-13	13-14	14-15	15-16	16-17	17-18	18-19	19-20	20-21	21-22	22-23	23-24	Mean											
1		52·6	54·2	53·7	53·5	53·7	52·6	51·3	51·7	53·8	56·6	56·3	58·5	61·7	62·3	62·3	60·4	57·9	57·4	55·1	49·1	50·6	52·6	53·4	53·5	55·2											
2		52·6	55·2	59·0	55·8	49·5	53·1	52·9	53·7	53·7	55·6	60·2	63·2	64·3	63·5	61·7	59·2	56·7	55·3	54·7	54·9	54·0	54·6	54·1	51·7	56·2											
3		52·2	54·5	60·3	53·6	50·5	51·1	52·0	51·9	51·4	54·9	60·7	63·6	62·4	62·1	60·8	58·5	55·9	55·1	55·0	54·7	51·5	52·5	54·5	54·7	55·6											
4		50·7	52·2	52·7	55·6	53·8	50·8	50·8	50·6	51·4	54·7	60·4	62·1	63·6	63·2	63·4	60·7	56·1	54·5	54·9	55·6	54·3	47·5	51·3	50·1	55·0											
5 d		51·4	57·2	54·5	51·4	50·9	52·9	58·3	58·5	55·0	53·3	57·0	60·7	61·5	60·2	61·3	57·2	55·4	54·0	54·4	52·8	55·1	54·7	54·3	51·5	55·6											
6		52·6	53·6	53·4	56·8	56·6	54·3	53·2	52·7	53·8	56·7	57·7	59·7	60·2	59·3	58·8	57·2	55·5	55·7	54·1	48·0	51·8	54·6	54·8	55·9	55·3											
7		53·5	51·2	51·8	51·1	51·0	52·3	51·1	50·4	51·8	53·7	57·0	59·5	61·9	62·6	61·1	58·6	56·2	55·7	56·0	55·9	55·6	54·9	53·6	54·1	55·0											
8		54·2	54·0	54·4	54·6	53·6	52·5	52·0	51·8	51·9	52·4	55·4	59·3	63·0	63·9	62·1	59·3	57·0	56·6	56·4	56·3	55·9	55·4	54·1	51·8	55·7											
9		53·1	57·2	54·7	52·3	50·9	50·8	50·7	50·1	50·2	52·1	54·9	58·5	60·3	60·6	59·5	57·9	54·9	54·8	55·4	55·9	56·0	55·6	55·5	53·0	54·8											
10		53·6	53·8	55·0	53·7	53·5	54·2	53·3	53·8	54·8	56·3	58·7	59·0	59·9	59·3	58·1	56·7	55·9	56·3	55·5	55·7	55·2	55·3	54·5	54·5	55·7											
11 q		54·4	54·5	52·3	51·8	51·2	51·7	52·7	51·9	51·7	52·2	54·4	57·2	60·1	60·3	59·8	58·5	56·8	56·0	56·0	56·0	56·2	55·7	55·6	52·5	55·0											
12		50·3	52·3	52·9	50·5	53·7	53·0	54·5	59·8	53·2	52·7	55·1	57·9	61·8	61·5	59·1	56·3	52·7	52·4	54·1	55·4	55·4	55·2	54·9	58·8	55·1											
13 d		48·4	53·4	50·1	55·8	52·0	50·0	52·3	52·7	52·7	55·0	56·5	58·3	59·6	61·2	59·2	59·5	54·6	54·0	54·9	54·2	53·0	54·6	54·8	54·9	54·7											
14		54·8	54·2	53·7	53·4	53·1	52·3	52·8	54·3	56·0	55·0	57·6	58·9	61·0	62·4	60·4	57·9	56·4	56·2	56·3	55·9	54·9	53·1	54·3	54·5	55·8											
15 q		56·0	54·7	53·9	53·1	54·0	54·1	53·3	53·0	52·7	53·9	55·4	58·4	59·5	59·3	58·6	57·7	56·7	56·1	53·5	50·9	53·4	54·1	54·5	55·0	55·1											
16		55·0	52·9	51·3	53·5	53·1	51·8	53·2	52·1	51·8	53·8	55·9	59·8	62·9	63·3	62·5	60·3	57·2	56·3	55·9	55·5	55·1	54·2	51·3	49·4	55·3											
17		50·2	53·1	55·8	53·7	58·4	57·9	56·8	58·6	55·3	55·7	56·3	60·2	61·2	60·4	59·9	58·5	56·3	55·2	54·6	53·2	51·7	50·9	49·4	51·6	55·6											
18		53·5	54·3	55·0	53·5	50·5	50·9	52·0	52·1	52·9	54·5	57·0	59·5	62·1	60·9	61·0	60·4	57·5	56·7	55·6	54·7	54·5	50·5	54·8	54·9	55·6											
19		55·4	54·3	54·8	54·4	53·1	52·1	51·9	51·6	51·2	52·1	55·3	57·8	60·6	61·9	61·3	59·0	56·1	55·7	55·7	55·2	54·5	54·0	54·4	53·2	55·2											
20		47·3	52·0	54·3	55·9	53·6	52·6	52·3	52·4	52·9	56·6	57·0	58·9	60·8	61·0	60·0	58·3	57·1	56·9	56·5	56·1	55·2	55·3	52·6	53·5	55·4											
21 q		54·4	53·9	54·1	54·8	53·9	53·5	52·6	51·4	51·3	52·1	54·0	56·7	58·5	59·1	58·5	57·1	56·2	56·0	55·9	55·2	55·0	54·4	54·8	55·3	54·9											
22		56·9	50·4	48·6	45·8	50·9	52·6	52·3	51·6	51·4	52·5	54·7	57·3	59·2	60·1	59·5	58·0	57·7	56·4	56·7	56·8	56·9	55·7	54·5	54·4	54·6											
23		54·5	53·6	53·3	53·5	53·2	52·3	53·6	53·9	52·4	57·2	59·7	58·5	59·5	60·5	59·9	58·2	57·9	57·3	55·9	55·8	54·9	51·2	55·1	51·8	55·6											
24		53·6	50·5	51·9	52·3	52·9	52·6	51·8	50·6	51·2	53·1	55·4	58·1	59·1	59·7	58·9	57·5	56·8	55·4	52·3	56·2	56·5	56·2	55·1	54·8	54·7											
25 q		54·4	55·4	54·1	53·5	53·1	53·2	52·8	52·3	52·5	52·7	54·4	56·2	57·7	58·5	58·4	57·4	56·6	55·5	55·9	56·0	55·9	54·3	53·8	54·1	54·9											
26 q		53·5	53·6	54·1	53·4	53·2	53·0	52·6	51·8	51·8	52·3	54·6	56·9	57·7	58·0	57·9	58·1	57·9	57·2	57·2	56·9	56·6	56·2	55·3	54·1	55·2											
27 d		53·6	54·4	54·5	51·8	49·2	51·2	51·7	51·9	51·3	53·5	57·2	59·1	61·1	62·0	60·9	61·3	55·4	52·6	49·5	52·8	49·0	52·9	52·7	54·0	54·3											
28		52·7	54·9	53·6	53·6	56·4	54·0	60·9	58·2	57·3	55·0	56·8	56·5	58·3	59·7	58·5	57·6	56·4	55·2	49·5	43·0	50·9	52·2	51·9	50·8	54·7											
29 d		49·5	51·3	54·2	50·9	52·1	52·2	52·6	53·0	52·2	51·4	52·0	54·0	55·9	58·1	60·8	62·0	61·0	58·7	53·4	54·9	51·5	46·0	45·9	45·5	53·3											
30 d		45·4	54·1	52·7	53·1	55·3	68·3	78·2	63·1	55·9	54·2	55·0	56·8	59·9	58·9	58·0	56·8	52·1	50·3	45·4	42·9	40·6	43·3	49·8	48·5	54·1											
Mean		52·7	53·7	53·8	53·2	52·9	53·1	53·9	53·4	52·9	54·1	56·4	58·7	60·5	60·8	60·1	58·5	56·4	55·5	54·5	53·9	53·7	53·4	53·5	53·1	55·1											

TERRESTRIAL MAGNETIC FORCE: VERTICAL COMPONENT
Mean values for periods of sixty minutes ending at exact hours, G.M.T.

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127 ESKDALEMUIR (Z)			44,000γ (0.44 C.G.S. unit) +																				SEPTEMBER 1955				
	Hour G.M.T.		2-3	3-4	4-5	5-6	6-7	7-8	8-9	9-10	10-11	11-12	12-13	13-14	14-15	15-16	16-17	17-18	18-19	19-20	20-21	21-22	22-23	23-24	Mean		
	0-1	1-2																									
	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ			
1	1241	1244	1246	1248	1248	1250	1254	1256	1255	1251	1241	1238	1234	1242	1253	1262	1268	1268	1269	1264	1251	1255	1256	1255	1252		
2	1250	1243	1229	1207	1216	1222	1226	1236	1242	1242	1244	1244	1246	1252	1262	1271	1272	1272	1267	1263	1260	1256	1251	1249	1247		
3	1247	1246	1232	1229	1238	1244	1248	1251	1249	1239	1234	1243	1249	1247	1253	1257	1257	1255	1253	1255	1256	1254	1250	1247	1247		
4	1217	1221	1235	1234	1232	1243	1244	1248	1247	1248	1243	1244	1244	1247	1258	1273	1271	1268	1264	1260	1257	1246	1238	1237	1247		
5 d	1218	1208	1211	1235	1243	1243	1225	1224	1228	1238	1243	1242	1255	1267	1268	1270	1273	1278	1272	1261	1256	1256	1254	1251	1247		
6	1242	1240	1244	1244	1233	1234	1244	1250	1248	1241	1244	1248	1251	1252	1256	1262	1263	1263	1270	1272	1264	1257	1255	1243	1251		
7	1232	1233	1238	1249	1251	1253	1256	1260	1257	1255	1249	1245	1245	1244	1245	1251	1255	1253	1251	1253	1254	1256	1256	1255	1250		
8	1252	1253	1250	1250	1251	1253	1255	1256	1253	1247	1241	1238	1239	1242	1252	1265	1276	1273	1262	1256	1256	1256	1255	1248	1253		
9	1250	1244	1234	1236	1244	1249	1251	1252	1250	1248	1244	1240	1240	1244	1248	1251	1256	1256	1254	1252	1253	1251	1251	1252	1248		
10	1251	1250	1249	1249	1249	1248	1247	1248	1244	1245	1250	1247	1244	1245	1254	1258	1256	1253	1253	1253	1253	1253	1254	1252	1250		
11 q	1250	1247	1244	1245	1247	1249	1249	1248	1250	1251	1251	1250	1248	1248	1247	1250	1254	1253	1252	1253	1253	1254	1252	1252	1250		
12	1249	1244	1245	1245	1245	1244	1250	1237	1241	1245	1245	1246	1248	1260	1266	1270	1272	1267	1258	1256	1254	1254	1254	1252	1252		
13 d	1230	1216	1209	1202	1210	1219	1230	1243	1250	1249	1249	1251	1252	1255	1273	1286	1299	1294	1282	1274	1271	1263	1260	1257	1251		
14	1256	1256	1255	1255	1255	1255	1255	1251	1248	1248	1246	1247	1245	1247	1255	1263	1259	1255	1253	1255	1256	1256	1255	1255	1253		
15 q	1251	1249	1250	1250	1250	1250	1250	1250	1250	1249	1245	1242	1243	1244	1249	1250	1251	1253	1257	1259	1255	1255	1255	1253	1250		
16	1251	1243	1240	1244	1246	1248	1249	1250	1249	1248	1249	1248	1245	1250	1260	1263	1262	1259	1256	1254	1252	1255	1256	1251	1251		
17	1243	1244	1240	1238	1225	1218	1223	1225	1231	1239	1238	1237	1246	1254	1256	1259	1260	1256	1256	1260	1262	1262	1259	1250	1245		
18	1250	1247	1243	1241	1243	1245	1246	1248	1250	1250	1247	1245	1251	1256	1258	1263	1268	1271	1274	1267	1260	1256	1254	1253	1254		
19	1249	1240	1243	1244	1245	1248	1249	1250	1250	1250	1249	1246	1248	1250	1258	1262	1262	1261	1257	1256	1256	1256	1255	1252	1251		
20	1240	1240	1245	1243	1245	1248	1249	1250	1250	1250	1248	1245	1244	1244	1245	1249	1249	1250	1250	1250	1255	1251	1249	1250	1247		
21 q	1249	1250	1250	1250	1250	1251	1253	1253	1251	1247	1242	1238	1240	1244	1245	1248	1249	1249	1250	1252	1253	1252	1251	1249	1249		
22	1237	1242	1227	1233	1240	1244	1246	1248	1245	1240	1235	1233	1234	1236	1239	1243	1245	1247	1246	1250	1253	1259	1256	1252	1243		
23	1250	1248	1250	1250	1249	1249	1248	1248	1250	1247	1245	1245	1244	1244	1248	1252	1256	1263	1270	1276	1266	1261	1235	1226	1251		
24	1216	1216	1232	1240	1244	1248	1253	1256	1253	1249	1243	1238	1238	1240	1244	1248	1251	1258	1265	1260	1255	1253	1252	1252	1246		
25 q	1252	1249	1245	1245	1247	1250	1251	1252	1252	1249	1243	1237	1234	1234	1241	1247	1250	1251	1251	1251	1250	1249	1249	1249	1247		
26 q	1250	1250	1248	1248	1249	1250	1251	1251	1250	1245	1242	1238	1236	1238	1240	1244	1244	1245	1246	1248	1248	1249	1250	1250	1246		
27 d	1250	1249	1240	1234	1232	1233	1234	1238	1240	1243	1238	1237	1239	1245	1251	1258	1278	1281	1287	1272	1272	1244	1250	1249	1250		
28	1244	1244	1246	1243	1223	1216	1220	1228	1237	1244	1247	1248	1251	1256	1257	1260	1260	1263	1271	1273	1264	1259	1251	1243	1238		
29 d	1240	1234	1222	1232	1237	1239	1244	1246	1249	1250	1248	1248	1246	1245	1250	1262	1285	1312	1309	1299	1290	1271	1256	1249	1257		
30 d	1244	1230	1243	1250	1245	1217	1187	1204	1233	1241	1250	1268	1267	1281	1274	1279	1283	1280	1279	1268	1256	1252	1235	1221	1249		
Mean	1243	1241	1239	1240	1241	1242	1243	1245	1247	1246	1244	1244	1245	1248	1253	1259	1263	1264	1263	1261	1258	1255	1252	1249	1249		

DAILY EXTREMES OF TERRESTRIAL MAGNETIC ELEMENTS, MAGNETIC CHARACTER FIGURES AND TEMPERATURE IN MAGNET HOUSE

128 ESKDALEMUIR												SEPTEMBER 1955			
	TERRESTRIAL MAGNETIC ELEMENTS										3-hr. range indices K	Sum of K indices	Magnetic character of day (0-2)	Temperature in magnet house 200 + °A.	
	Horizontal force			Declination			Vertical force								
	Maximum 16,000γ +	Minimum 16,000γ +	Range	Maximum 10° +	Minimum 10° +	Range	Maximum 44,000γ +	Minimum 44,000γ +	Range						
	h. m. γ	γ h. m.	γ	h. m. °	° h. m.	°	h. m. γ	γ h. m.	γ						
1	19 54 726	639 08 45	87	14 13 63.9	37.5 19 49	26.4	17 46 1271	1234 12 30	37	1,1,3,3,3,3,4,2	20	1	85.4		
2	03 37 707	603 11 21	104	12 12 64.6	47.9 04 25	16.7	15 42 1275	1206 03 38	69	3,4,2,3,3,3,2,2	22	1	85.4		
3	20 58 701	587 10 57	114	11 55 65.3	49.8 05 02	15.5	16 12 1259	1224 03 02	35	3,3,3,4,3,2,2,2	22	1	85.4		
4	00 31 753	596 10 04	157	12 45 64.5	40.3 21 23	24.2	15 41 1276	1206 00 40	70	4,3,3,3,3,3,2,4	25	1	85.4		
5 d	19 19 717	603 09 36	114	12 17 64.2	46.3 00 14	17.9	17 32 1279	1198 02 00	81	4,3,3,3,3,3,3,2	24	1	85.5		
6	23 46 698	615 10 58	83	12 58 61.1	44.2 19 36	16.9	19 35 1274	1232 24 00	42	2,2,3,2,1,3,3,3	19	1	85.5		
7	20 52 690	616 09 44	74	13 26 63.2	49.7 07 53	13.5	07 32 1262	1230 00 20	32	3,2,3,3,2,2,1,1	17	0	85.5		
8	23 09 707	627 10 49	80	13 51 64.5	50.9 23 58	13.6	16 43 1279	1238 11 27	41	1,1,0,3,3,3,1,3	15	0	85.4		
9	19 58 692	635 10 20	57	12 54 60.9	49.4 08 29	11.5	16 50 1258	1232 03 10	26	3,2,2,2,2,2,1,2	16	0	85.4		
10	00 30 684	644 11 40	40	12 13 60.5	53.0 06 25	7.5	15 24 1260	1243 12 54	17	1,1,2,2,1,2,2,1	12	0	85.4		
11 q	22 44 700	649 11 50	51	13 04 61.2	50.3 23 56	10.9	23 50 1255	1242 02 11	13	2,1,1,1,2,2,2,2	13	0	85.4		
12	24 00 716	618 11 19	98	07 11 64.4	42.3 23 53	22.1	15 50 1273	1233 07 33	40	3,3,4,3,3,2,2,4	24	1	85.4		
13 d	00 01 717	601 10 36	116	13 30 62.2	46.1 00 17	16.1	16 44 1303	1197 03 34	106	4,3,3,3,3,4,2,1	23	1	85.4		
14	03 06 681	616 11 05	65	13 40 62.8	51.7 21 26	11.1	15 22 1265	1244 13 12	21	0,2,2,2,2,2,1,2	13	0	85.4		
15 q	19 14 694	648 10 30	46	13 02 59.9	47.2 19 06	12.7	19 00 1262	1241 12 01	21	2,1,0,1,2,2,3,2	13	0	85.4		
16	00 47 708	623 10 36	85	12 59 63.8	47.9 23 12	15.9	15 15 1264	1238 02 04	26	3,2,2,2,2,1,1,2	15	0	85.4		
17	05 15 707	643 12 15	64	11 55 62.5	48.5 22 36	14.0	20 12 1263	1216 05 24	47	3,3,3,2,2,2,2,2	19	1	85.4		
18	02 29 691	633 13 20	58	13 00 63.0	50.0 04 30	13.0	18 14 1276	1240 03 40	36	2,2,2,2,2,3,2,1	16	0	85.4		
19	24 00 704	622 11 30	82	14 29 62.3	50.4 07 27	11.9	15 20 1263	1236 01 30	27	2,2,2,2,2,1,1,2	14	0	85.4		
20	21 51 705	640 09 09	65	13 04 61.4	46.0 00 19	15.4	22 04 1256	1238 01 24	18	3,2,2,3,1,2,2,2	17	0	85.4		
21 q	24 00 698	640 09 56	58	13 15 59.5	50.8 08 29	8.7	07 10 1255	1237 11 51	18	1,1,1,2,1,1,1,3	11	0	85.4		
22	02 30 713	647 12 19	66	13 46 60.9	43.1 02 54	17.8	21 50 1260	1221 02 34	39	4,3,0,1,2,1,2,2	15	1	85.4		
23	04 44 695	630 09 03	65	13 02 62.6	48.8 20 43	13.8	19 16 1281	1222 23 46	59	1,1,3,3,3,2,3,3	19	1	85.4		
24	01 05 705	648 10 09	57	13 39 60.4	49.1 00 07	11.3	18 23 1266	1210 01 09	56	3,1,1,2,2,2,3,0	14	0	85.4		
25 q	21 37 701	645 11 35	56	13 37 58.7	51.8 07 36	6.9	07 56 1253	1233 12 31	20	1,0,1,1,1,1,0,2	7	0	85.4		
26 q	20 12 694	652 12 01	42	12 42 58.2	51.7 07 40	6.5	07 20 1251	1235 12 40	16	1,0,0,1,2,1,1,1	7	0	85.4		
27 d	20 49 734	621 11 53	113	13 15 63.1	37.1 18 35	26.0	18 32 1307	1230 04 17	77	2,2,3,3,3,4,5,4	26	1	85.4		
28	04 08 704	637 14 06	67	06 34 62.4	39.2 18 57	23.2	18 52 1279	1216 05 41	63	2,3,3,3,3,2,4,3	23	1	85.4		
29 d	17 48 735	631 18 29	104	15 34 64.2	38.5 22 54	25.7	17 57 1359	1217 02 29	142	3,2,2,2,2,4,4,4	23	1	85.4		
30 d	23 36 723	577 11 46	146	06 08 81.5	37.3 20 09	44.2	13 36 1287	1180 06 26	107	4,5,5,4,4,4,4,4	34	1	85.4		
Mean	- - 707	626 - -	81	- - 62.9	46.6 - -	16.4	- - 1272	1226 - -	47	-	-	0.50	85.4		

OCTOBER 1955

	Hour G.M.T.																								OCTOBER 1955											
	0-1	1-2	2-3	3-4	4-5	5-6	6-7	7-8	8-9	9-10	10-11	11-12	12-13	13-14	14-15	15-16	16-17	17-18	18-19	19-20	20-21	21-22	22-23	23-24	Mean											
1	661	659	662	664	666	670	666	660	651	647	627	640	650	653	653	668	672	674	676	671	685	678	677	677	663											
2	680	673	671	679	679	678	679	668	653	640	643	639	639	635	646	647	659	671	653	670	685	673	673	675	663											
3	672	672	658	653	677	688	664	676	652	642	643	632	651	660	664	668	648	660	672	678	677	675	672	677	664											
4	680	676	678	665	676	689	686	671	657	649	609	620	639	647	651	660	667	672	674	672	667	673	670	679	666											
5 d	679	676	674	671	679	677	681	677	660	647	628	640	622	630	653	647	683	653	647	702	630	640	637	651	658											
6 d	660	659	639	665	681	671	670	664	628	603	611	626	640	643	645	655	657	671	660	664	663	670	669	671	654											
7	669	667	665	667	669	674	672	664	655	636	632	630	632	651	665	671	668	674	681	680	677	681	674	693	664											
8	688	694	692	696	700	694	696	683	679	665	651	645	651	656	665	671	678	679	692	688	689	688	679	677	679											
9	676	673	678	675	679	679	683	680	665	669	644	641	647	657	667	674	681	685	687	685	685	708	713	678	675											
10	672	676	681	679	681	694	695	693	681	643	643	642	641	628	658	660	664	664	683	683	682	685	683	681	671											
11	680	680	679	677	679	679	674	665	637	633	626	630	629	637	660	656	659	666	674	676	677	679	679	677	663											
12 q	677	676	675	676	677	676	676	676	671	662	656	653	655	660	662	665	670	673	677	680	679	678	673	676	671											
13 q	676	677	677	678	679	681	682	681	677	669	660	656	658	662	665	668	670	673	675	671	661	672	680	679	672											
14	679	680	680	681	681	684	691	685	679	677	668	668	670	666	669	672	676	680	677	681	681	683	685	681	678											
15	680	680	681	679	686	687	685	683	678	668	662	662	668	672	675	673	675	679	682	685	686	685	685	680	678											
16	670	671	675	678	683	686	686	677	670	664	664	665	670	675	681	679	683	690	694	694	693	689	688	685	680											
17	685	678	685	688	685	690	691	691	690	681	674	669	668	672	676	680	685	689	696	692	692	692	692	689	685											
18 q	685	685	684	684	684	683	680	676	668	660	659	664	674	681	685	687	688	688	689	688	688	689	689	688	681											
19 q	685	684	685	685	687	685	683	678	670	661	657	663	673	682	686	685	688	690	689	691	691	688	690	690	682											
20	688	689	685	689	690	688	688	686	671	655	662	668	680	675	676	670	664	674	680	677	678	683	680	682	678											
21	681	681	681	682	682	680	679	676	668	664	661	661	665	675	677	675	675	675	677	680	673	675	681	673	676											
22	677	676	679	684	685	686	685	684	680	664	658	658	661	658	660	663	660	666	663	674	686	685	684	684	673											
23	682	685	681	678	680	681	684	677	666	659	656	660	652	664	674	681	679	683	682	687	689	689	688	686	677											
24 q	686	684	684	685	687	688	689	685	680	669	661	659	665	668	673	678	684	688	691	690	693	689	686	682	681											
25 d	666	694	675	678	701	701	702	666	651	660	615	627	627	622	624	637	621	613	623	641	687	651	642	672	654											
26 d	624	625	653	633	621	654	651	648	645	627	628	604	652	648	652	655	658	657	636	638	662	658	673	666	645											
27	662	664	659	650	661	665	662	661	647	652	651	647	657	656	654	647	653	660	665	661	679	678	666	666	659											
28	666	663	665	662	666	668	673	667	665	650	642	644	647	646	653	651	662	665	665	670	673	666	670	669	661											
29	671	670	670	678	679	669	664	665	667	658	657	657	651	657	664	660	658	655	662	658	665	678	665	670	665											
30	669	670	671	672	673	673	670	668	665	662	657	656	653	663	670	672	676	649	649	657	654	670	669	669	665											
31 d	670	682	681	688	693	676	659	667	666	664	668	668	674	663	662	668	658	679	670	664	661	614	640	646	666											
Mean	674	675	674	675	679	681	679	674	665	655	648	648	654	657	663	666	668	671	672	676	677	676	676	676	666											

MAGNETIC DECLINATION (WEST)
Mean values for periods of sixty minutes ending at exact hours, G.M.T.

OCTOBER 1955

		Hour G.M.T.																																				
		0-1	1-2	2-3	3-4	4-5	5-6	6-7	7-8	8-9	9-10	10-11	11-12	12-13	13-14	14-15	15-16	16-17	17-18	18-19	19-20	20-21	21-22	22-23	23-24	Mean												
1		52.4	52.5	52.9	53.6	53.8	53.6	53.0	52.3	52.1	52.5	53.3	55.7	58.2	59.9	59.2	58.7	57.7	56.3	55.8	54.3	53.3	53.0	53.2	53.1	54.6												
2		54.5	54.5	54.9	54.8	53.7	54.1	53.6	52.5	52.8	52.8	52.8	57.0	60.3	61.2	62.2	56.3	59.0	48.1	53.6	47.8	50.4	54.5	52.7	52.8	54.4												
3		54.5	55.6	55.9	58.9	56.0	54.2	54.3	53.9	54.9	55.8	57.1	58.6	59.8	60.8	61.8	59.1	53.2	54.6	56.1	55.6	54.8	54.4	53.7	53.6	56.2												
4		53.0	52.8	52.4	54.2	57.0	55.7	54.5	52.6	50.5	52.5	56.2	59.2	61.0	61.9	60.9	58.7	57.7	55.5	54.8	54.5	52.9	52.8	52.5	51.8	55.2												
5	d	52.4	53.5	54.1	54.1	54.2	53.3	52.3	51.0	49.7	50.7	53.0	58.2	60.4	62.0	62.7	57.0	57.1	54.9	54.8	50.0	48.9	43.2	36.8	50.1	53.1												
6	d	52.1	53.8	59.8	59.0	53.7	54.9	53.7	51.8	50.7	52.7	55.4	57.4	59.4	61.3	61.9	60.2	55.8	54.9	57.3	55.4	53.1	52.7	53.5	53.1	55.6												
7		52.1	52.5	52.9	55.1	54.4	53.5	53.1	52.2	50.9	50.8	54.2	58.1	62.2	64.3	62.8	61.6	58.7	56.6	56.8	55.8	55.3	55.3	52.1	53.1	55.6												
8		54.1	55.0	54.2	54.4	54.4	53.6	53.6	53.9	53.4	52.5	54.2	57.4	60.2	60.3	60.1	58.1	56.5	56.3	57.1	56.7	56.0	55.4	53.8	52.9	55.6												
9		53.9	53.1	52.3	52.8	53.1	53.1	53.1	52.3	51.1	50.6	52.9	55.6	58.1	58.9	59.3	58.2	57.6	57.7	57.0	56.2	55.3	47.3	44.6	46.3	53.8												
10		48.3	53.1	53.4	52.3	53.7	52.5	53.3	52.6	51.3	51.8	55.3	56.0	61.0	58.1	59.0	58.6	56.1	49.7	53.5	54.9	54.5	54.1	53.4	53.7	54.2												
11		54.2	54.1	54.0	54.5	54.7	54.1	54.3	55.0	53.4	55.2	56.6	58.5	60.0	58.8	56.8	56.3	51.5	54.1	52.6	53.5	54.3	54.3	54.3	54.2	55.0												
12	q	54.3	54.3	54.1	54.0	53.8	53.5	53.1	52.6	50.9	50.3	51.8	54.3	56.6	57.4	57.2	56.3	55.2	54.2	54.2	53.9	54.2	54.5	54.4	54.6	54.2												
13	q	54.8	54.0	54.2	54.5	54.4	54.1	53.6	52.3	50.5	50.4	53.0	56.3	58.1	58.2	57.7	56.2	54.9	54.8	54.1	54.2	52.2	53.0	54.2	54.3	54.3												
14		53.1	54.4	54.9	54.6	54.3	54.2	55.0	55.0	55.4	54.6	56.2	58.2	59.4	59.2	57.7	56.5	55.9	55.0	54.1	55.0	54.1	53.9	52.7	53.2	55.3												
15		53.5	53.6	53.7	54.7	53.9	53.5	53.7	53.3	52.3	52.3	54.0	55.8	57.9	58.2	58.1	57.7	57.9	56.3	55.9	55.2	55.3	55.2	55.0	49.6	54.9												
16		46.5	50.6	52.6	53.4	54.0	53.7	54.1	53.5	52.4	51.3	53.1	55.7	57.4	58.3	58.6	57.0	56.1	55.9	55.6	55.3	54.9	55.3	52.5	53.4	54.2												
17		53.5	53.0	53.6	52.6	52.5	53.0	52.9	52.6	52.1	51.9	53.3	55.5	57.3	57.8	58.0	57.1	56.2	55.9	55.9	55.4	55.3	55.2	55.1	54.9	54.6												
18	q	54.8	54.8	54.5	54.9	55.2	55.3	54.7	54.1	53.1	52.0	53.6	56.2	57.8	58.4	58.0	56.7	56.4	56.0	55.4	54.9	54.6	54.3	54.1	53.8	55.1												
19	q	53.7	54.1	54.0	54.3	54.3	54.1	53.8	53.0	51.8	52.1	54.7	58.1	60.0	59.9	58.5	56.6	55.5	55.6	55.2	55.1	54.8	54.4	54.2	54.1	55.1												
20		53.7	53.5	53.1	53.9	53.2	52.8	53.3	52.5	53.5	55.7	57.5	59.4	61.0	61.1	60.9	60.2	58.2	56.9	55.9	54.9	53.8	53.8	53.8	53.9	55.7												
21		53.8	53.7	53.8	53.9	54.2	53.7	53.7	53.9	52.9	53.3	55.4	57.7	59.2	59.3	58.9	57.4	57.0	56.7	55.7	54.8	54.5	50.0	50.4	51.5	54.8												
22		52.6	52.8	53.5	53.7	53.5	53.5	53.7	52.8	52.3	52.3	55.0	57.0	60.3	62.1	63.1	60.2	59.5	57.7	56.2	54.1	54.1	54.0	53.9	53.9	55.5												
23		53.1	54.2	51.4	53.1	53.9	54.1	53.6	52.5	51.8	52.2	53.9	57.8	59.0	58.6	58.8	57.9	57.0	56.3	55.6	55.7	55.2	54.5	53.9	53.8	54.9												
24	q	53.9	53.8	54.0	54.3	54.3	54.2	53.7	53.0	52.1	51.5	52.3	56.0	58.6	58.5	57.9	57.1	56.5	56.3	56.1	55.5	55.4	55.1	54.2	52.1	54.9												
25	d	49.7	52.5	44.0	47.9	49.4	51.3	54.5	55.7	57.2	56.8	56.6	64.3	65.3	67.1	68.8	66.3	47.3	44.6	52.5	46.3	45.4	51.8	47.8	51.4	53.9												
26	d	54.4	46.9	48.7	50.4	54.5	52.8	53.1	51.2	50.8	50.9	54.4	55.7	57.0	60.8	57.1	57.9	49.1	41.0	39.2	41.5	51.7	51.6	54.4	54.3	51.6												
27		52.9	53.0	54.1	55.8	54.7	54.1	53.6	53.3	53.7	55.5	57.6	58.5	59.1	59.2	57.7	54.8	30.0	50.9	53.9	52.2	49.8	52.6	53.0	54.3													
28		52.8	53.4	53.4	53.5	53.6	52.9	52.8	52.9	53.3	54.5	56.9	59.0	60.1	60.3	59.8	56.5	55.3	53.8	53.6	53.6	53.5	51.6	52.5	52.5	54.7												
29		53.6	53.6	53.9	54.3	51.7	51.9	52.6	52.8	53.0	52.9	54.2	57.5	57.4	57.9	58.5	57.3	57.2	55.4	50.3	51.4	51.2	51.5	50.3	53.6	53.9												
30		53.5	53.6	53.9	53.5	53.6	53.3	52.9	52.8	52.2	52.0	54.4	57.9	58.5	58.5	58.1	56.7	55.7	50.0	49.0	49.1	50.3	52.6	53.5	53.7	53.7												
31	d	53.9	56.2	54.6	54.5	54.2	53.3	53.9	55.6	54.8	53.1	55.5	57.1	60.2	62.1	63.4	64.8	61.6	58.3	58.1	54.9	41.8	40.0	44.2	49.0	54.8												
Mean		53.0	53.4	53.5	54.1	53.9	53.6	53.6	53.1	52.5	52.7	54.7	57.4	59.4	60.0	59.8	58.2	55.9	54.2	54.4	53.5	53.0	52.5	52.1	52.7	54.6												

TERRESTRIAL MAGNETIC FORCE: VERTICAL COMPONENT
Mean values for periods of sixty minutes ending at exact hours, G.M.T.

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131 ESKDALEUIR (Z)		44,000γ (0.44 C.G.S. unit) +												OCTOBER 1955												
	Hour G.M.T.	0-1	1-2	2-3	3-4	4-5	5-6	6-7	7-8	8-9	9-10	10-11	11-12	12-13	13-14	14-15	15-16	16-17	17-18	18-19	19-20	20-21	21-22	22-23	23-24	Mean
		γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ
1		1225	1244	1251	1254	1255	1255	1257	1260	1261	1261	1258	1257	1256	1254	1257	1257	1256	1256	1259	1262	1257	1257	1256	1256	1255
2		1250	1248	1247	1245	1247	1249	1251	1255	1256	1260	1256	1250	1248	1250	1264	1278	1282	1292	1282	1276	1253	1252	1256	1255	1258
3		1252	1252	1247	1240	1244	1246	1249	1251	1256	1259	1256	1255	1252	1253	1259	1271	1280	1281	1268	1262	1261	1259	1260	1257	1257
4		1255	1251	1245	1247	1243	1240	1244	1251	1256	1254	1251	1250	1249	1251	1257	1262	1262	1262	1261	1262	1262	1261	1256	1252	1253
5 d		1245	1248	1250	1251	1250	1253	1255	1256	1256	1253	1250	1240	1245	1250	1254	1274	1285	1294	1304	1271	1245	1248	1220	1233	1255
6 d		1241	1248	1243	1223	1234	1242	1252	1259	1264	1267	1262	1257	1254	1254	1264	1283	1293	1291	1279	1274	1272	1266	1262	1258	1260
7		1254	1252	1253	1255	1257	1258	1260	1262	1262	1262	1256	1251	1250	1251	1256	1263	1267	1265	1262	1262	1262	1258	1261	1253	1258
8		1253	1252	1255	1252	1250	1251	1252	1256	1254	1251	1249	1245	1243	1244	1248	1253	1256	1256	1255	1254	1255	1256	1258	1257	1252
9		1256	1256	1254	1253	1253	1253	1252	1256	1261	1261	1255	1249	1245	1244	1245	1252	1256	1256	1256	1257	1260	1255	1238	1228	1252
10		1234	1242	1246	1250	1251	1249	1248	1250	1251	1255	1251	1249	1247	1253	1257	1267	1272	1272	1265	1262	1260	1257	1256	1256	1254
11		1256	1255	1255	1255	1255	1255	1255	1256	1259	1262	1260	1256	1258	1265	1280	1280	1283	1272	1267	1262	1261	1259	1259	1259	1262
12 q		1258	1257	1257	1256	1256	1256	1256	1256	1256	1256	1254	1250	1243	1243	1245	1251	1253	1257	1256	1256	1256	1257	1257	1257	1254
13 q		1257	1256	1256	1255	1256	1255	1255	1256	1257	1256	1251	1245	1246	1249	1254	1259	1261	1259	1258	1260	1263	1262	1258	1257	1256
14		1254	1252	1251	1249	1250	1250	1247	1246	1246	1245	1242	1242	1245	1249	1253	1257	1257	1256	1257	1257	1256	1257	1256	1255	1251
15		1256	1256	1255	1255	1251	1251	1251	1252	1254	1249	1245	1239	1237	1240	1245	1250	1253	1251	1250	1251	1251	1251	1252	1247	1250
16		1247	1246	1248	1248	1248	1248	1247	1252	1254	1255	1249	1245	1244	1244	1245	1249	1251	1250	1250	1250	1251	1252	1254	1255	1249
17		1254	1254	1248	1245	1246	1245	1245	1245	1244	1248	1245	1244	1240	1244	1246	1252	1255	1254	1255	1254	1252	1252	1251	1250	1249
18 q		1250	1250	1251	1250	1249	1248	1247	1247	1250	1251	1245	1242	1243	1245	1250	1251	1251	1250	1250	1250	1250	1251	1251	1252	1249
19 q		1252	1252	1252	1251	1250	1250	1250	1251	1252	1248	1242	1238	1238	1243	1248	1252	1251	1250	1250	1250	1249	1250	1250	1251	1249
20		1252	1252	1253	1249	1248	1248	1249	1250	1251	1251	1247	1244	1247	1252	1257	1262	1262	1262	1262	1262	1262	1257	1256	1256	1254
21		1255	1255	1254	1253	1253	1253	1253	1251	1251	1251	1247	1242	1244	1247	1250	1255	1257	1259	1260	1259	1261	1262	1257	1254	1253
22		1253	1253	1254	1253	1253	1252	1251	1254	1253	1253	1248	1247	1247	1251	1260	1267	1272	1273	1278	1273	1265	1260	1256	1255	1258
23		1250	1246	1246	1249	1251	1252	1254	1257	1259	1255	1250	1247	1249	1249	1253	1257	1258	1257	1257	1256	1256	1255	1255	1254	1253
24 q		1253	1252	1252	1251	1251	1251	1251	1253	1254	1252	1248	1244	1244	1245	1249	1254	1253	1252	1251	1251	1251	1252	1253	1254	1251
25 d		1252	1222	1220	1225	1222	1225	1227	1228	1229	1234	1244	1253	1277	1315	1300	1313	1352	1342	1328	1307	1244	1229	1249	1220	1261
26 d		1180	1209	1233	1229	1214	1235	1248	1260	1262	1267	1266	1275	1270	1270	1280	1276	1289	1286	1287	1268	1235	1244	1243	1235	1253
27		1247	1252	1255	1254	1249	1251	1255	1257	1262	1262	1260	1260	1262	1266	1272	1274	1280	1277	1271	1271	1264	1255	1259	1261	1261
28		1258	1260	1258	1259	1259	1260	1260	1262	1261	1261	1260	1262	1268	1273	1281	1280	1275	1271	1268	1266	1266	1267	1265	1264	1265
29		1262	1262	1262	1257	1253	1253	1255	1256	1256	1257	1256	1256	1262	1264	1266	1274	1270	1275	1281	1274	1269	1265	1259	1259	1263
30		1262	1262	1262	1261	1260	1259	1259	1259	1257	1256	1251	1252	1259	1259	1260	1262	1263	1275	1280	1275	1273	1268	1266	1266	1263
31 d		1262	1254	1238	1227	1220	1227	1233	1247	1251	1251	1249	1250	1256	1264	1275	1280	1279	1275	1276	1285	1291	1274	1260	1255	1257
Mean		1249	1250	1250	1248	1248	1249	1251	1253	1255	1255	1252	1249	1251	1254	1259	1265	1269	1269	1267	1264	1259	1256	1255	1253	1255

DAILY EXTREMES OF TERRESTRIAL MAGNETIC ELEMENTS, MAGNETIC CHARACTER FIGURES AND TEMPERATURE IN MAGNET HOUSE

132 ESKDALEUIR		TERRESTRIAL MAGNETIC ELEMENTS											OCTOBER 1955			
		Horizontal force			Declination			Vertical force			3-hr. range indices K	Sum of K indices	Magnetic character of day (0-2)	Temperature in magnet house 200 +		
		Maximum 16,000γ +	Minimum 16,000γ +	Range	Maximum 10° +	Minimum 10° +	Range	Maximum 44,000γ +	Minimum 44,000γ +	Range						
		h. m. γ	γ h. m.	γ	h. m. γ	γ h. m.	γ	h. m. γ	γ h. m.	γ				°A.		
1		20 55 691	609 10 38	82	14 00 61.3	50.3 20 49	11.0	20 10 1265	1213 00 00	52	3,1,2,4,3,2,3,2	20	1	85.4		
2		19 56 725	622 13 03	103	14 06 63.5	37.7 19 45	25.8	17 15 1298	1244 03 37	54	3,1,2,2,3,4,4,2	21	1	85.4		
3		05 11 693	615 11 43	78	14 59 61.7	48.2 16 50	13.5	17 05 1285	1239 03 55	46	2,3,3,3,2,3,2,1	19	1	85.4		
4		06 04 695	603 10 34	92	13 46 62.5	48.8 08 56	13.7	16 40 1263	1238 05 02	25	1,3,3,3,1,1,1,1	14	0	85.4		
5 d		19 40 822	601 20 24	221	19 57 68.9	29.1 22 24	39.8	18 37 1308	1215 22 40	93	2,2,2,3,3,3,6,5	26	1	85.4		
6 d		17 14 695	595 09 44	100	02 47 66.8	46.3 17 05	20.5	17 01 1304	1218 03 08	86	4,3,3,3,3,4,2,2	24	1	85.4		
7		23 10 726	623 11 50	103	13 31 64.4	50.1 09 10	14.3	16 18 1267	1249 12 04	18	2,1,2,1,2,2,1,3	14	0	85.4		
8		02 44 714	639 11 29	75	12 58 60.8	50.1 09 01	10.7	16 47 1258	1242 12 48	16	3,2,2,2,2,2,2,2	17	0	85.4		
9		21 41 729	638 11 51	91	14 01 60.0	42.2 21 35	17.8	09 19 1262	1227 23 33	35	1,1,1,1,1,2,1,4	12	0	85.4		
10		06 35 712	611 13 00	101	12 36 63.3	45.5 17 36	17.8	17 44 1275	1231 00 00	44	3,2,3,3,3,3,3,0	20	0	85.5		
11		19 00 689	618 11 00	71	13 09 60.9	48.8 18 49	12.1	16 23 1285	1253 04 20	32	0,2,3,2,3,2,2,0	14	0	85.5		
12 q		21 43 681	652 11 55	29	13 04 57.4	50.0 09 00	7.4	00 20 1259	1241 12 16	18	0,0,1,1,1,0,0,1	4	0	85.5		
13 q		05 54 683	651 11 56	32	12 53 58.5	50.0 09 38	8.5	20 27 1265	1245 12 12	20	1,0,1,1,1,0,2,2	8	0	85.5		
14		06 11 695	663 13 14	32	12 52 60.8	51.9 22 31	8.9	18 30 1259	1241 11 14	18	2,1,1,1,2,1,1,2	11	0	85.4		
15		22 59 709	657 11 17	52	14 13 58.3	47.3 24 00	11.0	01 43 1256	1237 12 20	19	1,1,0,1,1,0,0,3	7	0	85.4		
16		20 02 697	660 00 57	37	14 00 59.8	45.1 00 34	14.7	09 05 1257	1244 13 59	13	3,2,2,1,2,2,1,1	14	0	85.4		
17		18 41 705	666 12 20	39	13 34 58.1	51.4 09 11	6.7	19 10 1256	1240 12 29	16	1,1,1,1,1,0,2,2	9	0	85.4		
18 q		21 53 693	656 09 59	37	13 37 58.5	51.5 09 15	7.0	15 40 1253	1241 11 50	12	1,0,0,2,1,1,0,0	5	0	85.4		
19 q		22 56 697	655 10 40	42	12 49 60.7	51.4 09 09	9.3	08 20 1253	1237 12 20	16	0,0,1,1,2,2,1,1	8	0	85.4		
20		02 56 694	652 09 11	42	12 55 63.0	52.1 02 05	10.9	16 00 1264	1242 11 22	22	2,1,1,2,2,2,2,1	13	0	85.4		
21		22 35 688	658 11 35	30	13 48 60.0	46.5 21 40	13.5	22 03 1265	1241 11 31	24	1,0,1,1,1,1,1,3	9	0	85.4		
22		24 00 692	647 14 01	45	13 53 65.3	51.3 08 10	14.0	18 19 1281	1244 12 18	37	0,0,1,1,3,2,3,1	11	0	85.4		
23		20 00 695	644 12 31	51	12 22 59.9	50.9 02 23	9.0	08 16 1260	1244 01 58	16	2,1,1,2,2,2,2,1	13	0	85.4		
24 q		20 40 696	655 11 19	41	12 34 60.1	51.3 09 39	8.8	23 34 1256	1243 12 20	13	0,0,1,1,2,1,1,2	8	0	85.4		
25 d		20 13 718	564 13 07	154	14 12 75.2	35.5 17 03	39.7	16 06 1362	1191 24 00	171	4,3,4,4,4,5,5,4	33	1	85.4		
26 d		19 46 745	588 01 19	157	13 40 63.5	29.3 19 45	34.2	16 31 1293	1172 00 25	121	4,4,3,3,3,4,5,3	29	1	85.4		
27		20 30 701	635 16 32	66	12 50 60.2	44.6 16 44	15.6	16 40 1283	1240 00 00	43	2,2,2,2,3,3,3,3	20	0	85.4		
28		22 41 680	634 15 04	46	13 04 60.9	48.9 21 43	12.0	15 04 1284	1257 00 30	27	1,2,1,2,3,2,0,2	13	0	85.4		
29		21 51 709	639 18 00	70	14 04 58.9	46.7 22 12	12.2	18 24 1285	1253 05 00	32	1,2,2,2,1,3,3,3	17	0	85.4		
30		17 00 683	632 17 38	51	12 02 59.9	41.4 17 57	18.5	18 11 1284	1249 11 01	35	1,0,1,1,2,4,3,2	14	0	85.4		
31 d		20 30 713	571 20 56	142	15 53 66.1	24.6 21 03	41.5	20 17 1316	1218 04 42	98	2,3,2,3,3,3,5,5	26	1	85.4		
Mean	- -	705	631 - -	74	- - 61.9	45.8 - -	16.1	- - 1276	1235 - -	41	-	-	0.26	85.4		

TERRESTRIAL MAGNETIC FORCE: HORIZONTAL COMPONENT
Mean values for periods of sixty minutes ending at exact hours, G.M.T.

133 ESKDALEMUIR (H)

16,000γ (0.16 C.G.S. unit) +

NOVEMBER 1955

	Hour G.M.T.	0-1	1-2	2-3	3-4	4-5	5-6	6-7	7-8	8-9	9-10	10-11	11-12	12-13	13-14	14-15	15-16	16-17	17-18	18-19	19-20	20-21	21-22	22-23	23-24	Mean
	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ
1	653	652	651	653	677	681	670	660	658	651	643	637	645	655	658	664	667	662	669	667	661	670	679	670	670	661
2	664	667	667	671	673	670	675	671	669	662	656	647	643	656	645	661	659	658	671	680	685	683	679	679	679	666
3 q	678	678	678	679	678	678	677	673	668	652	644	645	653	664	675	675	674	676	677	681	681	676	674	680	671	671
4 d	673	668	680	700	690	669	681	661	663	661	645	637	653	662	662	664	664	669	669	669	649	636	651	643	663	663
5	658	661	661	662	678	680	669	671	651	647	647	651	646	654	660	661	664	667	669	666	670	667	664	668	662	662
6 q	676	677	673	673	675	677	680	679	671	660	651	648	650	657	661	665	670	675	678	676	679	679	672	673	670	670
7 q	679	677	673	673	675	677	679	681	675	664	655	651	657	662	667	673	677	680	682	685	684	684	684	683	674	674
8	684	687	689	687	686	693	702	698	688	683	680	674	668	669	666	662	658	675	663	683	688	685	664	658	679	679
9	698	662	668	672	675	670	676	677	675	671	666	657	658	662	672	672	676	677	676	679	680	682	677	680	673	673
10	679	673	673	675	678	681	682	682	676	666	656	649	652	663	671	677	681	676	679	679	684	683	688	685	675	675
11	680	677	680	679	683	685	686	684	676	667	660	661	666	668	673	678	670	681	681	680	679	690	685	684	677	677
12	680	681	682	681	681	686	688	684	639	639	662	662	663	662	667	672	681	657	636	657	665	672	672	674	668	668
13	672	671	668	666	669	671	678	673	671	664	657	654	658	662	666	671	673	673	674	677	679	677	679	681	670	670
14	676	675	676	679	680	681	680	679	675	666	656	658	668	676	680	672	685	686	688	684	683	681	684	683	677	677
15	685	686	686	688	690	692	696	679	680	678	658	640	644	651	648	645	645	652	649	618	641	664	654	668	664	664
16 d	661	659	658	667	663	663	681	672	661	648	648	645	643	649	654	656	647	638	643	643	632	656	662	663	655	655
17	662	661	666	670	692	670	672	670	664	654	645	645	652	653	656	662	671	673	673	672	668	662	667	668	665	665
18 d	671	670	671	668	672	684	681	683	660	664	662	663	672	668	679	686	686	620	656	604	618	650	643	642	661	661
19 d	646	643	649	652	658	659	658	664	664	624	571	590	613	658	834	660	575	580	619	630	648	632	623	617	640	640
20 d	643	651	631	619	641	642	633	613	589	591	583	578	603	620	615	615	615	624	591	603	602	602	642	633	616	616
21	646	640	645	639	656	654	651	649	643	635	631	632	634	640	647	651	654	656	657	659	660	664	663	662	649	649
22 q	660	659	659	662	664	665	666	669	663	658	651	642	633	639	649	655	660	662	664	667	668	670	671	669	659	659
23 q	668	668	668	672	675	675	675	671	667	660	656	660	662	665	669	669	673	675	674	672	669	671	669	666	669	669
24	674	677	677	677	677	680	682	679	667	667	666	656	654	661	659	661	658	657	656	665	662	666	675	665	667	667
25	673	688	679	673	674	681	679	682	672	666	666	665	655	652	669	667	648	671	672	677	675	671	673	676	671	671
26	680	678	675	677	677	679	686	682	673	664	654	654	659	664	664	668	673	679	680	679	677	674	674	676	673	673
27	688	677	678	680	681	683	684	680	678	668	663	656	658	669	673	672	676	676	680	681	679	668	671	680	675	675
28	679	677	678	683	685	686	685	683	682	671	652	646	656	665	671	670	663	677	677	683	678	658	660	662	672	672
29	671	675	671	672	679	684	686	681	678	672	662	654	659	663	665	669	672	670	671	672	661	662	672	676	671	671
30	676	677	677	677	685	681	686	683	679	675	669	663	664	669	663	667	671	674	666	677	680	676	675	676	674	674
Mean	671	670	670	671	676	676	677	674	666	658	651	647	651	659	668	665	663	663	665	665	666	667	668	668	666	666

MAGNETIC DECLINATION (WEST)
Mean values for periods of sixty minutes ending at exact hours, G.M.T.

134 ESKDALEMUIR (D)

10° +

NOVEMBER 1955

	Hour G.M.T.																								NOVEMBER 1966											
	0-1	1-2	2-3	3-4	4-5	5-6	6-7	7-8	8-9	9-10	10-11	11-12	12-13	13-14	14-15	15-16	16-17	17-18	18-19	19-20	20-21	21-22	22-23	23-24	Mean											
1	54.0	53.0	52.3	52.3	53.0	49.6	52.3	51.3	51.7	52.3	53.4	55.9	57.6	58.6	57.6	55.8	54.7	54.9	52.3	45.5	53.2	52.9	53.2	53.4	53.4											
2	53.1	53.3	54.6	54.0	53.1	52.9	52.5	52.1	50.9	51.8	54.9	57.1	58.1	58.6	57.9	55.8	55.9	55.3	55.9	54.8	54.4	53.6	52.7	51.9	54.4											
3 q	53.1	53.4	53.7	53.9	53.6	53.6	53.1	52.4	51.3	50.7	52.7	55.8	57.1	57.2	57.2	56.2	55.4	54.6	54.4	54.2	54.4	55.0	54.4	53.7	54.2											
4 d	52.1	47.7	52.2	58.5	62.8	62.1	56.2	49.2	49.3	50.6	53.6	55.1	55.6	56.2	55.5	54.1	54.3	54.8	54.4	52.3	46.7	48.7	47.7	42.7	53.0											
5	44.5	46.4	49.2	50.8	53.3	50.4	51.8	52.7	53.1	54.2	54.1	56.0	57.5	57.7	57.4	55.9	55.0	54.5	54.9	54.6	53.7	53.4	51.9	52.9	53.2											
6 q	52.3	51.0	52.0	53.0	52.7	52.4	52.4	51.8	51.1	51.0	52.3	54.5	56.3	57.2	56.6	55.5	54.9	54.4	54.1	53.8	51.3	51.4	51.6	52.3	53.2											
7 q	51.8	51.9	52.8	53.1	52.7	53.1	53.0	52.5	51.5	51.5	52.6	54.9	56.9	57.9	56.9	55.8	55.3	55.7	54.8	54.2	53.5	53.2	53.0	53.1	53.8											
8	53.5	53.8	54.0	53.1	52.8	54.1	53.7	53.8	53.2	53.9	54.8	56.2	57.2	57.7	58.7	62.2	63.8	56.2	57.9	54.1	54.1	52.9	51.4	46.4	55.0											
9	50.0	52.3	52.7	53.1	50.9	52.7	52.5	52.5	52.3	51.3	53.1	54.8	56.6	57.7	58.1	57.1	56.9	55.7	55.5	54.5	53.9	53.4	52.9	52.7	53.9											
10	51.9	52.7	53.4	53.3	53.5	52.8	52.3	51.7	50.5	50.9	52.8	54.7	57.3	57.7	57.2	55.8	55.4	54.9	54.3	49.9	53.5	53.2	53.3	51.3	53.5											
11	50.3	53.1	53.4	54.4	53.9	53.4	53.3	52.4	51.6	51.6	52.6	55.0	57.4	58.2	58.9	57.5	55.5	54.5	54.6	53.3	51.0	47.8	52.3	53.3	53.7											
12	53.7	54.3	53.7	53.0	53.4	53.4	52.9	51.9	51.1	56.9	58.0	61.1	60.7	58.8	57.9	57.4	58.8	57.2	49.5	55.4	53.8	53.1	53.2	52.8	55.1											
13	53.6	53.5	52.4	52.6	50.2	51.3	52.3	51.9	51.3	51.3	52.8	55.9	58.4	58.4	57.4	55.9	55.0	54.5	53.7	53.5	53.2	53.1	53.0	52.6	53.7											
14	52.6	53.2	53.8	53.7	53.2	53.0	52.8	52.6	51.4	51.7	52.8	55.3	57.8	57.7	57.9	56.1	56.1	56.5	55.7	55.3	50.9	53.1	53.0	52.8	54.1											
15	54.1	54.1	54.1	53.8	54.1	54.5	53.6	53.4	53.5	55.1	55.7	58.8	61.9	62.3	60.0	59.6	55.4	53.1	54.2	44.8	48.1	47.8	51.2	49.6	54.3											
16 d	47.1	49.6	54.4	49.8	52.8	55.3	61.5	59.0	56.0	53.2	54.3	56.5	58.3	60.4	63.0	59.9	58.7	57.2	53.1	46.9	46.8	48.1	43.3	50.4	54.0											
17	51.4	52.2	52.9	51.7	58.7	52.6	52.8	52.7	52.1	51.8	53.1	54.9	56.5	57.5	57.5	56.7	55.1	54.1	53.4	53.2	53.1	51.7	52.7	52.7	53.8											
18 d	53.1	53.0	52.7	52.4	52.6	51.8	56.1	55.8	54.3	53.7	54.9	57.3	59.6	59.9	58.7	60.0	61.6	48.1	50.9	43.1	48.9	50.0	50.0	52.9	53.8											
19 d	54.9	55.4	52.4	52.6	52.6	52.2	51.9	51.8	52.0	52.0	53.4	55.5	61.1	67.9	75.7	69.2	59.0	55.3	53.2	51.1	53.0	51.4	50.6	40.0	55.2											
20 a	48.5	52.3	42.9	46.3	55.3	51.3	53.7	54.1	57.7	57.2	54.9	56.4	57.2	58.0	59.7	58.9	55.3	44.1	45.1	44.5	41.3	45.5	49.0	43.0	57.3											
21	45.6	51.7	56.2	56.1	55.8	54.1	53.9	53.5	53.0	53.1	53.0	54.1	54.9	55.4	55.1	54.5	53.8	53.1	53.1	52.9	52.6	52.7	52.7	52.7	53.5											
22 q	52.6	52.7	52.7	53.0	53.0	52.8	52.6	52.5	51.5	51.7	53.0	55.4	56.3	57.2	56.7	54.8	53.6	52.8	52.6	52.5	52.3	52.4	52.6	52.8	53.3											
23 q	52.9	52.8	52.8	53.0	53.1	53.4	52.7	52.0	51.8	51.2	52.0	54.4	55.3	56.0	55.7	55.1	54.6	53.8	53.4	53.5	53.6	49.1	50.6	51.7	53.1											
24	53.5	53.6	53.3	53.0	52.8	53.3	54.2	52.8	53.4	52.2	53.1	54.2	55.8	58.3	59.3	59.6	59.5	57.7	55.5	53.7	53.6	52.2	51.6	51.8	50.3											
25	54.1	57.0	51.4	51.4	52.7	52.6	52.7	52.5	52.9	53.6	54.5	57.1	58.4	57.4	57.5	58.4	51.7	54.8	53.8	53.2	52.9	52.6	52.5	53.3	54.1											
26	52.6	55.3	52.8	52.3	51.9	52.7	52.5	52.4	51.9	51.8	52.7	54.8	56.3	56.4	55.6	55.2	54.7	54.0	53.7	53.2	52.6	51.8	51.2	52.7	53.4											
27	52.6	53.6	54.1	54.0	53.9	53.3	52.7	52.5	52.2	52.3	54.1	56.0	57.3	57.6	57.8	56.4	55.5	54.5	54.0	53.5	53.2	52.2	52.6	42.9	54.1											
28	52.8	53.9	54.2	53.9	53.8	53.3	52.7	52.5	52.2	52.6	54.6	58.0	59.0	58.4	57.7	56.4	54.9	54.4	54.0	53.9	53.4	50.2	46.0	46.8	53.7											
29	51.1	52.7	51.4	52.6	53.6	52.5	52.6	53.0	53.6	53.5	53.6	55.4	55.9	56.1	56.1	55.2	54.6	53.9	53.0	53.2	48.8	51.1	52.4	53.7	53.3											
30	53.8	53.9	53.8	54.5	54.8	52.6	52.7	52.7	52.7	52.4	53.1	54.6	55.5	56.9	56.7	55.9	55.9	54.9	53.0	53.4	53.1	53.0	53.0	53.2	54.0											
Mean	51.9	52.8	52.7	53.0	53.7	53.1	53.3	52.7	52.3	52.6	53.7	55.9	57.4	58.2	58.3	57.2	56.0	54.3	53.6	52.1	51.8	51.5	51.5	51.0	53.8											

NOVEMBER 1955

DAILY EXTREMES OF TERRESTRIAL MAGNETIC ELEMENTS. MAGNETIC CHARACTER FIGURES AND TEMPERATURE IN MAGNET HOUSE

NOVEMBER 1955

q denotes an international quiet day and d an international disturbed day.

TERRESTRIAL MAGNETIC FORCE: HORIZONTAL COMPONENT
 Mean values for periods of sixty minutes ending at exact hours, G.M.T.

137 ESKDALEMUIR (H)												16,000γ (0.16 C.G.S. unit) +												DECEMBER 1955																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																												
	Hour G.M.T.																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																			

689 at 0-1h. January 1, 1956.

MAGNETIC DECLINATION (WEST)
 Mean values for periods of sixty minutes ending at exact hours, G.M.T.

138 ESKDALEMUIR (D)												10° +										DECEMBER 1955										
	Hour G.M.T.																															
	0-1	1-2	2-3	3-4	4-5	5-6	6-7	7-8	8-9	9-10	10-11	11-12	12-13	13-14	14-15	15-16	16-17	17-18	18-19	19-20	20-21	21-22	22-23	23-24	Mean							
1 d	53.9	56.7	54.1	54.5	54.0	53.6	53.2	52.8	52.5	53.1	55.2	58.0	58.8	59.3	57.8	59.8	60.2	57.4	59.0	58.3	50.8	43.8	44.1	39.9	54.2							
2	39.5	40.4	40.5	40.4	45.6	49.8	55.0	58.3	57.5	56.4	56.9	56.1	57.7	56.7	56.1	54.9	54.0	53.6	53.2	52.7	52.3	52.1	51.8	52.3	51.8							
3	52.5	53.0	53.2	53.6	53.5	53.3	53.1	52.7	52.7	52.7	54.1	56.4	57.6	59.3	59.0	57.7	58.2	55.6	54.8	55.2	50.5	52.4	53.4	53.0	54.5							
4	53.9	51.1	54.4	54.1	54.0	53.6	53.6	54.2	53.1	52.1	53.2	55.5	55.8	55.7	55.1	55.0	54.6	53.9	53.7	53.6	53.0	52.8	52.0	52.5	53.8							
5	52.7	52.8	53.6	54.0	53.7	53.3	53.4	53.0	53.0	52.9	53.6	54.8	56.1	56.8	56.6	55.8	55.9	54.9	53.7	54.5	54.5	53.7	49.2	42.4	53.5							
6 d	46.6	47.9	47.7	50.0	47.5	48.4	48.2	51.4	51.6	51.9	53.5	54.6	56.1	55.7	55.9	55.0	54.3	54.1	53.7	53.4	53.0	43.7	45.6	47.2	51.1							
7	48.2	51.4	50.4	48.8	51.7	50.5	51.1	51.7	51.8	53.0	53.8	55.6	55.9	55.3	55.1	54.5	54.1	53.5	53.2	53.0	52.9	52.7	52.4	52.7	52.6							
8	53.2	53.1	52.6	53.1	53.4	51.5	51.9	51.6	51.6	51.8	53.4	53.6	55.5	55.9	56.6	57.1	54.3	54.7	54.2	53.4	46.6	48.3	51.4	52.3	53.0							
9	51.5	55.3	51.2	52.1	53.1	53.1	53.6	55.6	54.5	52.7	53.1	54.8	57.0	56.9	57.6	55.9	54.3	55.1	54.8	54.2	53.1	52.6	52.4	52.3	54.0							
10	52.3	53.5	52.8	52.9	52.8	53.0	52.7	52.6	52.6	52.4	52.8	54.8	56.2	57.4	55.8	55.5	55.6	57.1	54.5	54.3	54.1	53.4	52.9	53.0	54.0							
11	53.4	53.7	53.5	53.2	53.5	53.0	52.7	52.7	52.3	51.7	51.9	53.7	55.7	56.6	56.3	56.2	54.7	55.3	55.0	53.6	53.4	52.5	50.9	49.7	53.5							
12	52.4	52.8	53.3	53.6	53.1	53.0	53.1	52.8	52.6	52.5	53.1	54.1	55.4	56.6	56.8	56.3	55.6	57.1	56.1	53.5	54.8	52.5	51.0	52.4	53.9							
13 q	53.0	53.6	53.5	53.4	53.3	53.0	52.6	52.4	52.3	51.7	52.1	53.8	54.7	55.9	55.8	55.5	54.8	55.0	54.7	53.6	53.0	52.8	52.7	52.7	53.6							
14 q	53.0	53.4	53.6	54.0	54.0	53.7	53.3	53.2	53.0	52.8	53.0	54.3	55.6	56.3	56.1	55.3	54.9	54.5	54.3	53.9	53.7	53.2	53.1	52.9	54.0							
15	52.6	51.5	52.0	53.4	53.5	53.5	53.3	53.1	53.0	52.5	53.1	54.5	56.2	57.0	56.7	56.2	55.7	55.6	54.6	52.6	54.0	52.6	50.1	47.4	53.5							
16	51.8	53.6	54.6	54.9	51.9	51.9	52.7	53.0	53.1	54.6	55.6	57.7	59.1	58.8	57.5	57.2	57.7	56.2	57.0	54.4	53.3	53.0	53.3	53.5	54.9							
17	53.5	54.0	54.8	55.1	55.1	53.9	53.5	53.0	52.9	52.5	53.2	54.9	55.2	56.3	56.3	55.8	56.1	56.3	55.2	54.2	53.5	53.1	52.7	52.9	54.3							
18 q	53.5	54.5	54.9	53.9	53.9	53.9	53.4	53.1	53.1	52.4	52.8	53.7	55.0	55.9	55.4	55.0	54.6	54.1	54.0	53.4	53.0	52.3	51.9	52.0	53.8							
19	52.3	52.4	52.9	53.0	53.3	53.3	53.4	52.7	52.5	52.5	54.5	55.6	57.3	57.9	58.3	58.7	63.3	56.2	54.4	50.1	49.2	49.1	48.9	46.9	53.7							
20	47.5	48.2	52.0	53.7	50.4	53.3	55.4	54.2	53.5	54.1	54.9	54.9	55.9	58.2	61.2	59.2	56.9	54.6	54.3	53.5	53.2	52.0	50.3	50.0	53.8							
21	50.1	52.4	53.4	52.9	53.1	53.5	53.5	52.7	52.1	52.4	54.5	54.9	58.0	59.4	61.8	61.6	56.4	56.2	54.1	52.6	50.9	49.1	48.1	50.5	53.9							
22	52.2	53.9	54.0	54.6	54.8	53.2	52.6	52.7	52.6	52.5	52.6	53.0	54.6	56.1	55.2	55.3	54.2	54.1	54.1	53.5	53.0	52.7	52.7	52.9	53.6							
23 q	53.1	53.1	53.4	53.9	54.3	53.5	51.8	52.5	52.0	51.4	52.3	52.9	53.8	54.4	53.7	53.3	53.1	53.0	53.1	53.4	53.2	52.3	52.4	52.6	53.0							
24	53.2	53.9	54.2	54.0	53.3	53.1	53.0	52.8	52.3	52.6	53.6	55.6	56.9	57.2	56.6	57.0	57.1	55.6	55.3	54.4	53.1	52.6	52.4	46.8	54.0							
25 d	41.5	45.6	50.2	52.2	51.3	57.3	54.3	55.0	54.1	52.7	53.6	55.0	58.3	60.3	63.1	63.0	59.0	58.6	53.6	49.8	47.2	50.9	52.2	51.8	53.8							
26 d	51.9	52.4	52.6	53.2	52.9	52.7	52.2	51.9	51.7	52.6	54.3	55.2	58.1	59.9	59.6	63.5	60.7	54.8	53.8	53.7	47.0	34.0	43.6	44.0	52.8							
27 d	46.0	52.3	57.7	54.1	47.8	50.8	52.6	53.1	53.1	54.0	54.8	57.1	55.3	57.0	56.7	54.9	52.7	50.8	53.7	53.4	52.5	52.6	51.7	52.8	53.2							
28	53.4	53.5	53.8	53.5	53.3	53.2	52.7	52.6	52.0	52.9	54.0	54.6	55.5	57.0	56.4	54.7	54.0	55.9	52.5	51.0	52.6	52.0	51.5	52.7	53.6							
29 q	53.4	53.7	53.6	53.7	53.7	53.4	53.0	52.7	52.1	51.8	52.9	54.4	54.9	55.4	54.5	53.8	53.7	53.6	53.2	52.6	52.2	52.0	51.9	52.2	53.3							
30	52.4	53.2	54.0	54.0	53.6	53.6	53.2	52.9	52.3	52.5	53.1	54.3	54.9	56.1	57.5	55.7	55.3	54.8	54.1	53.5	52.8	52.7	52.5	51.9	53.8							
31	52.9	53.3	53.6	54.3	55.1	54.7	53.5	53.2	52.7	52.7	53.2	55.4	55.2	56.4	56.1	55.4	55.9	57.6	55.9	52.8	48.4	49.9	49.1	48.0	53.6							
Mean	51.2	52.3	52.8	53.0	52.7	52.9	52.9	53.1	52.8	52.7	53.6	55.0	56.2	57.0	57.0	56.6	55.9	55.1	54.5	53.4	52.1	50.9	50.9	50.5	53.5							

TERRESTRIAL MAGNETIC FORCE: VERTICAL COMPONENT
Mean values for periods of sixty minutes ending at exact hours, G.M.T.

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139 ESKDALEUIR (Z)		44,000γ (0.44 C.G.S. unit) +																		DECEMBER 1955						
		Hour G.M.T.																								Mean
		0-1	1-2	2-3	3-4	4-5	5-6	6-7	7-8	8-9	9-10	10-11	11-12	12-13	13-14	14-15	15-16	16-17	17-18	18-19	19-20	20-21	21-22	22-23	23-24	
		γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ
1	d	1266	1260	1260	1262	1263	1263	1263	1262	1260	1260	1263	1263	1263	1273	1277	1282	1303	1309	1349	1368	1332	1313	1263	1267	1281
2		1262	1261	1249	1247	1241	1238	1244	1245	1253	1260	1261	1263	1270	1275	1278	1279	1277	1275	1275	1273	1272	1271	1271	1271	1263
3		1271	1271	1271	1270	1270	1268	1267	1267	1267	1262	1262	1263	1267	1273	1282	1284	1282	1276	1273	1280	1289	1283	1272	1271	1273
4		1268	1269	1267	1267	1267	1266	1267	1267	1267	1267	1267	1264	1267	1270	1270	1272	1272	1272	1271	1270	1270	1268	1268	1267	1268
5		1267	1267	1266	1266	1266	1265	1266	1266	1266	1266	1266	1263	1262	1263	1264	1268	1268	1268	1271	1268	1269	1271	1264	1262	1266
6	d	1262	1260	1261	1256	1257	1256	1256	1261	1263	1262	1262	1262	1266	1267	1268	1272	1272	1271	1271	1270	1273	1275	1263	1260	1264
7		1259	1260	1262	1257	1252	1259	1264	1266	1268	1264	1262	1262	1264	1266	1268	1271	1272	1271	1270	1269	1268	1268	1267	1268	1265
8		1267	1266	1263	1263	1261	1257	1256	1256	1257	1261	1258	1257	1260	1260	1264	1270	1274	1272	1271	1269	1275	1272	1270	1268	1264
9		1261	1249	1250	1258	1260	1260	1260	1260	1260	1262	1260	1262	1263	1273	1281	1282	1284	1276	1272	1272	1272	1273	1271	1268	1266
10		1268	1267	1266	1266	1265	1263	1264	1265	1263	1263	1262	1262	1265	1267	1268	1271	1270	1270	1272	1267	1268	1268	1268	1267	1266
11		1267	1266	1265	1263	1262	1262	1263	1263	1262	1267	1267	1264	1264	1264	1268	1271	1271	1268	1269	1268	1268	1270	1272	1273	1267
12		1268	1267	1266	1263	1263	1263	1263	1263	1263	1262	1262	1261	1260	1262	1262	1267	1267	1266	1267	1271	1273	1277	1276	1272	1266
13	q	1269	1269	1267	1267	1265	1265	1264	1263	1262	1262	1261	1260	1259	1262	1266	1267	1267	1266	1264	1264	1264	1263	1263	1263	1264
14	q	1263	1262	1262	1261	1261	1260	1260	1259	1256	1256	1256	1256	1255	1256	1257	1261	1261	1261	1260	1260	1260	1262	1262	1262	1260
15		1262	1259	1259	1259	1260	1259	1258	1257	1257	1257	1259	1256	1252	1255	1256	1259	1261	1262	1266	1271	1269	1270	1269	1266	1261
16		1262	1261	1260	1254	1252	1251	1251	1251	1255	1255	1255	1252	1252	1256	1263	1267	1268	1269	1267	1268	1267	1266	1264	1263	1260
17		1262	1261	1260	1259	1258	1257	1258	1257	1256	1253	1248	1246	1250	1251	1256	1259	1262	1262	1262	1262	1261	1260	1260	1258	1257
18	q	1259	1257	1255	1256	1256	1256	1256	1256	1256	1254	1257	1256	1256	1256	1261	1262	1262	1262	1261	1261	1262	1262	1262	1263	1259
19		1262	1262	1262	1262	1261	1260	1260	1261	1262	1262	1262	1258	1256	1259	1267	1272	1280	1290	1288	1295	1292	1285	1277	1266	1269
20		1262	1260	1259	1248	1252	1256	1252	1256	1260	1264	1263	1263	1266	1271	1273	1280	1285	1283	1278	1274	1273	1272	1272	1266	1266
21		1262	1259	1260	1260	1262	1262	1262	1263	1265	1265	1262	1264	1266	1272	1279	1290	1302	1294	1284	1279	1282	1277	1274	1268	1271
22		1266	1263	1264	1264	1259	1260	1262	1264	1267	1266	1262	1262	1263	1262	1267	1268	1267	1267	1267	1267	1266	1265	1264	1263	1264
23	q	1262	1262	1259	1259	1259	1261	1261	1263	1264	1265	1264	1264	1265	1267	1267	1268	1268	1267	1267	1267	1267	1268	1266	1263	1264
24		1261	1260	1260	1260	1261	1261	1261	1262	1262	1262	1262	1262	1262	1262	1262	1263	1267	1267	1267	1267	1267	1267	1268	1263	1263
25	d	1245	1238	1245	1253	1252	1247	1243	1250	1256	1258	1261	1261	1262	1267	1267	1282	1288	1295	1302	1313	1309	1299	1284	1278	1274
26	d	1272	1271	1269	1267	1267	1267	1267	1267	1268	1266	1266	1268	1272	1273	1277	1288	1299	1290	1278	1277	1294	1283	1272	1258	1274
27	d	1255	1246	1244	1229	1220	1222	1239	1250	1256	1261	1262	1265	1266	1268	1274	1276	1278	1277	1272	1272	1272	1268	1270	1268	1259
28		1268	1267	1266	1266	1265	1265	1265	1264	1266	1264	1266	1266	1267	1268	1272	1276	1275	1275	1278	1279	1272	1270	1268	1267	1269
29	q	1266	1266	1266	1264	1264	1263	1263	1264	1265	1263	1262	1260	1257	1262	1266	1267	1264	1263	1264	1266	1266	1265	1266	1266	1264
30		1263	1263	1262	1262	1262	1261	1261	1261	1260	1260	1260	1257	1256	1257	1263	1266	1264	1263	1263	1263	1262	1262	1262	1262	1261
31		1262	1262	1261	1261	1257	1254	1252	1253	1254	1257	1256	1254	1252	1251	1260	1267	1268	1273	1274	1282	1281	1275	1274	1272	1263
Mean		1263	1262	1261	1260	1259	1258	1259	1260	1261	1262	1261	1261	1261	1264	1269	1272	1274	1274	1274	1275	1274	1272	1268	1266	1265

1262 at 0-1h. January 1, 1956.

DAILY EXTREMES OF TERRESTRIAL MAGNETIC ELEMENTS, MAGNETIC CHARACTER FIGURES AND TEMPERATURE IN MAGNET HOUSE

140		ESKDALEUIR										DECEMBER 1955									
		TERRESTRIAL MAGNETIC ELEMENTS										3-hr. range indices K	Sum of K indices	Magnetic character of day (0-2)	Temperature in magnet house 200 +						
		Horizontal force			Declination			Vertical force													
		Maximum 16,000γ +	Minimum 16,000γ +	Range	Maximum 10° +	Minimum 10° +	Range	Maximum 44,000γ +	Minimum 44,000γ +	Range											
		h. m.	γ	γ	h. m.	γ	h. m.	γ	h. m.	γ	γ	h. m.	γ	γ	h. m.	γ					
1	d	01 40	692	538	20 43	154	20 40	69.1	37.6	21 09	31.5	19 14	1375	1244	22 16	131	2,1,1,2,3,3,5,4	21	1	85.3	
2		05 28	677	607	00 30	70	07 00	59.5	36.9	03 22	22.6	15 50	1280	1236	05 28	44	3,4,3,2,1,0,0,1	14	0	85.3	
3		20 40	698	639	14 56	59	13 59	60.2	43.0	20 36	17.2	20 47	1291	1260	10 52	31	1,0,1,3,2,3,4,3	17	1	85.3	
4		05 26	688	647	01 50	41	11 35	56.4	49.9	01 50	6.5	16 55	1273	1263	11 32	10	2,1,1,1,0,0,0,1	6	0	85.3	
5		22 32	745	655	23 56	90	13 40	57.1	40.5	23 04	16.6	18 25	1273	1258	22 55	15	1,1,0,1,2,1,2,4	12	0	85.3	
6	d	21 20	718	639	20 58	79	12 13	56.3	34.2	21 10	22.1	21 07	1284	1256	03 12	28	2,2,3,2,1,0,3,4	17	1	85.3	
7		04 01	696	651	00 25	45	11 40	56.3	44.4	00 33	11.9	16 34	1272	1252	04 28	20	3,3,1,1,0,0,0,1	9	0	85.3	
8		24 00	695	653	16 19	42	14 35	57.6	38.7	20 50	18.9	20 49	1279	1256	06 53	23	2,2,2,1,2,2,4,3	18	0	85.3	
9		05 28	696	620	13 30	76	13 12	60.6	49.9	00 35	10.7	16 01	1289	1241	01 46	48	3,2,2,2,3,3,1,1	17	0	85.3	
10		19 25	698	647	12 50	51	13 21	59.0	51.0	10 04	8.0	18 24	1274	1261	11 00	13	1,1,0,2,2,2,3,1	12	0	85.3	
11		17 44	688	655	12 27	33	13 10	57.1	48.5	23 50	8.6	23 34	1274	1262	08 10	12	1,1,0,2,2,1,1,2	10	0	85.3	
12		16 30	687	664	20 52	23	13 54	57.9	49.4	00 00	8.5	21 53	1278	1259	12 55	19	1,1,0,1,1,1,2,2	9	0	85.0	
13	q	17 14	693	656	00 11	37	13 56	56.3	51.3	09 36	5.0	00 01	1272	1258	11 00	14	0,0,0,1,1,2,1,0	5	0	85.1	
14	q	08 50	696	671	12 16	25	13 49	56.5	52.6	08 31	3.9	16 00	1263	1254	12 43	9	0,0,0,2,1,0,0,0	3	0	85.0	
15		17 14	693	668	21 33	25	14 04	57.2	44.6	23 10	12.6	19 34	1272	1252	12 48	20	1,0,0,1,1,1,2,3	9	0	85.0	
16		07 29	701	661	14 39	40	13 00	59.9	50.5	00 00	9.4	17 16	1271	1249	05 33	22	2,2,2,2,2,2,1,1	14	0	85.0	
17		05 08	695	671	11 52	24	17 14	57.1	52.0	22 14	5.1	00 00	1263	1246	11 32	17	1,1,0,2,0,1,2,1	8	0	84.8	
18	q	16 44	699	665	11 30	34	13 43	56.0	51.9	22 29	4.1	15 39	1264	1253	08 59	11	1,0,0,1,1,1,0,0	4	0	84.6	
19		07 04	701	641	19 16	60	16 32	65.3	45.6	23 13	19.7	19 33	1296	1256	12 40	40	0,0,1,1,2,3,3,2	12	0	84.6	
20		03 14	702	655	15 27	47	14 58	61.7	46.5	00 00	15.2	16 32	1286	1246	03 39	40	3,3,2,2,2,3,1,2	18	0	84.6	
21		06 41	700	640	15 51	60	14 46	63.4	46.4	22 01	17.0	16 31	1305	1257	01 23	48	2,2,1,1,3,3,2,2	16	0	84.6	
22		04 42	700	658	12 08	42	04 01	57.9	50.8	00 02	7.1	15 00	1279	1257	04 48	13	1,2,2,1,1,1,1,1	10	0	84.4	
23	q	04 46	693	669	11 33	24	13 15	54.9	50.7	09 10	4.2	21 30	1268	1259	04 48	9	1,1,0,1,1,0,1,1	6	0	84.4	
24		23 54	717	668	16 48	49	16 40	58.1	44.1	23 47	14.0	16 50	1270	1255	24 00	15	0,0,1,1,2,2,1,3	10	0	84.4	
25	d	06 14	716	626	14 31	90	14 18	64.5	37.7	19 55	26.8	19 54	1318	1236	06 02	82	4,3,3,2,3,3,4,1	23	1	84.4	
26	d	21 23	742	555	21 50	187	15 35	68.0	26.6	21 18	41.4	21 00	1312	1253	23 45	59	0,1,2,3,3,4,4,6	23	1	84.4	
27	d	04 31	713	639	10 27	74	02 53	62.6	40.5	00 07	22.1	17 00	1282	1220	04 35	62	4,4,2,2,2,3,1,3	21	1	84.4	
28		07 50	691	651	18 54	40	14 08	57.4	47.6	19 01	9.8	19 10	1283	1262	09 13	21	1,0,1,2,1,2,3,1	11	0	84.4	
29	q	06 01	687	670	10 17	17	13 41	55.4	51.4	09 02	4.0	15 30	1267	1257	11 54	10	0,0,0,0,0,0,1,0	1	0	84.4	
30		21 56	693	663	15 28	30	14 42	57.3	51.6	23 20	5.7	15 30	1267	1256	13 04	11	1,0,0,0,1,2,0,1	5	0	84.4	
31		09 00	706	653	20 15	53	17 35	58.9	45.3	20 25	13.6	20 21	1284	1251	13 22	33	1,1,2,2,2,2,3,3,2	16	0	84.4	
Mean		- -	701	645	- -	55	- -	59.2	45.5	- -	13.7	- -	1282	1252	- -	30	-	-	0.19	84.9	

DIURNAL INEQUALITIES OF THE GEOGRAPHICAL COMPONENTS OF MAGNETIC FORCE

ALL DAYS

Departures from the mean of the 24 hourly values (uncorrected for non-cyclic change)

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	Hour G.M.T.																							
	0-1	1-2	2-3	3-4	4-5	5-6	6-7	7-8	8-9	9-10	10-11	11-12	12-13	13-14	14-15	15-16	16-17	17-18	18-19	19-20	20-21	21-22	22-23	23-24
NORTH COMPONENT																								
Jan.	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ
Feb.	-1.5	-8.5	-3.0	-2.6	+0.4	+2.6	+4.9	+5.5	+4.9	+2.5	-0.2	-2.3	-2.2	-0.8	-3.0	-2.6	+0.1	+0.7	-0.7	+0.1	+1.8	+2.9	+1.1	-0.3
Mar.	+5.0	+0.1	-3.1	-1.6	+1.8	+6.6	+6.3	+8.7	+6.8	+2.9	-1.7	-6.9	-5.0	-2.7	-2.6	-5.2	-5.3	-2.6	-3.9	-3.4	-0.9	+2.3	+2.6	+1.7
Apr.	+3.6	+2.7	+1.3	+2.1	+4.1	+7.1	+5.0	+0.1	-1.1	-4.5	-8.2	-13.4	-14.6	-8.6	-5.2	+1.6	+0.1	+1.9	+3.4	+3.4	+5.6	+5.7	+4.1	+3.9
May	+2.4	+3.4	+1.8	+2.6	+3.5	+4.2	+4.1	+2.6	-2.7	-13.0	-21.9	-23.1	-16.7	-12.9	-7.4	+0.1	+6.1	+10.9	+14.0	+13.1	+9.7	+6.1	+5.2	+7.8
June	+7.1	+5.8	+2.3	+2.5	+2.4	+0.5	-2.1	-6.1	-14.1	-22.6	-25.3	-24.4	-19.1	-13.4	-4.3	+2.8	+7.6	+16.8	+19.8	+19.0	+14.6	+12.5	+7.7	+10.0
July	+7.0	+5.8	+6.2	+4.9	+8.0	+5.3	+0.4	-7.3	-16.2	-23.6	-28.1	-28.0	-21.6	-14.8	-9.5	-1.3	+7.1	+14.8	+18.9	+20.2	+17.8	+12.1	+11.7	+10.0
Aug.	+5.6	+5.4	+5.0	+6.1	+6.8	+5.7	+2.0	-2.3	-10.4	-19.4	-24.8	-26.6	-26.1	-19.6	-8.8	-0.3	+6.7	+13.0	+18.1	+17.9	+16.6	+12.6	+9.3	+7.5
Sept.	+7.9	+6.2	+5.6	+7.4	+6.6	+5.3	-0.1	-6.5	-14.4	-19.5	-24.7	-26.4	-21.5	-13.5	-7.5	-2.5	+4.6	+12.9	+14.1	+15.5	+15.7	+12.7	+12.1	+10.0
Oct.	+12.7	+6.9	+9.3	+9.5	+11.9	+12.3	+6.9	+1.1	-9.4	-21.3	-29.5	-29.0	-21.7	-14.0	-7.3	-4.6	-2.6	+4.1	+7.8	+11.8	+10.9	+10.8	+10.4	+12.8
Nov.	+6.4	+6.7	+6.2	+6.1	+10.3	+12.2	+10.6	+6.4	-2.5	-12.1	-21.2	-23.1	-19.6	-17.0	-10.3	-6.4	-1.9	+2.2	+3.4	+7.6	+9.3	+8.9	+9.0	+8.9
Dec.	+7.1	+4.9	+4.9	+5.9	+9.9	+10.7	+12.1	+9.0	+1.5	-6.1	-14.8	-19.8	-17.4	-10.9	-1.9	-4.0	-4.7	-2.9	-0.7	+1.5	+2.4	+3.4	+4.6	+4.9
Year	+1.0	+1.1	+1.1	+4.5	+8.1	+9.5	+9.2	+8.4	+5.7	+1.0	-5.4	-9.7	-10.4	-8.5	-7.3	-5.9	-5.8	-0.8	+1.1	+0.2	-0.7	+1.9	+0.5	+1.3
Winter	+5.4	+3.4	+3.1	+4.0	+6.1	+6.7	+4.9	+1.6	-4.3	-11.3	-17.1	-19.4	-16.3	-11.4	-6.3	-2.4	+1.0	+6.0	+8.0	+8.9	+8.6	+7.7	+6.5	+6.5
Equinox	+3.0	-0.6	0.0	+1.7	+5.1	+7.3	+8.1	+7.9	+4.7	+0.1	-5.5	-9.7	-8.7	-5.7	-3.7	-4.4	-3.9	-1.3	-1.1	-0.4	+0.7	+2.6	+2.2	+1.8
Summer	+6.3	+4.9	+4.7	+5.1	+7.5	+8.9	+6.6	+2.5	-4.0	-12.7	-20.2	-22.1	-18.1	-13.1	-7.5	-2.4	+0.4	+4.8	+7.1	+8.9	+8.8	+7.9	+7.1	+8.3
	+6.9	+5.8	+4.8	+5.2	+6.0	+4.2	0.0	-5.5	-13.8	-21.3	-25.7	-26.3	-22.1	-15.3	-7.7	-0.3	+6.5	+14.4	+17.7	+18.2	+16.1	+12.5	+10.2	+9.3
WEST COMPONENT																								
Jan.	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ
Feb.	-7.5	-9.0	-10.2	-4.7	-3.1	-1.5	+2.3	+1.0	0.0	+1.2	+4.7	+7.7	+11.8	+13.4	+12.5	+8.6	+7.9	+3.7	+1.3	-1.5	-7.7	-11.3	-10.2	-9.3
Mar.	-7.1	-7.1	-9.0	-8.0	-6.4	-8.9	-5.5	-1.5	+0.8	+2.3	+5.5	+11.1	+15.9	+17.9	+15.2	+11.4	+6.5	+3.9	0.0	-6.2	-6.6	-7.3	-7.9	-9.1
Apr.	-5.8	-7.4	-11.2	-11.8	-10.1	-8.3	-5.9	-3.3	-3.0	+3.0	+12.4	+20.6	+25.8	+25.0	+18.6	+10.3	+1.3	-2.2	-2.7	-8.2	-15.3	-8.3	-10.3	-13.3
May	-9.1	-8.3	-8.8	-12.0	-11.9	-10.9	-9.8	-10.9	-13.4	-11.2	-2.4	+11.3	+23.9	+29.7	+25.6	+21.5	+18.2	+15.0	+8.5	+1.0	-7.5	-12.1	-13.2	-13.3
June	-7.7	-9.5	-7.7	-7.6	-12.5	-16.1	-20.3	-22.8	-24.0	-17.8	-5.3	+8.6	+19.4	+24.5	+25.8	+23.1	+19.1	+17.3	+13.4	+7.2	+4.7	-0.4	-4.0	-7.3
July	-6.0	-6.0	-8.3	-10.4	-14.0	-21.1	-25.6	-26.5	-23.2	-16.0	-6.9	+6.6	+18.3	+22.9	+24.2	+22.4	+19.6	+16.3	+13.7	+10.4	+6.9	+2.5	+0.9	-0.6
Aug.	-2.6	-2.3	-5.9	-10.4	-14.7	-19.5	-23.4	-24.3	-24.7	-19.3	-8.1	+4.2	+17.3	+24.4	+27.0	+24.4	+19.7	+15.1	+12.2	+9.7	+3.2	+1.1	-0.2	-2.7
Sept.	-6.4	-7.7	-7.3	-9.9	-13.6	-15.9	-18.1	-18.2	-17.9	-12.5	-0.3	+13.5	+24.0	+28.0	+24.5	+17.4	+11.0	+8.1	+4.7	+7.0	+3.2	-3.2	-5.1	-5.2
Oct.	-9.1	-8.3	-8.8	-12.0	-11.9	-10.9	-9.8	-10.9	-13.4	-11.2	-2.4	+11.3	+23.9	+29.7	+25.6	+21.5	+18.2	+15.0	+8.5	+1.0	-7.5	-12.1	-13.2	-13.3
Nov.	-6.7	-4.6	-4.6	-1.7	-1.5	-2.7	-3.1	-6.4	-11.1	-11.8	-3.8	+9.2	+19.7	+23.3	+23.5	+16.3	+5.9	-1.7	-0.6	-4.3	-6.2	-8.6	-10.9	-7.6
Dec.	-7.9	-4.0	-4.3	-2.9	+1.5	-1.1	-0.1	-3.4	-6.9	-7.0	-3.2	+6.6	+15.2	+19.6	+21.7	+16.2	+10.1	+2.1	-1.0	-8.3	-9.5	-10.5	-10.3	-12.7
Year	-11.4	-6.2	-3.6	-2.0	-2.5	-1.2	-1.2	-0.6	-2.7	-3.9	-0.6	+5.1	+11.1	+15.5	+15.6	+14.0	+10.5	+7.7	+4.7	-0.6	-7.3	-12.5	-12.9	-15.0
Winter	-7.1	-6.5	-7.1	-7.4	-8.1	-9.6	-9.6	-10.5	-11.6	-9.1	-1.4	+9.0	+18.3	+22.5	+22.0	+17.5	+12.1	+7.6	+4.5	+0.6	-3.3	-7.0	-7.3	-8.4
Equinox	-8.5	-6.6	-6.7	-4.4	-2.6	-3.2	-1.1	-1.1	-2.2	-1.9	+1.6	+7.6	+13.5	+16.6	+16.3	+12.5	+8.8	+4.3	+1.2	-4.1	-7.8	-10.4	-10.3	-11.5
Summer	-7.8	-6.5	-7.3	-8.3	-8.0	-7.3	-5.9	-7.3	-10.1	-8.9	-0.6	+11.3	+21.7	+26.1	+24.3	+18.1	+10.0	+4.4	+1.1	-2.5	-6.7	-10.6	-9.6	-9.7
	-5.7	-6.3	-7.3	-9.6	-13.7	-18.2	-21.8	-22.9	-22.5	-16.4	-5.2	+8.2	+19.7	+24.9	+25.3	+21.8	+17.3	+14.2	+11.0	+8.6	+4.5	0.0	-2.1	-4.0
VERTICAL COMPONENT																								
Jan.	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ
Feb.	-2.4	-10.0	-7.4	-7.1	-7.0	-6.2	-5.5	-3.8	-2.1	-0.8	-0.4	-0.5	-0.6	+1.2	+3.6	+5.5	+5.1	+6.6	+7.3	+7.6	+7.0	+5.5	+2.3	+2.1
Mar.	-0.8	-3.1	-3.8	-5.7	-7.3	-8.1	-6.3	-6.2	-5.6	-5.3	-5.2	-5.8	-5.5	-3.7	+1.4	+6.1	+9.1	+9.7	+10.0	+11.7	+10.5	+7.2	+3.8	+2.9
Apr.	-3.0	-5.9	-8.0	-7.2	-5.9	-5.3	-5.2	-5.1	-6.7	-7.7	-9.8	-11.3	-9.7	-5.5	+2.5	+11.9	+13.6	+17.0	+16.0	+14.2	+11.7	+8.0	+2.0	-0.6
May	-13.8	-11.1	-8.3	-4.8	-3.1	-2.4	-2.2	-1.4	-2.0	-4.3	-6.8	-9.2	-8.9	-2.9	+4.5	+8.0	+11.0	+15.3	+19.6	+18.6	+13.1	+3.3	-4.5	-7.7
June	-9.6	-6.9	-6.3	-5.0	-2.8	-1.7	+1.2	+2.1	+1.3	-3.1	-8.1	-11.3	-10.4	-4.7	+1.5	+6.9	+9.5	+10.7	+12.4	+12.0	+10.4	+7.2	+0.7	-6.0
July	-2.4	-3.6	-5.4	-4.9	-2.9	-1.1	-0.8	-0.6	-2.1	-5.5	-8.8	-11.4	-9.3	-5.5	-0.8	+2.9	+6.8	+10.6	+11.8	+11.6	+10.3	+7.6	+3.8	-0.3
Aug.	-0.2	-3.8	-3.2	-2.1	-0.1	+0.6	-0.7	-1.3	-2.2	-5.1	-8.3	-11.8	-10.8	-7.5	-2.8	+1.7	+7.3	+10.0	+10.4	+9.7	+8.7	+6.0	+3.7	+1.8
Sept.	-3.1	-3.2	-3.4	-2.4	0.0	0.0	-0.8	-1.8	-3.5	-6.9	-10.1	-12.7	-12.0	-6.6	+2.4	+8.6	+10.9	+12.1	+11.4	+8.9	+7.3	+5.3	+1.5	-1.9
Oct.	-6.0	-8.7	-9.9	-9.0	-8.3	-7.4	-6.5	-4.2	-2.7	-3.1	-5.0	-5.6	-4.5	-1.0	+4.1	+9.8	+13.4	+14.2	+13.4	+11.3	+8.6	+5.6	+2.4	-0.9
Nov.	-5.9	-5.3	-5.4	-6.9	-7.7	-6.3	-4.8	-2.0	-0.7	-0.4	-3.8	-6.0	-4.8	-1.0	+3.8	+9.8	+13.6	+13.3	+11.7	+8.4	+3.2	+1.1	-0.9	-3.0
Dec.	-7.4	-10.5	-10.1	-9.7	-11.5	-10.9	-9.8	-7.0	-4.0	-3.7	-4.6	-4.5	-2.0	+1.4	+12.1	+14.8	+11.9	+15.1	+16.6	+13.5	+8.9	+4.8	-0.2	-3.2
Year	-1.9	-3.8	-4.7	-5.8	-6.7	-7.2	-6.4	-5.3	-4.4	-3.8	-4.3	-5.0	-3.9	-1.3	+3.0	+6.6	+9.0	+8.3	+8.9	+9.7	+8.9	+6.6	+2.9	+0.6
Winter	-4.7	-6.3	-6.3	-5.9	-5.3	-4.7	-4.0	-3.1	-2.9	-4.1	-6.3	-7.9	-6.9	-3.1	+2.9	+7.7	+10.1	+11.9	+12.4	+11.4	+9.1	+5.7	+1.5	-1.4
Equinox	-3.1	-6.9	-6.5	-7.1	-8.1	-8.1	-7.0	-5.6	-4.0	-3.4	-3.6	-3.9	-3.0	-0.6	+5.0	+8.3	+8.8	+9.9	+10.7	+10.6	+8.8	+6.0	+2.2	+0.6
Summer	-7.2	-7.7	-7.9	-7.0	-6.3	-5.3	-4.7	-3.2	-3.0	-3.9	-6.3	-8.0	-7.0	-2.6	+3.7	+9.9	+12.9	+14.9	+15.2	+13.1	+9.1	+4.5	-0.3	-3.1
	-3.8	-4.4	-4.6	-3.6	-1.5	-0.5	-0.3	-0.4	-1.6	-5.1	-8.8	-11.8	-10.6	-6.1	+0.1	+5.0	+8.6	+10.9	+11.5	+10.5	+9.2	+6.5	+2.4	-1.6

"Winter" comprises the four months, January, February, November, December; "Equinox" the months March, April, September, October; and "Summer" May to August.

ALL DAYS

Departures from the mean of the 24 hourly values (uncorrected for non-cyclic change)

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Hour G.M.T.	0-1	1-2	2-3	3-4	4-5	5-6	6-7	7-8	8-9	9-10	10-11	11-12	12-13	13-14	14-15	15-16	16-17	17-18	18-19	19-20	20-21	21-22	22-23	23-24
DECLINATION (measured positive towards the west)																								
Jan.	-1.47	-1.49	-1.95	-0.84	-0.64	-0.41	+0.28	-0.02	-0.20	+0.15	+0.96	+1.65	+2.47	+2.75	+2.66	+1.84	+1.59	+0.71	+0.29	-0.31	-1.64	-2.40	-2.11	-1.87
Feb.	-1.63	-1.45	-1.70	-1.56	-1.36	-2.07	-1.35	-0.65	-0.10	+0.35	+1.19	+2.52	+3.41	+3.74	+3.18	+2.51	+1.52	+0.90	+0.15	-1.12	-1.30	-1.58	-1.70	-1.90
Mar.	-1.32	-1.60	-2.32	-2.47	-2.20	-1.96	-1.38	-0.68	-0.57	-0.50	+0.94	+3.03	+4.75	+5.57	+5.27	+3.70	+2.08	+0.20	-0.57	-0.68	-1.88	-3.32	-1.85	-2.24
Apr.	-1.93	-1.81	-1.86	-2.53	-2.55	-2.37	-2.14	-2.30	-2.60	-1.75	+0.37	+3.20	+5.50	+6.52	+5.47	+4.34	+3.45	+2.61	+1.17	-0.31	-1.90	-2.69	-2.88	-3.01
May	-1.84	-2.14	-1.66	-1.63	-2.63	-3.28	-4.02	-4.37	-4.30	-2.72	-0.09	+2.69	+4.68	+5.49	+5.39	+4.56	+3.56	+2.84	+1.93	+0.71	+0.39	-0.58	-1.11	-1.87
June	-1.49	-1.44	-1.93	-2.29	-3.15	-4.49	-5.20	-5.09	-4.06	-2.32	-0.30	+2.43	+4.54	+5.21	+5.28	+4.58	+3.70	+2.72	+2.03	+1.31	+0.71	+0.03	-0.27	-0.51
July	-0.74	-0.67	-1.40	-2.35	-3.25	-4.18	-4.81	-4.84	-4.59	-3.15	-0.67	+1.90	+4.52	+5.71	+5.81	+4.96	+3.72	+2.54	+1.76	+1.26	-0.01	-0.28	-0.40	-0.84
Aug.	-1.61	-1.81	-1.69	-2.31	-3.01	-3.43	-3.66	-3.44	-3.07	-1.76	+0.91	+3.76	+5.71	+6.19	+5.26	+3.63	+2.04	+1.13	+0.41	+0.81	+0.03	-1.15	-1.50	-1.44
Sept.	-2.43	-1.41	-1.29	-1.89	-2.21	-1.99	-1.23	-1.73	-2.26	-1.05	+1.31	+3.59	+5.40	+5.68	+4.96	+3.43	+1.25	+0.40	-0.57	-1.23	-1.39	-1.72	-1.59	-2.03
Oct.	-1.61	-1.19	-1.18	-0.59	-0.70	-1.02	-1.05	-1.55	-2.15	-1.92	+0.06	+2.77	+4.75	+5.38	+5.16	+3.56	+1.26	-0.42	-0.25	-1.17	-1.62	-2.08	-2.56	-1.88
Nov.	-1.88	-1.00	-1.06	-0.82	-0.09	-0.65	-0.50	-1.04	-1.46	-1.18	-0.07	+2.11	+3.75	+4.40	+4.48	+3.44	+2.24	+0.54	-0.18	-1.73	-2.01	-2.25	-2.27	-2.77
Dec.	-2.34	-1.29	-0.77	-0.58	-0.82	-0.61	-0.60	-0.45	-0.77	-0.83	+0.09	+1.41	+2.65	+3.48	+3.45	+3.06	+2.35	+1.59	+0.90	-0.13	-1.46	-2.60	-2.64	-3.09
Year	-1.68	-1.44	-1.57	-1.65	-1.88	-2.21	-2.14	-2.18	-2.18	-1.39	+0.39	+2.59	+4.34	+5.01	+4.70	+3.63	+2.40	+1.31	+0.59	-0.22	-1.01	-1.72	-1.74	-1.95
Winter	-1.83	-1.31	-1.37	-0.95	-0.73	-0.93	-0.54	-0.54	-0.63	-0.38	+0.54	+1.92	+3.07	+3.59	+3.44	+2.71	+1.93	+0.93	+0.29	-0.82	-1.60	-2.21	-2.18	-2.41
Equinox	-1.82	-1.50	-1.66	-1.87	-1.91	-1.83	-1.45	-1.57	-1.89	-1.31	+0.67	+3.15	+5.10	+5.79	+5.21	+3.76	+2.01	+0.70	-0.05	-0.85	-1.70	-2.45	-2.22	-2.29
Summer	-1.42	-1.51	-1.67	-2.15	-3.01	-3.85	-4.42	-4.43	-4.01	-2.49	-0.04	+2.69	+4.86	+5.65	+5.43	+4.43	+3.25	+2.31	+1.53	+1.02	+0.28	-0.49	-0.82	-1.17
INCLINATION																								
Jan.	+0.13	+0.42	+0.15	+0.05	-0.16	-0.31	-0.48	-0.47	-0.37	-0.20	-0.06	+0.04	-0.02	-0.09	+0.13	+0.19	+0.02	+0.07	+0.21	+0.20	+0.15	+0.09	+0.11	+0.19
Feb.	-0.26	0.00	+0.22	+0.07	-0.22	-0.52	-0.50	-0.70	-0.59	-0.35	-0.09	+0.17	-0.01	-0.14	+0.01	+0.34	+0.49	+0.36	+0.50	+0.59	+0.40	+0.12	+0.02	+0.08
Mar.	-0.23	-0.23	-0.14	-0.16	-0.29	-0.49	-0.38	-0.09	-0.06	+0.15	+0.26	+0.45	+0.46	+0.10	-0.09	-0.05	+0.19	+0.28	+0.20	+0.16	+0.03	+0.02	-0.11	-0.14
Apr.	-0.38	-0.39	-0.21	-0.14	-0.16	-0.20	-0.20	-0.07	+0.30	+0.89	+1.31	+1.15	+0.58	+0.40	+0.27	-0.08	-0.36	-0.53	-0.55	-0.42	-0.22	-0.17	-0.29	-0.53
May	-0.60	-0.43	-0.21	-0.19	-0.07	+0.13	+0.43	+0.74	+1.26	+1.64	+1.53	+1.21	+0.75	+0.45	-0.01	-0.31	-0.51	-1.06	-1.17	-1.04	-0.76	-0.64	-0.44	-0.71
June	-0.44	-0.40	-0.43	-0.31	-0.42	-0.11	+0.28	+0.80	+1.31	+1.62	+1.72	+1.47	+0.95	+0.55	+0.29	-0.13	-0.56	-0.92	-1.12	-1.17	-1.00	-0.64	-0.69	-0.66
July	-0.34	-0.42	-0.33	-0.32	-0.26	-0.11	+0.15	+0.43	+0.94	+1.39	+1.53	+1.40	+1.23	+0.79	+0.17	-0.25	-0.51	-0.80	-1.09	-1.06	-0.92	-0.69	-0.52	-0.41
Aug.	-0.51	-0.39	-0.36	-0.42	-0.26	-0.15	+0.21	+0.61	+1.09	+1.27	+1.38	+1.25	+0.82	+0.37	+0.24	+0.17	-0.17	-0.65	-0.70	-0.89	-0.89	-0.67	-0.69	-0.64
Sept.	-0.86	-0.59	-0.80	-0.75	-0.88	-0.90	-0.55	-0.07	+0.72	+1.44	+1.80	+1.61	+1.03	+0.56	+0.29	+0.34	+0.43	+0.04	-0.17	-0.45	-0.44	-0.49	-0.55	-0.77
Oct.	-0.48	-0.51	-0.48	-0.55	-0.85	-0.92	-0.77	-0.39	+0.29	+0.93	+1.35	+1.25	+0.92	+0.80	+0.47	+0.46	+0.38	+0.21	+0.07	-0.23	-0.45	-0.45	-0.48	-0.56
Nov.	-0.55	-0.53	-0.52	-0.59	-0.95	-0.96	-1.04	-0.72	-0.11	+0.40	+0.90	+1.11	+0.90	+0.50	+0.14	+0.42	+0.47	+0.53	+0.47	+0.34	+0.18	+0.02	-0.18	-0.24
Dec.	+0.03	-0.09	-0.14	-0.41	-0.67	-0.79	-0.75	-0.67	-0.45	-0.11	+0.25	+0.45	+0.45	+0.33	+0.35	+0.37	+0.47	+0.16	+0.09	+0.23	+0.36	+0.19	+0.21	+0.12
Year	-0.38	-0.29	-0.27	-0.31	-0.43	-0.43	-0.30	-0.05	+0.36	+0.75	+0.99	+0.96	+0.67	+0.39	+0.21	+0.12	+0.03	-0.19	-0.28	-0.31	-0.30	-0.27	-0.30	-0.35
Winter	-0.16	-0.05	-0.07	-0.22	-0.50	-0.64	-0.69	-0.64	-0.38	-0.06	+0.25	+0.45	+0.33	+0.15	+0.16	+0.33	+0.36	+0.28	+0.32	+0.34	+0.27	+0.11	+0.04	+0.03
Equinox	-0.49	-0.43	-0.41	-0.40	-0.54	-0.63	-0.48	-0.15	+0.31	+0.85	+1.18	+1.11	+0.75	+0.47	+0.28	+0.17	+0.16	0.00	-0.11	-0.23	-0.27	-0.27	-0.35	-0.50
Summer	-0.47	-0.41	-0.33	-0.31	-0.26	-0.06	+0.27	+0.65	+1.15	+1.48	+1.54	+1.34	+0.94	+0.54	+0.18	-0.13	-0.44	-0.86	-1.02	-1.05	-0.89	-0.66	-0.58	-0.60
HORIZONTAL FORCE																								
Jan.	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ
Feb.	-2.9	-10.0	-4.9	-3.4	-0.2	+2.3	+5.2	+5.6	+4.8	+2.7	+0.7	-0.8	+0.1	+1.8	-0.6	-0.9	+1.6	+1.4	-0.4	-0.2	+0.3	+0.7	-0.8	-2.1
Mar.	+3.6	-1.2	-4.7	-3.1	+0.6	+4.8	+5.1	+8.2	+6.8	+3.3	-0.6	-4.7	-1.9	+0.7	+0.3	-2.9	-4.0	-1.8	-3.8	-4.5	-2.1	+0.9	+1.1	-0.1
Apr.	+2.4	+1.3	-0.9	-0.2	+2.1	+5.4	+3.8	-0.5	-1.6	-5.1	-7.5	-10.8	-10.4	-3.5	-0.4	+5.1	+2.1	+2.1	+2.9	+2.8	+3.9	+2.7	+2.4	+1.9
May	+0.6	+1.8	+0.1	+0.3	+1.2	+2.1	+2.2	+0.5	-5.2	-14.9	-22.0	-20.5	-11.9	-7.0	-2.4	+4.2	+9.4	+13.5	+15.4	+13.1	+8.1	+3.7	+2.6	+5.1
June	+5.5	+3.9	+0.8	+1.0	0.0	-2.6	-5.9	-10.3	-18.4	-25.6	-25.8	-22.3	-15.1	-8.5	+0.7	+7.1	+11.1	+19.8	+22.0	+20.0	+15.2	+12.2	+6.8	+8.4
July	+5.7	+4.6	+4.5	+2.8	+5.2	+1.2	-4.5	-12.2	-20.3	-26.2	-28.9	-26.2	-17.7	-10.2	-4.7	+3.0	+10.7	+17.6	+21.2	+21.8	+18.8	+12.4	+11.7	+9.7
Aug.	+5.0	+4.9	+3.8	+4.0	+3.9	+1.9	-2.5	-6.9	-14.9	-22.7	-25.9	-25.3	-22.3	-14.6	-3.5	+4.3	+10.3	+15.6	+20.1	+19.4	+16.9	+12.6	+9.1	+6.8
Sept.	+6.5	+4.6	+4.1	+5.4	+3.9	+2.2	-3.5	-9.8	-17.5	-22.7	-28.3	-23.4	-16.6	-7.9	-2.7	+0.8	+6.6	+14.2	+14.7	+16.6	+16.0	+11.9	+10.9	+8.8
Oct.	+10.6	+5.7	+8.3	+7.9	+10.1	+10.7	+5.9	-0.5	-11.7	-22.7	-28.8	-26.2	-17.0	-8.8	-2.8	-1.5	-1.5	+4.6	+7.4	+10.9	+9.8	+9.4	+9.1	+11.1
Nov.	+5.0	+5.7	+5.2	+5.7	+9.8	+11.5	+9.8	+5.1	-4.6	-14.1	-21.5	-20.9	-15.5	-12.3	-5.7	-3.2	-0.7	+1.8	+3.2	+6.6	+7.9	+7.1	+6.8	+7.3
Dec.	+5.5	+4.1	+4.0	+5.3	+10.0	+10.3	+11.9	+8.2	+0.2	-7.3	-15.1	-18.2	-14.2	-7.0	+2.3	-0.9	-2.7	-2.4	-0.9	-0.1	+0.6	+1.4	+2.6	+2.4
Year	+3.9	+2.1	+1.7	+2.5	+4.5	+4.7	+3.0	-0.4	-6.4	-12.8	-17.1	-17.3	-12.5	-6.9	-2.0	+1.0	+3.3	+7.3	+8.7	+8.9	+7.8	+6.2	+5.0	+4.8
Winter	+1.3	-1.8	-1.3	+0.7	+4.5	+6.6	+7.7	+7.5	+4.2	-0.3	-5.1	-8.1	-6.0	-2.5	-0.5	-1.9	-2.2	-0.5	-0.8	-1.2	-0.8	+0.6	+0.2	-0.3
Equinox	+4.7	+3.6	+3.2	+3.4	+5.8	+7.4	+5.4	+1.1	-5.8	-14.2	-19.9	-19.6	-13.7	-7.9	-2.8	+1.1	+2.3	+5.5	+7.2	+8.3	+7.4	+5.7	+5.2	+6.3
Summer	+5.7	+4.5	+3.3	+3.3	+3.3	+0.7	-4.1	-9.8	-17.8	-24.0	-26.2	-24.3	-17.9	-10.3	-2.7	+3.8	+9.7	+16.8	+19.5	+19.5	+16.7	+12.3	+9.6	+8.4

"Winter" comprises the four months January, February, November, December; "Equinox" the months March, April, September, October; and "Summer" May to August.

DIURNAL INEQUALITIES OF THE GEOGRAPHICAL COMPONENTS OF MAGNETIC FORCE
INTERNATIONAL QUIET DAYS

Departures from the mean of the 24 hourly values (uncorrected for non-cyclic change)

143 ESKDALEMUIR

	Hour G.M.T.																							
	0-1	1-2	2-3	3-4	4-5	5-6	6-7	7-8	8-9	9-10	10-11	11-12	12-13	13-14	14-15	15-16	16-17	17-18	18-19	19-20	20-21	21-22	22-23	23-24
NORTH COMPONENT																								
Jan.	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ
Feb.	-2.1	-3.5	-2.9	-0.8	+1.8	+3.6	+5.4	+6.3	+6.4	+2.5	-1.8	-4.6	-5.5	-3.1	-2.5	-2.3	-1.3	-0.3	-0.6	0.0	+1.8	+1.5	+1.5	+0.6
Mar.	-0.7	-2.3	-3.7	-3.3	-1.5	+1.4	+2.9	+4.8	+4.0	+1.0	-1.8	-5.2	-4.6	-1.6	+0.4	-1.9	-1.5	-1.4	+0.2	+1.6	+1.9	+1.2	+5.1	+5.3
Apr.	-0.3	-0.4	-0.9	+0.6	+2.5	+5.4	+5.8	+5.3	+3.2	-2.3	-7.7	-10.7	-11.0	-7.7	-3.1	-0.1	+0.2	+1.5	+3.9	+5.6	+2.0	+0.3	+2.7	+5.4
May	+5.7	+3.5	+2.7	+1.0	+2.7	+4.5	+4.0	+2.9	-1.5	-10.4	-19.6	-23.2	-20.0	-16.5	-11.4	-2.3	+6.0	+7.7	+12.5	+13.3	+9.5	+8.9	+10.7	+9.2
June	+6.4	+5.6	+5.0	+4.0	+5.5	+5.0	-0.4	-7.4	-14.1	-20.3	-24.8	-23.6	-19.1	-10.5	-4.1	+2.0	+6.7	+12.0	+14.5	+13.1	+12.4	+10.1	+10.9	+11.3
July	+10.3	+7.8	+6.9	+7.8	+8.6	+6.0	+0.3	-9.0	-18.4	-24.1	-28.4	-28.1	-22.9	-15.9	-4.5	+2.7	+7.8	+14.4	+17.3	+17.1	+15.2	+10.6	+10.9	+7.6
Aug.	+5.3	+4.9	+4.5	+6.3	+6.4	+4.9	+1.9	-1.3	-12.6	-21.3	-26.9	-24.6	-20.5	-13.9	-5.6	+1.3	+5.7	+9.6	+13.6	+14.8	+14.8	+13.8	+9.6	+9.5
Sept.	+5.5	+4.4	+4.2	+4.7	+5.2	+4.3	-1.1	-8.5	-14.0	-17.8	-20.4	-22.3	-16.3	-12.2	-5.3	-0.1	+4.2	+13.2	+12.7	+14.1	+12.3	+12.8	+11.1	+9.4
Oct.	+5.9	+4.8	+6.1	+4.8	+5.5	+6.2	+5.8	+2.8	-4.9	-14.8	-21.2	-23.0	-19.5	-16.6	-12.3	-6.7	-1.1	+5.5	+11.0	+12.3	+12.6	+12.7	+12.2	+11.9
Nov.	+4.7	+4.3	+4.1	+4.5	+5.6	+5.7	+5.4	+3.5	-1.3	-9.7	-17.1	-19.3	-15.4	-10.0	-6.0	-2.4	+1.7	+4.4	+6.4	+6.6	+5.3	+6.2	+6.5	+6.5
Dec.	+4.5	+4.1	+2.1	+3.4	+5.1	+6.0	+7.4	+7.0	+2.0	-7.5	-16.1	-20.5	-19.9	-14.4	-7.3	-3.0	+0.9	+4.1	+6.0	+7.3	+7.8	+8.5	+6.2	+6.1
Year	-3.3	-1.9	-0.5	+1.0	+4.4	+5.3	+5.7	+4.8	+4.9	-0.5	-7.0	-11.9	-12.3	-8.2	-4.0	-1.7	+1.5	+3.6	+4.7	+3.9	+4.2	+3.6	+1.8	+1.9
Winter	+3.3	+2.6	+2.3	+2.9	+4.3	+4.9	+3.5	+1.0	-3.8	-10.5	-16.1	-18.1	-15.6	-10.9	-5.4	-1.2	+2.5	+6.2	+8.5	+9.2	+8.3	+7.5	+7.4	+7.0
Equinox	-0.4	-0.9	-1.2	0.0	+2.4	+4.1	+5.3	+5.7	+4.3	-1.1	-6.7	-10.5	-10.6	-6.8	-3.3	-2.3	-0.1	+1.5	+2.5	+3.2	+3.9	+3.7	+3.7	+3.5
Summer	+4.2	+3.1	+3.0	+2.7	+4.1	+5.4	+5.3	+3.6	-1.1	-9.3	-16.4	-19.0	-16.4	-12.7	-8.2	-2.8	+1.7	+4.7	+8.4	+9.4	+7.4	+7.1	+7.1	+8.3
Year	+6.9	+5.7	+5.2	+5.7	+6.5	+5.0	+0.2	-6.6	-14.8	-20.9	-25.1	-24.7	-19.7	-13.1	-4.9	+1.5	+6.1	+12.3	+14.5	+14.7	+13.7	+11.8	+10.7	+9.5
WEST COMPONENT																								
Jan.	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ
Feb.	-5.3	-5.4	-3.4	-1.6	-1.4	-0.6	-0.9	-2.4	-3.1	-1.3	-0.5	+4.2	+7.1	+7.6	+5.8	+5.2	+3.1	+3.8	+3.6	+1.4	+2.7	+3.6	+5.1	+4.7
Mar.	-7.3	-4.8	-5.7	-6.0	-5.0	-4.2	-3.2	-2.5	-1.1	+1.1	+4.3	+9.2	+11.1	+14.6	+12.0	+4.7	+3.7	+3.2	-0.1	-2.0	-1.7	-6.2	-6.5	-7.7
Apr.	-9.5	-6.8	-5.3	-5.6	-6.1	-5.7	-5.2	-5.7	-8.6	-7.4	-2.7	+7.3	+15.3	+18.3	+15.7	+10.8	+4.6	+3.9	+2.5	+1.9	-0.5	-2.3	-1.9	-7.2
May	-3.8	-4.9	-7.1	-9.9	-9.1	-9.8	-12.6	-14.7	-17.2	-15.0	-6.7	+6.6	+19.9	+23.5	+17.3	+12.2	+9.6	+7.7	+6.6	+4.5	+1.9	+0.9	+0.8	-0.8
June	-0.3	-0.9	-3.7	-5.5	-11.3	-18.1	-23.1	-26.8	-26.2	-21.0	-8.5	+7.8	+18.6	+24.3	+22.2	+18.6	+13.8	+10.2	+9.5	+6.7	+4.3	+4.4	+3.5	+1.3
July	-0.3	-6.2	-8.0	-9.7	-15.7	-21.1	-23.7	-26.7	-25.3	-18.7	-9.5	+4.5	+16.2	+20.5	+22.7	+18.8	+15.9	+14.7	+13.8	+11.3	+9.5	+6.4	+6.3	+4.2
Aug.	-1.5	-3.0	-5.0	-5.0	-11.1	-18.5	-23.2	-25.0	-26.9	-20.5	-10.5	+2.6	+17.7	+28.0	+31.0	+27.5	+19.2	+11.8	+8.9	+6.9	+4.9	+0.3	-4.7	-3.7
Sept.	-2.8	-5.8	-6.3	-9.0	-13.8	-18.9	-22.1	-21.8	-20.0	-11.2	+0.5	+14.5	+24.7	+26.3	+20.7	+12.4	+7.2	+4.7	+4.6	+7.9	+7.7	+2.1	-0.2	-1.5
Oct.	-1.2	-2.0	-5.4	-7.5	-8.5	-8.3	-9.8	-14.0	-15.9	-14.6	-6.4	+5.7	+14.4	+16.6	+15.4	+12.2	+8.8	+6.7	+5.5	+2.3	+4.4	+2.1	+1.3	-1.7
Nov.	-1.2	-1.7	-2.0	-0.7	-0.5	-1.3	-3.6	-7.8	-15.3	-18.9	-10.5	+3.5	+14.3	+16.6	+14.3	+8.7	+5.1	+4.1	+2.6	+1.3	-1.3	-1.1	-1.2	-3.4
Dec.	-4.0	-4.9	-3.2	-1.0	-1.5	-1.1	-2.4	-5.0	-9.9	-12.8	-8.1	+3.3	+10.2	+14.9	+13.9	+9.1	+6.3	+4.5	+2.8	+1.9	-1.0	-4.8	-4.2	-2.8
Year	-2.2	+0.4	+1.3	+1.5	+2.5	+1.0	-2.4	-2.7	-4.0	-7.5	-5.7	-0.8	+3.9	+8.6	+7.1	+4.9	+3.8	+3.3	+2.6	+0.1	-1.6	-4.2	-5.1	-4.7
Winter	-3.3	-3.9	-4.4	-5.0	-6.8	-8.9	-11.0	-12.9	-14.4	-12.3	-5.4	+5.7	+14.5	+18.3	+16.5	+12.1	+8.4	+6.5	+5.2	+3.7	+2.0	-0.5	-1.4	-2.7
Equinox	-4.7	-3.7	-2.7	-1.8	-1.4	-1.2	-2.2	-3.1	-4.5	-5.2	-2.5	+4.0	+8.1	+11.5	+9.7	+5.9	+4.2	+3.7	+2.2	+0.4	-1.8	-4.7	-5.2	-4.9
Summer	-3.9	-3.9	-4.9	-5.9	-6.1	-6.3	-7.8	-10.6	-14.2	-14.0	-6.6	+5.7	+16.0	+18.8	+15.7	+11.0	+7.1	+5.5	+4.3	+2.5	+1.1	-0.1	-0.3	-3.3
Year	-1.2	-3.9	-5.8	-7.3	-13.0	-19.1	-23.0	-25.1	-24.6	-17.9	-7.0	+7.4	+19.3	+24.8	+24.1	+19.3	+14.0	+10.3	+9.3	+8.2	+6.6	+3.3	+1.3	+0.1
VERTICAL COMPONENT																								
Jan.	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ
Feb.	+2.1	+2.5	+2.1	+1.3	+0.5	-0.2	-0.7	-1.5	-1.9	-3.1	-2.3	-2.5	-3.5	-1.7	-0.1	+0.3	+1.1	+0.6	+1.3	+1.7	+1.3	+1.1	+0.9	+0.7
Mar.	-0.6	0.0	+0.8	+0.8	+0.4	-0.8	-1.6	-2.4	-2.2	-2.4	-3.0	-4.6	-4.8	-5.2	-3.2	+0.8	+3.2	+4.0	+4.2	+3.6	+3.6	+4.2	+3.4	+1.8
Apr.	+1.3	+0.2	0.0	+0.1	+0.4	0.0	-0.5	+0.4	+0.4	-0.7	-3.4	-8.0	-9.1	-6.6	-2.8	+0.9	+3.6	+3.4	+2.5	+2.8	+4.0	+4.9	+4.2	+2.0
May	+3.7	+3.7	+3.8	+4.1	+2.1	+1.1	+1.5	+0.9	-1.8	-4.9	-9.9	-14.1	-13.5	-8.5	-2.4	+0.7	+3.5	+4.9	+4.7	+4.5	+4.4	+4.5	+3.5	+3.5
June	+2.8	+2.6	+2.6	+3.2	+4.2	+4.4	+4.4	+4.2	+0.4	-7.0	-13.2	-16.8	-15.6	-9.0	-0.6	+3.4	+4.2	+5.4	+5.4	+4.8	+3.6	+2.8	+2.2	+1.6
July	-0.1	-0.7	-1.3	+0.5	+2.3	+2.5	+0.5	+0.3	-1.1	-5.5	-9.9	-12.1	-11.7	-8.5	-4.1	+0.7	+6.3	+9.5	+9.1	+9.3	+7.3	+4.9	+1.3	+0.5
Aug.	+1.5	+1.4	+0.8	+0.3	+1.4	+2.6	+0.9	+1.0	+1.6	-3.5	-7.4	-11.6	-13.5	-11.0	-6.0	-1.9	+5.4	+7.8	+7.7	+7.0	+6.4	+4.9	+2.8	+1.4
Sept.	+1.0	+1.6	+1.2	+1.6	+3.6	+4.3	+3.4	+2.6	-0.4	-6.4	-10.2	-14.6	-15.0	-9.6	-2.2	+2.6	+3.8	+5.7	+7.4	+6.2	+6.0	+4.2	+2.4	+0.8
Oct.	+2.0	+0.5	-1.0	-0.8	+0.2	+1.5	+2.4	+2.4	+2.2	-0.3	-3.8	-7.4	-8.2	-6.9	-4.0	-0.6	+1.2	+1.7	+2.8	+4.2	+3.4	+3.3	+3.0	+2.2
Nov.	+2.3	+1.7	+1.9	+0.9	+0.7	+0.2	+0.1	+0.9	+2.1	+0.5	+4.5	+9.3	-8.9	-6.3	-1.3	+2.1	+2.9	+1.6	+1.3	+1.7	+2.1	+2.7	+2.1	+2.5
Dec.	-1.5	-2.3	-1.8	-1.5	-1.1	-0.7	-0.9	-0.7	+1.4	+2.1	-0.5	-2.1	-1.9	-2.3	+0.8	+2.7	+3.5	+2.9	+1.9	+1.5	+1.6	+0.5	-0.1	-1.5
Year	+1.6	+1.1	-0.3	-0.8	-1.1	-1.1	-1.4	-1.1	-1.9	-1.6	-2.3	-2.9	-3.8	-1.5	+1.3	+2.8	+2.3	+1.7	+1.0	+1.5	+1.7	+1.8	+1.7	+1.3
Winter	+1.3	+1.0	+0.7	+0.8	+1.1	+1.1	+0.7	+0.6	-0.1	-2.7	-5.9	-8.9	-9.1	-6.4	-2.1	+1.2	+3.4	+4.1	+4.1	+4.1	+3.9	+3.3	+2.3	+1.4
Equinox	+0.4	+0.3	+0.2	-0.1	-0.3	-0.7	-1.1	-1.4	-1.1	-1.3	-2.0	-3.0	-3.5	-2.7	-0.3	+1.7	+2.5	+2.3	+2.1	+2.1	+2.1	+1.9	+1.5	+0.6
Summer	+2.3	+1.5	+1.2	+1.1	+0.9	+0.7	+0.9	+1.1	+0.7	-1.3	-5.4	-9.7	-9.9	-7.1	-2.6	+0.8	+2.8	+2.9	+2.8	+3.3	+3.5	+3.9	+3.2	+2.5
Year	+1.3	+1.2	+0.8	+1.4	+2.9	+3.5	+2.3	+2.0	+0.1	-5.6	-10.2	-13.8	-13.9	-9.5	-3.2	+1.2	+4.9	+7.1	+7.4	+6.6	+5.8	+4.2	+2.2	+1.1

"Winter" comprises the four months January, February, November, December; "Equinox" the months March, April, September, October; and "Summer" May to August.

DIURNAL INEQUALITIES OF THE MAGNETIC ELEMENTS, DECLINATION, INCLINATION, AND HORIZONTAL FORCE
INTERNATIONAL QUIET DAYS

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Departures from the mean of the 24 hourly values (uncorrected for non-cyclic change)

144 ESKDALEUIR

	Hour G.M.T.																							
	0-1	1-2	2-3	3-4	4-5	5-6	6-7	7-8	8-9	9-10	10-11	11-12	12-13	13-14	14-15	15-16	16-17	17-18	18-19	19-20	20-21	21-22	22-23	23-24
DECLINATION (measured positive towards the west)																								
Jan.	-0.99	-0.95	-0.57	-0.29	-0.35	-0.26	-0.39	-0.73	-0.87	-0.37	-0.03	+1.03	+1.65	+1.67	+1.27	+1.15	+0.67	+0.78	+0.75	+0.29	-0.61	-0.79	-1.09	-0.97
Feb.	-1.44	-0.88	-1.00	-1.08	-0.96	-0.91	-0.76	-0.70	-0.38	+0.18	+0.94	+2.06	+2.44	+3.02	+2.42	+1.02	+0.80	+0.71	-0.02	-0.46	-0.42	-1.30	-1.52	-1.76
Mar.	-1.91	-1.37	-1.03	-1.15	-1.33	-1.36	-1.27	-1.37	-1.87	-1.41	-0.25	+1.89	+3.53	+4.01	+3.31	+2.19	+0.95	+0.72	+0.35	+0.17	-0.17	-0.47	-0.49	-1.67
Apr.	-1.00	-1.13	-1.54	-2.05	-1.95	-2.16	-2.71	-3.09	-3.42	-2.63	-0.58	+2.25	+4.82	+5.41	+3.96	+2.55	+1.71	+1.26	+0.85	+0.39	+0.02	-0.17	-0.26	-0.53
May	-0.31	-0.40	-0.95	-1.27	-2.51	-3.86	-4.65	-5.13	-4.75	-3.46	-0.75	+2.51	+4.51	+5.34	+4.65	+3.69	+2.53	+1.60	+1.35	+0.85	+0.39	+0.50	+0.29	-0.17
June	-0.47	-1.56	-1.89	-2.27	-3.51	-4.50	-4.81	-5.05	-4.41	-2.84	-0.81	+2.01	+4.17	+4.78	+4.77	+3.71	+2.91	+2.42	+2.11	+1.63	+1.33	+0.88	+0.85	+0.55
July	-0.52	-0.79	-1.20	-1.25	-2.50	-3.95	-4.78	-5.01	-4.96	-3.31	-1.08	+1.49	+4.40	+6.21	+6.50	+5.51	+3.66	+2.01	+1.26	+0.81	+0.42	-0.49	-1.32	-1.11
Aug.	-0.79	-1.34	-1.43	-2.00	-3.00	-3.99	-4.42	-4.08	-3.51	-1.58	+0.91	+3.82	+5.63	+5.80	+4.41	+2.52	+1.30	+0.43	+0.44	+1.04	+1.07	-0.08	-0.47	-0.68
Sept.	-0.48	-0.60	-1.33	-1.70	-1.94	-1.92	-2.22	-2.94	-3.03	-2.38	-0.46	+2.06	+3.68	+4.02	+3.61	+2.74	+1.82	+1.14	+0.68	-0.02	+0.39	-0.08	-0.22	-0.82
Oct.	-0.42	-0.52	-0.56	-0.32	-0.32	-0.49	-0.94	-1.72	-3.04	-3.46	-1.46	+1.46	+3.50	+3.76	+3.14	+1.86	+0.98	+0.65	+0.28	0.00	-0.48	-0.46	-0.50	-0.94
Nov.	-0.99	-1.16	-0.73	-0.33	-0.51	-0.46	-0.77	-1.29	-2.09	-2.30	-1.01	+1.47	+2.85	+3.58	+3.09	+1.95	+1.23	+0.74	+0.33	+0.11	-0.51	-1.30	-1.09	-0.81
Dec.	-0.32	+0.15	+0.29	+0.26	+0.33	-0.01	-0.70	-0.73	-1.01	-1.50	-0.89	+0.31	+1.28	+2.07	+1.59	+1.06	+0.71	+0.53	+0.34	-0.13	-0.49	-1.00	-1.11	-1.03
Year	-0.80	-0.88	-0.99	-1.12	-1.55	-1.99	-2.37	-2.65	-2.76	-2.09	-0.46	+1.86	+3.54	+4.14	+3.56	+2.50	+1.61	+1.08	+0.73	+0.39	+0.08	-0.40	-0.58	-0.83
Winter	-0.93	-0.71	-0.50	-0.36	-0.37	-0.41	-0.65	-0.86	-1.09	-1.00	-0.25	+1.22	+2.05	+2.59	+2.09	+1.29	+0.85	+0.69	+0.35	-0.05	-0.51	-1.10	-1.20	-1.14
Equinox	-0.95	-0.91	-1.11	-1.31	-1.39	-1.48	-1.79	-2.28	-2.84	-2.47	-0.69	+1.91	+3.88	+4.30	+3.51	+2.33	+1.37	+0.94	+0.54	+0.13	-0.06	-0.29	-0.37	-0.99
Summer	-0.52	-1.02	-1.37	-1.70	-2.88	-4.07	-4.67	-4.82	-4.41	-2.80	-0.43	+2.46	+4.68	+5.53	+5.08	+3.86	+2.60	+1.61	+1.29	+1.08	+0.80	+0.20	-0.16	-0.35
INCLINATION																								
Jan.	+0.26	+0.36	+0.29	+0.11	-0.09	-0.23	-0.36	-0.42	-0.43	-0.22	+0.07	+0.17	+0.19	+0.07	+0.09	+0.09	+0.07	-0.01	+0.03	+0.04	-0.05	-0.03	-0.01	+0.04
Feb.	+0.13	+0.21	+0.33	+0.31	+0.17	-0.06	-0.19	-0.34	-0.30	-0.14	-0.01	+0.11	+0.04	-0.21	-0.26	+0.09	+0.13	+0.15	+0.09	+0.01	-0.01	+0.10	-0.17	-0.21
Mar.	+0.17	+0.12	+0.13	+0.03	-0.08	-0.28	-0.33	-0.26	-0.09	+0.23	+0.46	+0.41	+0.31	+0.11	-0.06	-0.11	+0.01	-0.06	-0.23	-0.33	-0.03	+0.13	-0.05	-0.21
Apr.	-0.24	-0.08	+0.01	+0.16	-0.01	-0.15	-0.06	+0.01	+0.27	+0.75	+1.13	+1.09	+0.73	+0.57	+0.47	+0.01	-0.43	-0.48	-0.79	-0.82	-0.54	-0.48	-0.63	-0.51
May	-0.35	-0.29	-0.22	-0.11	-0.11	+0.01	+0.43	+0.93	+1.27	+1.43	+1.41	+1.04	+0.63	+0.16	-0.03	-0.28	-0.51	-0.78	-0.94	-0.82	-0.78	-0.65	-0.71	-0.72
June	-0.67	-0.45	-0.39	-0.37	-0.31	-0.07	+0.29	+0.94	+1.50	+1.68	+1.74	+1.49	+1.01	+0.57	-0.09	-0.40	-0.56	-0.89	-1.09	-1.03	-0.94	-0.65	-0.76	-0.54
July	-0.29	-0.25	-0.21	-0.34	-0.25	-0.02	+0.20	+0.43	+1.21	+1.57	+1.72	+1.30	+0.79	+0.28	-0.17	-0.48	-0.48	-0.59	-0.81	-0.89	-0.88	-0.79	-0.50	-0.54
Aug.	-0.30	-0.17	-0.16	-0.15	-0.08	+0.07	+0.44	+0.90	+1.16	+1.15	+1.08	+0.92	+0.39	+0.23	+0.03	-0.09	-0.27	-0.78	-0.71	-0.87	-0.75	-0.76	-0.67	-0.57
Sept.	-0.33	-0.28	-0.36	-0.24	-0.25	-0.26	-0.19	+0.05	+0.58	+1.15	+1.38	+1.25	+0.89	+0.71	+0.52	+0.27	-0.01	-0.41	-0.72	-0.73	-0.80	-0.78	-0.74	-0.70
Oct.	-0.24	-0.22	-0.19	-0.27	-0.34	-0.35	-0.31	-0.11	+0.33	+0.89	+1.15	+0.99	+0.61	+0.29	+0.18	+0.10	-0.10	-0.30	-0.42	-0.41	-0.28	-0.33	-0.36	-0.32
Nov.	-0.28	-0.26	-0.14	-0.25	-0.34	-0.40	-0.48	-0.41	+0.03	+0.71	+1.15	+1.25	+1.13	+0.70	+0.32	+0.15	-0.05	-0.26	-0.38	-0.47	-0.46	-0.48	-0.36	-0.41
Dec.	+0.29	+0.15	+0.01	-0.11	-0.35	-0.39	-0.37	-0.31	-0.31	+0.09	+0.48	+0.72	+0.66	+0.39	+0.21	+0.12	-0.09	-0.24	-0.32	-0.22	-0.21	-0.14	-0.01	-0.03
Year	-0.14	-0.09	-0.08	-0.11	-0.17	-0.18	-0.08	+0.11	+0.43	+0.78	+0.98	+0.90	+0.62	+0.32	+0.09	-0.04	-0.19	-0.39	-0.52	-0.55	-0.47	-0.41	-0.41	-0.39
Winter	+0.10	+0.11	+0.12	+0.02	-0.15	-0.27	-0.35	-0.37	-0.25	+0.11	+0.43	+0.57	+0.51	+0.23	+0.09	+0.11	+0.01	-0.09	-0.14	-0.16	-0.18	-0.13	-0.14	-0.15
Equinox	-0.17	-0.12	-0.10	-0.07	-0.17	-0.26	-0.23	-0.07	+0.27	+0.76	+1.02	+0.94	+0.63	+0.42	+0.28	+0.07	-0.13	-0.31	-0.54	-0.57	-0.42	-0.37	-0.45	-0.44
Summer	-0.40	-0.29	-0.25	-0.25	-0.19	0.00	+0.34	+0.80	+1.29	+1.46	+1.49	+1.18	+0.71	+0.31	-0.07	-0.31	-0.46	-0.76	-0.89	-0.91	-0.84	-0.71	-0.66	-0.59
HORIZONTAL FORCE																								
γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ
Jan.	-3.1	-4.4	-3.5	-1.1	+1.5	+3.4	+5.1	+5.7	+5.7	+2.2	-1.9	-3.7	-4.1	-1.6	-1.3	-1.3	-0.7	+0.4	+0.1	+0.3	+1.3	+0.8	+0.5	-0.3
Feb.	-2.2	-3.2	-4.7	-4.4	-2.4	+0.6	+2.2	+4.2	+3.7	+1.2	-1.0	-3.4	-2.4	+1.2	+2.7	-1.0	-0.8	-0.8	+0.2	+1.2	+1.5	0.0	+3.8	+3.8
Mar.	-2.1	-1.7	-1.9	-0.5	+1.3	+4.2	+4.7	+4.1	+1.5	-3.7	-8.1	-9.1	-7.9	-4.1	-0.1	+1.9	+1.1	+2.2	+4.3	+5.9	+1.9	-0.1	+2.3	+3.9
Apr.	+4.9	+2.5	+1.3	-0.9	+0.9	+2.6	+1.5	+0.1	-4.7	-13.1	-20.5	-21.5	-15.9	-11.7	-7.9	+0.1	+7.7	+9.0	+13.5	+13.9	+9.7	+8.9	+10.7	+8.9
May	+6.2	+5.3	+4.2	+2.9	+3.2	+1.5	-4.8	-12.3	-18.8	-23.9	-26.0	-21.7	-15.2	-5.7	+0.2	+5.5	+9.2	+13.7	+16.0	+14.1	+13.0	+10.7	+11.4	+11.3
June	+10.0	+6.5	+5.3	+5.8	+5.5	+1.9	-4.2	-13.9	-22.9	-27.2	-29.7	-26.7	-19.4	-11.7	-0.1	+6.2	+10.7	+16.9	+19.6	+18.9	+16.7	+11.6	+11.9	+8.3
July	+4.9	+4.2	+3.5	+5.2	+4.2	+1.3	-2.6	-6.0	-17.5	-24.8	-28.4	-23.7	-16.8	-8.3	+0.4	+6.5	+9.2	+11.7	+15.0	+15.8	+15.5	+13.6	+8.5	+8.6
Aug.	+4.9	+3.2	+2.9	+2.9	+2.5	+0.6	-5.3	-12.5	-17.5	-19.6	-19.9	-19.1	-11.3	-7.0	-1.3	+2.3	+5.5	+13.8	+13.3	+15.3	+13.5	+13.0	+10.9	+8.9
Sept.	+5.6	+4.3	+5.0	+3.3	+3.8	+4.5	+3.8	+0.1	-7.8	-17.3	-22.0	-21.5	-16.4	-13.1	-9.2	-4.3	+0.6	+6.7	+11.8	+12.5	+13.2	+12.9	+12.2	+11.3
Oct.	+4.4	+3.9	+3.6	+4.3	+5.4	+5.3	+4.6	+1.9	-4.2	-13.1	-18.8	-18.3	-12.4	-6.7	-3.2	-0.7	+2.6	+5.1	+6.8	+6.7	+5.0	+5.9	+6.2	+5.7
Nov.	+3.6	+3.1	+1.5	+3.2	+4.7	+5.7	+6.8	+5.9	+0.1	-9.8	-17.3	-19.5	-17.6	-11.3	-4.5	-1.2	+2.1	+4.9	+6.4	+7.5	+7.5	+7.4	+5.3	+5.5
Dec.	-3.7	-1.8	-0.2	+1.3	+4.8	+5.4	+5.1	+4.2	+4.0	-1.9	-8.0	-11.8	-11.3	-6.4	-2.6	-0.7	+2.2	+4.2	+5.1	+3.8	+3.8	+2.7	+0.8	+1.0
Year	+2.6	+1.8	+1.4	+1.9	+2.9	+3.1	+1.4	-1.5	-6.5	-12.6	-16.8	-16.7	-12.6	-7.2	-2.2	+1.1	+4.1	+7.3	+9.3	+9.7	+8.5	+7.3	+7.0	+6.4
Winter	-1.3	-1.6	-1.7	-0.3	+2.1	+3.8	+4.8	+5.0	+3.4	-2.1	-7.1	-9.6	-8.9	-4.5	-1.4	-1.1	+0.7	+2.2	+2.9	+3.2	+3.5			

"Winter" comprises the four months January, February, November, December; "Equinox" the months March, April, September, October; and "Summer" May to August.

DIURNAL INEQUALITIES OF THE GEOGRAPHICAL COMPONENTS OF MAGNETIC FORCE
INTERNATIONAL DISTURBED DAYS

Departures from the mean of the 24 hourly values (uncorrected for non-cyclic change)

145 ESKDALEMUIR

	Hour G.M.T.																							
	0-1	1-2	2-3	3-4	4-5	5-6	6-7	7-8	8-9	9-10	10-11	11-12	12-13	13-14	14-15	15-16	16-17	17-18	18-19	19-20	20-21	21-22	22-23	23-24
NORTH COMPONENT																								
	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ
Jan.	+6.4	-38.0	-1.4	-5.5	-3.6	-3.5	+1.6	+1.7	+1.7	+0.7	-1.3	-1.5	-0.5	+6.3	-15.2	-16.1	+2.3	+7.4	+2.8	+11.6	+11.1	+7.6	+11.6	+13.6
Feb.	+13.6	+9.3	-4.8	-1.8	+4.0	+10.5	+8.6	+15.8	+13.3	+3.9	-12.0	-21.4	-16.0	-9.8	-6.9	-5.3	-7.7	+0.4	-4.1	-6.6	+3.7	+5.4	+7.4	+0.4
Mar.	+10.5	+4.3	+0.6	+11.1	+6.3	+12.2	+5.8	-6.7	-2.0	-6.1	-11.1	-16.8	-17.5	-9.6	-2.2	+17.3	+0.3	-2.8	+1.9	-2.1	-0.5	+9.4	+2.1	-4.4
Apr.	-22.5	+3.9	-3.2	+3.9	+6.7	+3.5	+2.2	-2.5	-7.1	-18.9	-29.4	-21.4	-7.4	-5.6	+1.9	+6.8	+21.5	+24.9	+34.3	+29.4	+11.1	-11.8	-20.8	+0.6
May	+5.2	+9.9	+1.8	+15.7	+2.6	-3.9	-3.9	-6.9	-23.9	-40.6	-29.9	-21.3	-26.1	-20.6	-10.4	+7.4	+17.1	+34.1	+38.5	+32.5	+22.2	+9.8	-9.7	+0.3
June	+10.0	+8.6	+13.3	-0.7	+9.2	+7.7	+2.2	-6.3	-21.2	-25.7	-30.6	-34.2	-25.7	-17.0	-16.7	-5.3	+5.8	+17.0	+24.5	+22.8	+26.3	+13.8	+13.5	+8.8
July	+6.0	+6.4	+11.4	0.0	+11.6	+8.1	+2.6	-7.8	-22.4	-26.4	-31.9	-33.5	-25.1	-16.6	-15.8	-3.2	+7.6	+18.1	+24.8	+22.2	+29.8	+14.7	+12.4	+7.3
Aug.	+11.5	+3.6	+6.0	+6.7	+5.6	+5.3	+3.2	-5.1	-13.4	-22.1	-23.4	-27.2	-20.5	-16.6	-12.3	-1.7	+7.9	+22.8	+24.0	+19.2	+12.7	+7.9	+4.1	+1.9
Sept.	+10.7	+9.0	+10.2	+14.9	+10.8	+7.4	-10.9	-17.1	-31.2	-26.6	-34.7	-39.5	-40.4	-19.7	-9.8	+2.2	+17.1	+29.1	+29.1	+25.1	+28.5	+11.3	+13.8	+10.8
Oct.	+5.8	+13.0	+10.5	+12.3	+20.1	+21.0	+17.5	+9.8	-4.0	-13.7	-25.7	-26.1	-18.0	-21.8	-16.1	-9.5	-0.1	+2.3	-6.4	+10.4	+10.5	-2.9	+3.1	+8.0
Nov.	+13.6	+12.6	+12.9	+15.3	+15.8	+15.0	+17.1	+10.8	0.0	-9.2	-25.5	-26.5	-14.6	-2.2	+32.7	+2.5	-13.5	-19.1	-9.3	-11.6	-11.3	-7.3	+2.1	-0.3
Dec.	+6.8	+7.6	+3.5	+8.5	+16.7	+16.9	+18.5	+14.5	+10.6	+4.1	-6.1	-11.9	-7.5	-3.5	-13.4	-9.8	-12.1	+1.4	+1.3	-7.5	-13.4	+3.1	-13.7	-14.4
Year	+6.6	+3.8	+5.3	+8.0	+9.7	+9.1	+6.7	+1.0	-6.9	-14.3	-21.8	-23.3	-18.4	-11.1	-6.1	-1.3	+2.7	+10.0	+11.2	+10.9	+9.2	+4.8	+1.4	+3.2
Winter	+10.1	-2.1	+2.5	+4.1	+8.2	+9.8	+11.5	+10.7	+6.5	-0.1	-11.3	-15.5	-9.7	-2.3	-0.7	-7.2	-7.7	-2.5	-2.3	-3.5	-2.3	+2.2	+1.8	-0.2
Equinox	+1.3	+5.8	+5.5	+10.4	+13.4	+11.8	+8.4	-0.3	-5.4	-14.3	-24.8	-24.5	-17.4	-12.6	-5.4	+2.6	+4.3	+7.6	+8.2	+12.4	+8.0	+2.0	-2.2	+5.1
Summer	+8.3	+7.9	+7.9	+9.6	+7.7	+5.5	0.0	-7.4	-21.9	-28.5	-29.5	-30.1	-28.0	-18.5	-12.3	+0.6	+11.3	+24.8	+27.7	+23.6	+21.9	+10.2	+4.8	+4.8
WEST COMPONENT																								
	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ
Jan.	-12.7	-13.3	-25.5	-1.8	-2.3	+0.2	+17.4	+9.0	+4.0	-0.2	+6.7	+7.5	+12.7	+21.3	+28.1	+10.3	+10.1	-3.6	-8.7	-12.7	-20.7	-10.3	-5.4	-10.2
Feb.	-6.7	-4.7	-7.9	-3.0	-6.0	-17.6	-7.3	-1.4	+1.8	+4.4	+7.4	+18.9	+24.1	+24.4	+15.9	+18.3	+12.2	+0.9	-8.8	-14.2	-14.7	-9.5	-9.7	-16.8
Mar.	-2.4	-1.8	-18.2	-26.6	-15.4	-11.3	-7.1	+1.4	+8.7	+1.6	+9.3	+18.1	+28.1	+36.6	+41.3	+26.8	+18.2	-0.3	-18.8	-22.4	-11.4	-26.2	-16.7	-11.4
Apr.	-27.1	-13.6	-11.0	-5.3	-12.5	-11.1	-9.1	-11.6	-11.8	-4.7	+0.1	+15.0	+25.7	+34.7	+30.2	+28.1	+31.1	+29.9	+19.8	+2.7	-28.8	-29.5	-22.0	-19.1
May	-33.2	-22.8	-15.0	-9.5	-16.6	-13.3	-17.8	-22.2	-27.4	-16.8	-0.4	+19.5	+27.3	+30.7	+37.6	+39.9	+35.9	+36.4	+30.5	+4.7	+2.8	-13.6	-21.5	-35.3
June	-20.2	-12.5	-15.0	-13.6	-11.4	-23.9	-27.5	-32.4	-26.3	-18.2	-11.5	+5.5	+20.2	+27.4	+29.6	+36.5	+32.8	+26.9	+21.2	+13.3	+13.8	-1.1	-4.3	-9.2
July	+1.1	-2.1	-6.8	-16.2	-24.5	-25.9	-29.0	-23.5	-18.1	-13.8	-2.8	+3.7	+18.5	+25.7	+26.0	+26.1	+23.6	+22.0	+19.3	+15.6	-7.9	-7.3	-0.9	-2.5
Aug.	-16.3	-18.0	-20.8	-13.4	-12.8	-11.6	-18.5	-10.4	-13.8	-13.0	-5.9	+11.3	+26.7	+35.4	+37.6	+33.1	+24.1	+18.4	+5.3	+4.3	-3.3	-13.1	-15.4	-9.7
Sept.	-21.2	-1.1	-3.1	-6.0	-8.3	+4.7	+22.5	+6.8	-6.5	-8.0	-0.8	+10.3	+20.5	+25.6	+26.9	+23.7	+5.6	-1.1	-13.5	-11.8	-20.3	-17.6	-13.0	-14.2
Oct.	-5.3	-3.6	-5.7	-0.7	+0.9	+0.6	+1.8	-1.8	-6.5	-7.4	+0.8	+18.3	+29.4	+39.5	+41.2	+34.9	+1.8	-14.8	-8.3	-18.7	-25.7	-29.9	-31.3	-9.5
Nov.	-8.8	-6.8	-10.1	-4.7	+11.7	+8.2	+15.2	+4.6	+2.0	-2.4	-1.2	+8.2	+21.4	+34.2	+51.0	+34.8	+18.7	-11.4	-12.3	-31.3	-32.4	-24.8	-26.0	-37.9
Dec.	-23.6	-8.6	-2.1	+0.5	-8.2	+0.9	-1.0	+1.9	0.0	0.0	+5.1	+12.3	+19.8	+26.4	+25.1	+28.8	+19.2	+10.7	+8.9	+2.0	-17.0	-39.0	-30.2	-31.8
Year	+16.1	+9.9	+12.9	+10.8	+11.8	+11.1	+7.1	+6.5	+4.7	+0.8	-8.7	-20.6	-28.1	-32.1	-32.5	-27.0	-17.0	-5.1	+1.5	+9.3	+16.6	+18.9	+15.7	+17.3
Winter	+15.7	+7.0	+11.5	+3.6	+4.1	+5.6	-1.4	+0.7	+0.6	-0.4	-8.4	-17.8	-21.7	-25.5	-28.1	-24.1	-16.8	-0.1	+4.0	+11.7	+19.9	+20.2	+17.2	+22.4
Equinox	+13.5	+6.8	+10.9	+12.9	+13.2	+8.3	+1.3	+1.1	+1.7	-1.0	-11.4	-23.4	-30.5	-36.3	-34.4	-25.4	-11.5	-0.4	+7.9	+16.3	+23.0	+24.7	+18.5	+14.5
Summer	+19.0	+15.8	+16.3	+15.8	+18.0	+19.4	+21.5	+17.7	+11.7	+3.7	-6.2	-20.5	-31.9	-34.6	-35.0	-31.3	-22.8	-14.8	-7.3	0.0	+6.9	+12.0	+11.5	+14.9
VERTICAL COMPONENT																								
	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ
Jan.	-14.2	-51.1	-35.6	-34.4	-35.6	-27.9	-22.2	-11.0	-0.6	+8.9	+11.4	+13.2	+14.2	+17.1	+23.6	+31.6	+24.2	+26.5	+22.4	+17.8	+11.2	+8.3	-0.8	+3.0
Feb.	+0.8	-5.4	-8.8	-22.2	-20.8	-16.9	-10.0	-8.6	-7.0	-6.8	-4.8	-5.6	-3.8	+2.2	+13.2	+15.6	+17.4	+18.7	+17.2	+17.8	+14.4	+5.0	-2.4	+0.8
Mar.	-14.1	-21.0	-28.7	-25.2	-18.0	-16.7	-15.8	-16.2	-19.7	-17.2	-16.5	-15.8	-11.5	-2.4	+14.5	+50.2	+39.6	+44.1	+43.0	+31.8	+17.9	+9.2	-4.5	-7.0
Apr.	-64.7	-48.6	-30.2	-17.7	-7.4	-2.4	+0.9	+5.2	+6.4	+5.3	+7.0	+5.6	+5.7	+10.8	+19.4	+19.1	+21.0	+28.2	+39.3	+39.4	+26.0	-10.7	-31.6	-26.0
May	-43.3	-28.7	-30.8	-21.9	-15.7	-15.5	-3.9	+3.9	+6.6	+6.5	+1.3	-2.7	+1.5	+10.9	+17.0	+21.3	+23.1	+20.5	+23.9	+26.9	+23.8	+17.5	-7.5	-34.7
June	-8.2	-12.8	-22.4	-22.0	-20.0	-13.1	-5.4	-1.6	-1.0	-2.8	-4.8	-6.8	-5.6	-0.2	+6.2	+10.6	+15.8	+20.9	+20.2	+19.4	+14.2	+12.6	+6.8	0.0
July	-6.2	-13.0	-9.8	-6.0	-0.6	+0.7	-1.2	-2.6	-6.6	-8.8	-10.4	-11.2	-10.2	-5.8	+2.6	+9.4	+12.6	+13.7	+16.2	+15.2	+14.2	+6.6	+1.0	+0.2
Aug.	-17.5	-17.7	-13.1	-9.1	-7.9	-11.6	-13.5	-17.5	-16.1	-16.5	-14.5	-12.5	-8.7	+0.5	+16.3	+27.1	+31.5	+32.2	+28.7	+22.7	+16.9	+11.1	-1.5	-9.3
Sept.	-14.3	-23.4	-25.7	-20.1	-17.3	-20.6	-26.7	-19.7	-10.7	-6.6	-5.1	-1.5	+1.1	+7.8	+12.5	+20.3	+32.9	+38.2	+35.1	+24.1	+18.3	+6.4	+0.3	-5.3
Oct.	-21.3	-21.0	-20.5	-26.2	-29.2	-20.9	-14.2	-7.2	-4.9	-2.8	-3.1	-2.2	+3.1	+13.4	+17.3	+28.0	+42.4	+40.3	+37.6	+23.8	+0.1	-5.0	-10.5	-17.0
Nov.	-15.8	-33.1	-35.0	-35.1	-36.0	-37.5	-36.4	-27.3	-20.6	-18.7	-14.4	-10.1	-1.6	+7.3	+54.8	+60.1	+33.2	+51.9	+56.2	+44.5				

INTERNATIONAL DISTURBED DAYS

Departures from the mean of the 24 hourly values (uncorrected for non-cyclic change)

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	Hour G.M.T.																							
	0-1	1-2	2-3	3-4	4-5	5-6	6-7	7-8	8-9	9-10	10-11	11-12	12-13	13-14	14-15	15-16	16-17	17-18	18-19	19-20	20-21	21-22	22-23	23-24
DECLINATION (measured positive towards the west)																								
Jan.	-2.83	-1.20	-5.11	-0.14	-0.32	+0.17	+3.46	+1.76	+0.75	-0.06	+1.41	+1.58	+2.61	+4.08	+6.29	+2.72	+1.96	-1.03	-1.88	-3.04	-4.65	-2.38	-1.55	-2.60
Feb.	-1.90	-1.31	-1.42	-0.53	-1.37	-3.98	-1.81	-0.91	-0.16	+0.73	+1.98	+4.67	+5.50	+5.33	+3.50	+3.91	+2.77	+0.16	-1.63	-2.61	-3.12	-2.13	-2.26	-3.41
Mar.	-0.89	-0.53	-3.71	-5.83	-3.37	-2.76	-1.67	+0.55	+1.83	+0.57	+2.31	+4.33	+6.37	+7.79	+8.45	+4.75	+3.67	+0.04	-3.89	-4.45	-2.29	-5.67	-3.47	-2.13
Apr.	-4.61	-2.90	-2.11	-1.23	-2.79	-2.38	-1.93	-2.25	-2.11	-0.22	+1.17	+3.87	+5.49	+7.24	+6.05	+5.43	+5.45	+5.08	+2.67	-0.61	-6.27	-5.50	-3.65	-3.89
May	-6.93	-5.01	-3.11	-2.53	-3.47	-2.54	-3.45	-4.23	-4.61	-1.81	+1.09	+4.79	+6.55	+7.03	+8.03	+7.79	+6.61	+6.04	+4.67	-0.31	-0.31	-3.15	-3.97	-7.17
June	-4.49	-2.87	-3.55	-2.73	-2.67	-5.14	-5.65	-6.31	-4.49	-2.67	-1.13	+2.45	+5.09	+6.21	+6.65	+7.61	+6.41	+4.78	+3.33	+1.79	+1.77	-0.77	-1.41	-2.21
July	-0.09	-0.43	-1.50	-3.55	-5.27	-5.55	-6.09	-4.69	-3.20	-1.95	+0.35	+1.73	+4.45	+5.77	+5.66	+5.31	+4.47	+3.61	+3.07	+2.49	-2.12	-1.75	-0.21	-0.51
Aug.	-3.69	-4.14	-4.75	-3.35	-3.03	-2.76	-3.61	-1.55	-1.59	-1.62	+0.13	+3.85	+7.07	+8.02	+8.09	+6.69	+4.31	+2.70	+0.03	-0.01	-1.69	-3.06	-3.69	-2.35
Sept.	-4.73	-0.30	-1.19	-1.79	-2.49	+0.54	+4.23	+1.45	-0.97	-0.90	+1.15	+3.39	+5.21	+5.70	+5.65	+4.97	+1.31	-0.46	-2.87	-2.87	-4.55	-4.08	-2.89	-3.51
Oct.	-1.31	-1.23	-1.56	-0.63	-0.61	-0.69	-0.31	-0.75	-1.16	-0.97	+1.17	+4.73	+6.65	+8.85	+8.98	+7.43	+0.37	-3.07	-1.43	-4.19	-5.62	-5.95	-6.47	-2.23
Nov.	-2.32	-1.87	-2.54	-1.55	+1.76	+1.07	+2.42	+0.51	+0.40	-0.13	+0.76	+2.69	+4.90	+7.01	+9.06	+6.95	+4.32	-1.57	-2.12	-5.89	-6.12	-4.73	-5.34	-7.67
Dec.	-5.04	-2.04	-0.56	-0.22	-2.32	-0.47	-0.92	-0.18	-0.42	-0.16	+1.26	+2.96	+4.30	+5.48	+5.60	+6.22	+4.36	+2.11	+1.74	+0.70	-2.92	-8.02	-5.58	-5.88
Year	-3.24	-1.99	-2.59	-2.01	-2.16	-2.04	-1.28	-1.38	-1.31	-0.77	+0.97	+3.50	+5.35	+6.54	+6.83	+5.81	+3.83	+1.53	+0.14	-1.58	-3.24	-3.93	-3.37	-3.63
Winter	-3.02	-1.61	-2.41	-0.61	-0.56	-0.80	+0.79	+0.29	+0.14	+0.09	+1.35	+3.23	+4.33	+5.47	+6.11	+4.95	+3.35	-0.08	-0.97	-2.71	-4.45	-4.31	-3.68	-4.89
Equinox	-2.89	-1.24	-2.14	-2.37	-2.31	-1.32	+0.08	-0.25	-0.60	-0.38	+1.45	+4.08	+5.93	+7.39	+7.28	+5.65	+2.70	+0.40	-1.38	-3.03	-4.68	-5.30	-4.12	-2.94
Summer	-3.80	-3.11	-3.23	-3.04	-3.61	-4.00	-4.70	-4.19	-3.47	-2.01	+0.11	+3.21	+5.79	+6.76	+7.11	+6.85	+5.45	+4.28	+2.77	+0.99	-0.59	-2.18	-2.32	-3.06
INCLINATION																								
Jan.	-0.61	+1.41	-0.46	-0.47	-0.61	-0.46	-0.87	-0.50	-0.18	+0.17	+0.28	+0.33	+0.22	-0.26	+1.22	+1.71	+0.31	+0.21	+0.48	-0.16	-0.19	-0.16	-0.72	-0.69
Feb.	-0.78	-0.68	+0.20	-0.39	-0.70	-0.88	-0.72	-1.23	-1.07	-0.48	+0.58	+1.03	+0.65	+0.39	+0.58	+0.50	+0.78	+0.42	+0.80	+1.05	+0.30	-0.11	-0.42	+0.21
Mar.	-1.01	-0.78	-0.51	-1.01	-0.66	-1.07	-0.68	+0.02	-0.47	-0.04	+0.20	+0.49	+0.51	+0.11	-0.02	-0.25	+0.73	+1.27	+1.17	+1.20	+0.62	-0.06	-0.04	+0.26
Apr.	+0.23	-1.28	-0.39	-0.62	-0.46	-0.15	-0.01	+0.44	+0.77	+1.43	+2.10	+1.36	+0.30	+0.20	-0.03	-0.33	-1.29	-1.32	-1.53	-1.00	+0.28	+0.89	+0.87	-0.44
May	-0.99	-1.07	-0.68	-1.45	-0.35	+0.05	+0.39	+0.83	+2.08	+3.04	+2.00	+1.08	+1.40	+1.23	+0.63	-0.47	-1.01	-2.20	-2.33	-1.53	-0.91	-0.05	+0.73	-0.43
June	-0.60	-0.72	-1.23	-0.32	-0.95	-0.52	+0.07	+0.78	+1.70	+1.85	+2.04	+2.01	+1.29	+0.76	+0.88	+0.15	-0.41	-0.94	-1.38	-1.19	-1.55	-0.58	-0.66	-0.46
July	-0.71	-0.31	-0.36	-0.40	-0.21	-0.17	-0.02	+0.38	+0.85	+1.39	+1.33	+1.33	+0.71	+0.49	+0.39	-0.07	-0.50	-1.37	-1.24	-0.93	-0.41	-0.19	-0.02	+0.03
Aug.	-0.87	-1.03	-0.94	-1.13	-0.78	-0.82	+0.14	+0.65	+1.80	+1.46	+1.94	+2.17	+2.27	+0.99	+0.71	+0.21	-0.48	-1.16	-1.09	-0.97	-1.24	-0.24	-0.79	-0.74
Sept.	-0.81	-0.68	-1.51	-1.37	-1.67	-1.27	-1.48	-0.46	+0.39	+1.16	+2.07	+2.02	+1.53	+0.73	+0.31	+0.48	+1.04	+0.55	+0.82	-0.05	-0.02	-0.49	-0.26	-1.01
Oct.	-0.84	-1.33	-1.12	-1.44	-2.05	-1.90	-1.52	-1.47	+0.23	+0.93	+1.60	+1.42	+0.89	+1.93	+0.96	+0.87	+1.02	+1.02	+1.45	+0.14	-0.36	+0.45	-0.07	-0.83
Nov.	-1.17	-1.56	-1.58	-1.81	-2.07	-2.01	-2.21	-1.44	-0.53	+0.18	+1.34	+1.39	+0.65	-0.11	-1.45	+0.87	+1.47	+2.67	+2.15	+2.25	+1.79	+1.01	-0.02	+0.19
Dec.	-0.38	-0.74	-0.53	-0.96	-1.42	-1.58	-1.59	-1.26	-0.91	-0.47	+0.17	+0.49	+0.15	-0.11	+0.71	+0.57	+1.04	+0.27	+0.46	+1.20	+1.70	+0.66	+1.28	+1.25
Year	-0.71	-0.73	-0.76	-0.95	-0.99	-0.90	-0.71	-0.21	+0.39	+0.89	+1.30	+1.26	+0.88	+0.47	+0.41	+0.35	+0.22	-0.05	-0.02	0.00	+0.01	+0.09	-0.01	-0.22
Winter	-0.74	-0.39	-0.59	-0.90	-1.20	-1.23	-1.35	-1.11	-0.68	-0.15	+0.59	+0.80	+0.42	-0.02	+0.27	+0.91	+0.90	+0.89	+0.98	+1.09	+0.91	+0.35	+0.03	+0.24
Equinox	-0.61	-1.01	-0.89	-1.11	-1.21	-1.09	-0.92	-0.20	+0.23	+0.87	+1.49	+1.33	+0.81	+0.58	+0.30	+0.19	+0.37	+0.39	+0.48	+0.08	+0.13	+0.19	+0.12	-0.51
Summer	-0.79	-0.79	-0.80	-0.82	-0.57	-0.37	+0.14	+0.66	+1.61	+1.93	+1.83	+1.65	+1.41	+0.87	+0.65	-0.05	-0.60	-1.42	-1.51	-1.15	-1.03	-0.26	-0.19	-0.40
HORIZONTAL FORCE																								
Jan.	+3.9	+39.8	+6.2	+5.7	+4.0	+3.4	+4.9	+3.4	+2.4	+0.7	+0.0	+0.0	+1.9	+10.2	+9.6	+13.9	+4.2	+6.6	+1.1	+9.0	+7.0	+5.5	+10.4	+11.4
Feb.	+12.1	+8.2	+6.2	+2.3	+2.8	+7.0	+7.1	+15.2	+13.4	+4.7	+10.4	+17.4	+11.1	+5.0	+3.8	+1.7	+5.2	+0.6	+5.7	+9.2	+0.8	+3.5	+5.4	+2.8
Mar.	+9.9	+3.9	+2.9	+5.9	+3.3	+9.8	+4.3	+6.3	+5.7	+9.1	+13.1	+11.9	+11.9	+2.5	+5.7	+22.1	+3.7	+2.8	+1.7	+6.3	+2.7	+4.3	+1.1	+6.5
Apr.	+27.2	+1.2	+5.2	+2.8	+4.2	+1.3	+0.4	+4.6	+9.2	+19.4	+28.8	+18.2	+2.4	+1.0	+7.6	+12.0	+27.0	+30.1	+37.4	+29.4	+5.4	+17.2	+24.6	+3.0
May	+1.2	+5.4	+1.1	+13.6	+0.6	+6.4	+7.2	+11.0	+28.7	+43.0	+29.4	+17.2	+20.4	+14.4	+3.1	+14.8	+23.6	+40.4	+43.6	+32.8	+22.3	+7.2	+13.6	+6.4
June	+6.0	+6.1	+10.2	+3.3	+6.9	+3.0	+3.1	+12.3	+25.8	+28.7	+32.2	+32.5	+21.4	+11.5	+10.8	+1.7	+11.9	+21.8	+28.1	+24.9	+28.4	+13.3	+12.4	+6.9
July	+8.3	+0.2	+1.7	+3.7	+2.9	+2.8	+0.1	+6.7	+15.1	+24.0	+23.7	+24.1	+14.3	+9.4	+4.9	+4.5	+12.1	+25.6	+24.5	+19.5	+11.3	+5.2	+0.7	-0.3
Aug.	+6.5	+8.9	+9.3	+13.5	+8.7	+8.0	+7.1	+16.1	+32.7	+27.9	+34.3	+37.1	+36.3	+14.7	+4.7	+6.9	+18.7	+29.2	+26.9	+22.9	+24.7	+7.7	+11.3	+7.7
Sept.	+6.9	+1.6	+13.2	+13.1	+18.6	+11.4	+12.3	+0.4	+9.8	+19.7	+32.8	+30.8	+22.5	+8.0	0.0	+0.3	+3.4	+5.8	+0.7	+9.6	+7.0	+9.7	+4.0	+13.2
Oct.	+4.7	+12.1	+9.2	+11.9	+19.9	+20.7	+17.5	+9.3	+5.2	+14.9	+25.1	+22.1	+12.1	+13.9	+8.0	+2.7	+0.3	+0.5	+7.9	+6.7	+5.4	+8.5	+2.9	+6.1
Nov.	+11.7	+11.1	+10.8	+14.1	+17.7	+16.3	+19.7	+11.5	+0.4	+9.5	+25.3	+24.5	+10.3	+4.3	+41.8	+9.1	+9.7	+20.9	+11.5	+17.3	+17.2	+11.9	+2.9	+7.5
Dec.	+2.2	+5.8	+3.0	+8.4	+14.8	+16.8	+18.0	+14.6	+10.4	+4.0	+5.0	+9.4	+3.6	+1.6	+8.4	+4.2	+8.2	+3.4	+3.0	+7.0	+16.4	+4.4	+19.2	+20.2
Year	+3.7	+2.0	+3.0	+6.3	+7.9	+7.3	+5.6	+0.3	+8.3	+15.3	+21.3	+20.5	+13.7	+5.2	+0.2	+4.1	+6.3	+11.6	+11.5	+9.6	+6.3	+1.2	+1.7	+0.1
Winter	+7.5	+3.7	+0.3	+3.6	+7.8	+9.2	+12.4	+11.2	+6.7	0.0	+10.2	+12.8	+5.8	+2.8	+5.0	+2.7	+4.7	+2.6	+3.3	+6.1	+6.5	+1.8	+1.6	+4.8
Equinox	+1.4	+4.7	+3.6	+8.4	+11.5	+10.8	+8.6	+0.5	+6.1	+14.9	+23.9	+21.1	+12.2	+5.9	+1.3	+7.9	+6.9	+8.1	+7.1	+9.8	+3.8	+2.9	+6.1	+2.5
Summer	+4.9	+5.1	+5.0	+6.9	+4.5	+1.9	+4.4	+11.5	+25.6	+30.9	+29.9	+27.7	+23.1	+12.5	+5.9	+7.0	+16.6	+29.3	+30.8	+25.0	+21.7	+8.3	+2.7	+2.0

"Winter" comprises the four months January, February, November, December; "Equinox" the months March, April, September, October; and "Summer" May to August.

RANGE OF MEAN DIURNAL INEQUALITIES FOR THE MONTHS, YEAR AND SEASONS OF 1955

The ranges are derived from the diurnal inequalities printed in Tables 141 to 146

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	All days			Quiet days			Disturbed days			All days			Quiet days			Disturbed days		
	N	W	Z	N	W	Z	N	W	Z	D	I	H	D	I	H	D	I	H
	γ	γ	γ	γ	γ	γ	γ	γ	γ	'	'	γ	'	'	γ	'	'	γ
Jan.	14.0	24.7	17.6	11.9	13.0	6.0	51.6	53.6	82.7	5.15	0.90	15.6	2.76	0.79	10.1	11.40	2.58	51.2
Feb.	15.6	27.0	19.8	10.5	22.3	9.4	37.2	42.0	40.9	5.81	1.29	12.9	4.78	0.67	8.9	9.48	2.28	32.6
Mar.	21.7	41.1	28.3	16.8	27.8	14.0	34.8	67.9	78.9	8.89	0.95	16.2	5.92	0.79	15.0	14.28	2.34	35.2
Apr.	37.1	43.1	33.4	36.5	40.7	19.0	63.7	64.2	104.1	9.53	1.86	37.4	8.83	1.95	35.4	13.51	3.63	66.2
May	45.1	49.8	23.7	39.3	51.1	22.2	79.1	75.2	70.2	9.86	2.81	47.8	10.47	2.37	42.0	15.20	5.37	86.6
June	48.3	50.7	23.2	45.7	49.4	21.6	60.5	68.9	43.3	10.48	2.89	50.7	9.83	2.83	49.3	13.92	3.59	60.9
July	44.7	51.7	22.2	41.7	57.9	21.3	63.3	55.1	27.4	10.65	2.62	46.0	11.51	2.61	44.2	11.86	2.76	49.7
Aug.	42.1	46.2	24.8	36.4	48.4	22.4	51.2	58.4	49.9	9.85	2.27	40.9	10.22	2.03	35.2	12.84	3.45	66.3
Sept.	42.3	38.4	24.1	35.7	32.5	12.4	69.5	48.1	64.9	8.11	2.70	39.9	7.05	2.18	35.2	10.43	3.74	51.4
Oct.	35.3	35.3	21.3	25.9	35.5	12.2	47.1	72.5	71.6	7.94	2.27	33.0	7.22	1.57	25.6	15.45	3.65	45.8
Nov.	31.9	34.4	28.1	29.0	27.7	5.8	59.2	88.9	97.6	7.25	2.15	30.1	5.88	1.73	27.0	16.73	4.88	67.1
Dec.	19.9	30.6	16.9	18.0	16.1	6.6	32.9	67.8	48.2	6.57	1.26	17.7	3.57	1.11	17.2	14.24	3.29	38.2
Year	28.3	34.1	20.3	27.3	32.7	13.2	34.5	51.4	54.8	7.22	1.42	26.2	6.90	1.53	26.5	10.76	2.29	32.9
Winter	17.8	28.1	18.8	16.3	16.7	6.0	27.0	50.5	58.2	6.00	1.14	15.8	3.79	0.94	14.6	11.00	2.44	25.2
Equinox	31.0	36.7	23.2	28.4	33.0	13.8	38.2	61.0	67.3	8.24	1.81	28.2	7.14	1.59	27.3	12.69	2.70	35.4
Summer	44.5	48.2	23.3	39.8	49.9	21.3	57.8	56.5	41.3	10.08	2.59	45.7	10.35	2.40	42.0	11.81	3.44	61.7

NON-CYCLIC CHANGE

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	All days			Quiet days			Disturbed days		
	H	D	Z	H	D	Z	H	D	Z
	γ	'	γ	γ	'	γ	γ	'	γ
Jan.	+0.3	-0.03	-0.1	+3.9	+0.37	-2.3	-1.3	+0.87	-3.2
Feb.	-0.4	0.00	+0.6	+7.3	-0.66	+0.6	-10.5	-0.10	-1.3
Mar.	-0.2	+0.01	-0.5	+3.1	+0.26	-1.0	-13.4	+0.31	+6.1
Apr.	+0.7	-0.05	0.0	+3.8	+0.18	-0.9	+1.4	+3.29	+10.8
May	+0.5	-0.03	+0.3	+3.0	-0.18	-1.4	-8.2	-0.03	-3.3
June	+0.1	+0.06	+0.1	-1.3	+0.13	-0.7	-7.1	+0.55	+3.0
July	-0.3	-0.04	0.0	+2.4	-0.72	-1.0	+7.9	+0.29	-1.3
Aug.	0.0	-0.12	-0.6	+4.3	+0.01	+5.2	-3.4	+0.38	-0.3
Sept.	-0.3	-0.05	-0.5	+4.8	-0.38	-2.0	-3.3	+0.47	+2.5
Oct.	-0.7	+0.03	+1.0	-1.6	-0.89	-0.3	-7.8	+0.18	-2.8
Nov.	+0.9	+0.07	+0.4	+3.7	+0.21	-2.1	-11.6	-3.07	-4.2
Dec.	+0.2	-0.22	0.0	+4.3	-0.37	-1.4	-19.0	-0.34	+2.0
Year	+0.1	-0.03	+0.1	+3.1	-0.17	-0.6	-6.4	+0.23	+0.7
Winter	+0.3	-0.05	+0.2	+4.8	-0.11	-1.3	-10.6	-0.66	-1.7
Equinox	-0.1	-0.02	0.0	+2.5	-0.21	-4.1	-5.8	+1.06	+4.1
Summer	+0.1	-0.03	-0.1	+2.1	+0.19	+0.5	-2.7	+0.30	-0.5

"Winter" comprises the four months January, February, November, December; "Equinox" the months March, April, September, October; and "Summer" May to August.

MEAN MONTHLY AND ANNUAL VALUES OF TERRESTRIAL MAGNETIC ELEMENTS

For all, a, quiet, q, and disturbed, d, days for H, D and Z and for all days for N, W, I and F

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	Horizontal force			Declination (west)			Vertical force			North component all days	West component all days	Inclination (north) all days	Total force all days
	a	q	d	a	q	d	a	q	d				
	16,000 γ +			10° +			44,000 γ +						
	γ	γ	γ	'	'	'	γ	γ	γ	γ	γ	°	γ
Jan.	659	663	640	59.4	59.5	59.0	1240	1241	1238	16354	3176	69 47.0	48210
Feb.	661	665	657	58.7	58.9	58.6	1242	1242	1241	16356	3173	69 47.0	48213
Mar.	661	666	659	58.2	58.5	58.1	1246	1244	1250	16356	3171	69 47.1	48217
Apr.	664	673	651	57.4	58.1	56.3	1244	1243	1239	16360	3167	69 46.8	48215
May	668	677	657	56.9	57.3	56.0	1246	1246	1238	16364	3166	69 46.6	48219
June	674	673	670	56.7	56.3	56.4	1249	1249	1245	16370	3166	69 46.3	48223
July	676	674	675	56.0	55.9	55.9	1249	1249	1249	16373	3163	69 46.1	48224
Aug.	675	679	668	55.6	55.8	55.9	1251	1250	1255	16373	3161	69 46.3	48226
Sept.	670	674	665	55.1	55.0	54.4	1249	1248	1251	16368	3156	69 46.6	48222
Oct.	669	677	655	54.6	54.7	53.8	1255	1252	1257	16368	3155	69 46.7	48228
Nov.	666	669	647	53.8	53.5	53.5	1267	1266	1279	16365	3150	69 47.3	48237
Dec.	676	683	665	53.5	53.5	53.0	1265	1262	1269	16375	3151	69 46.6	48239
Year	668	673	659	56.3	56.4	55.9	1250	1249	1251	16365	3163	69 46.7	48223

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	North component								West component								Vertical component							
	a_1	b_1	a_2	b_2	a_3	b_3	a_4	b_4	a_1	b_1	a_2	b_2	a_3	b_3	a_4	b_4	a_1	b_1	a_2	b_2	a_3	b_3	a_4	b_4
	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ
ALL DAYS																								
Jan.	-0.6	+1.0	-2.0	-2.8	+0.8	-1.5	0.0	-0.4	-9.8	-2.2	-0.7	+3.0	0.0	-1.1	+1.5	+0.8	-1.1	-6.7	-0.9	-2.3	+0.3	-0.5	-0.3	-0.7
Feb.	+1.6	+3.7	-1.1	-2.6	+2.5	-1.9	+0.2	+0.6	-10.8	-4.1	+2.8	+3.1	+0.2	-0.8	+0.1	+0.8	+2.6	-8.4	-2.2	-1.3	+0.7	+0.7	-0.7	-0.2
Mar.	+6.5	-0.1	-4.4	-0.6	+1.8	-1.1	-0.7	-0.5	-13.2	-6.4	+3.7	+6.2	+0.8	-2.8	+0.8	+2.7	+2.6	-10.9	-6.3	-0.9	+1.7	+0.3	-0.5	-0.5
Apr.	+10.4	-3.8	-8.7	-0.1	+2.5	-0.5	+0.5	+1.6	-13.0	-12.2	+1.5	+9.4	-1.1	-1.5	+2.5	+2.7	-0.7	-9.2	-9.1	-1.8	-1.1	+0.7	-1.4	+0.7
May	+14.0	-9.2	-8.3	+1.6	+1.1	-0.5	+1.1	+1.4	-7.3	-18.1	+2.5	+9.0	-3.7	-1.8	+0.9	+0.3	+0.9	-6.3	-7.6	-2.3	+1.1	-0.5	-2.1	+0.4
June	+16.7	-7.9	-9.5	+1.5	-0.1	-1.2	+1.2	+0.8	-5.2	-19.8	+4.3	+7.7	-2.8	-1.2	+0.3	+0.1	+3.5	-6.3	-5.5	-2.2	+1.0	-0.4	-0.4	+0.4
July	+15.5	-6.2	-10.4	+0.1	+1.1	-0.4	-0.2	+0.4	-4.9	-19.3	+4.2	+9.5	-1.8	-1.6	+0.4	+1.4	+4.4	-5.0	-5.5	-1.6	+1.2	+0.1	-0.1	-0.6
Aug.	+15.7	-6.3	-7.7	+1.3	+0.3	-1.4	+0.4	+0.3	-9.0	-14.3	+5.7	+6.8	-4.0	-2.4	+0.8	+2.1	+3.2	-6.4	-6.7	+0.4	+1.9	-0.2	-1.1	-0.6
Sept.	+16.9	-1.1	-7.8	+1.9	+1.4	-3.9	+0.6	+2.0	-10.0	-7.3	+4.3	+7.1	-2.3	-4.1	+1.0	+2.0	-0.7	-10.2	-4.2	-1.8	+1.6	+0.3	-0.5	-0.8
Oct.	+13.1	+1.6	-7.5	-0.9	+2.1	-2.8	+0.1	+0.9	-8.7	-4.9	+2.5	+8.9	-2.3	-4.6	+0.8	+2.4	-1.5	-7.3	-4.3	-0.1	+2.3	+1.8	-0.8	-0.2
Nov.	+8.7	+4.5	-5.6	+0.4	+3.1	-2.9	-0.9	+1.6	-9.4	-3.1	+0.3	+8.8	-0.5	-3.4	+0.3	+1.3	-2.5	-12.2	-3.7	-0.6	+1.0	+0.5	-1.5	+0.3
Dec.	+4.1	+5.0	-4.5	-1.8	+1.1	-0.7	+0.1	+0.3	-9.5	-4.2	-2.5	+6.1	-0.8	-0.5	+0.2	+1.7	+1.2	-7.9	-2.0	-1.1	+0.7	+0.3	-1.0	-0.2
Year	+10.2	-1.6	-6.5	-0.2	+1.5	-1.5	+0.2	+0.8	-9.2	-9.6	+2.4	+7.1	-1.5	-2.1	+0.8	+1.5	+1.0	-8.1	-4.8	-1.3	+1.0	+0.2	-0.9	-0.2
Winter	+3.4	+3.6	-3.3	-1.7	+1.9	-1.7	-0.2	+0.5	-9.9	-3.4	0.0	+5.2	-0.3	-1.5	+0.5	+1.1	0.0	-8.8	-2.2	-1.3	+0.7	+0.3	-0.8	-0.2
Equinox	+11.7	-0.8	-7.1	+0.1	+1.9	-2.1	+0.1	+1.0	-11.2	-7.7	+3.0	+7.9	-1.3	-3.3	+1.3	+2.5	-0.1	-9.4	-6.0	-1.1	+1.1	+0.7	-0.8	-0.2
Summer	+15.5	-7.4	-9.0	+1.1	+0.6	-0.9	+0.7	+0.7	-6.6	-17.9	+4.2	+8.2	-3.1	-1.7	+0.6	+1.0	+3.0	-6.0	-6.3	-1.5	+1.3	-0.3	-0.9	-0.1
QUIET DAYS																								
Year	+9.4	-1.4	-6.1	+0.1	+1.7	-1.0	0.0	+0.7	-4.2	-10.0	+2.8	+5.7	-2.5	-2.5	+0.9	+1.3	+3.7	-1.6	-3.3	-0.5	+1.5	+0.2	-0.8	-0.2
Winter	+3.8	+2.2	-4.0	-1.5	+2.1	-0.7	-0.7	+0.7	-4.3	-3.1	0.0	+3.7	-1.3	-1.4	+0.8	+1.3	+1.5	-1.9	-1.0	-0.3	+0.5	+0.2	-0.5	-0.5
Equinox	+9.9	-0.4	-6.3	-0.9	+2.3	-0.7	+0.2	+1.1	-4.2	-9.1	+2.5	+5.5	-2.5	-3.7	+1.6	+1.7	+4.1	-2.2	-2.9	-1.4	+1.9	-0.2	-1.1	-0.7
Summer	+14.5	-6.2	-7.7	+2.5	+0.7	-1.6	+0.5	+0.4	-4.0	-17.1	+6.0	+8.3	-3.5	-2.3	+0.4	+1.2	+5.6	-1.8	-5.9	-0.3	+2.0	+0.2	-0.7	+0.1
DISTURBED DAYS																								
Year	+11.1	-3.9	-9.1	+1.0	+0.9	-1.7	+0.5	+1.0	+19.8	+7.5	-4.1	-9.5	-0.2	+2.0	-0.5	-1.1	-7.4	-21.9	-8.8	-2.3	+0.8	+0.7	-1.1	-0.1
Winter	+4.5	+2.4	-3.8	-2.0	+2.7	-4.3	-0.3	+1.3	+18.4	+0.9	-1.3	-10.4	-0.5	+1.3	+0.3	-1.0	-7.4	-26.6	-4.5	-2.9	+2.1	+0.5	-1.3	+0.5
Equinox	+10.8	-3.0	-10.2	+2.4	+0.7	-2.3	-0.2	+0.8	+21.6	+4.8	-6.2	-9.6	-1.8	+3.3	-1.6	-2.2	-10.9	-22.9	-12.7	-0.7	+0.1	+2.7	+0.1	-0.3
Summer	+18.1	-11.0	-13.3	+2.7	-0.9	+1.3	+1.9	+1.0	+19.3	+16.9	-4.7	-8.6	+1.7	+1.4	0.0	0.0	-3.8	-16.5	-9.2	-3.3	+0.1	-1.3	-2.2	-0.5

HARMONIC COMPONENTS OF THE DIURNAL INEQUALITY OF MAGNETIC FORCE
 Values of c_n , α_n in the series $\Sigma c_n \sin(15nt + \alpha_n)$, t being mean local time, reckoned in hours from midnight

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	North component								West component								Vertical component							
	c ₁	α ₁	c ₂	α ₂	c ₃	α ₃	c ₄	α ₄	c ₁	α ₁	c ₂	α ₂	c ₃	α ₃	c ₄	α ₄	c ₁	α ₁	c ₂	α ₂	c ₃	α ₃	c ₄	α ₄
	γ	°	γ	°	γ	°	γ	°	γ	°	γ	°	γ	°	γ	°	γ	°	γ	°	γ	°	γ	°
	ALL DAYS																							
Jan.	1.2	333	3.5	222	1.7	162	0.4	189	10.0	261	3.0	354	1.1	190	1.7	76	6.8	193	2.5	207	0.6	163	0.7	214
Feb.	4.0	27	2.8	210	3.1	137	0.7	31	11.5	253	4.1	48	0.9	177	0.8	21	8.8	166	2.6	246	1.0	55	0.7	268
Mar.	6.5	94	4.4	268	2.1	132	0.8	245	14.7	247	7.2	37	2.9	173	2.8	30	11.2	170	6.4	269	1.7	90	0.7	237
Apr.	11.1	113	8.7	276	2.6	112	1.7	29	17.8	230	9.5	15	1.9	227	3.7	56	9.2	188	9.3	265	1.3	312	1.6	310
May	16.7	127	8.4	287	1.2	123	1.8	51	19.5	205	9.3	22	4.1	253	0.9	80	6.4	175	7.9	259	1.2	127	2.1	294
June	18.5	119	9.6	285	1.2	197	1.5	69	20.5	198	8.8	35	3.1	257	0.3	73	7.2	154	6.0	255	1.1	121	0.6	330
July	16.7	115	10.4	277	1.2	120	0.5	351	19.9	197	10.3	30	2.4	237	1.4	29	6.7	142	5.7	260	1.6	96	0.6	206
Aug.	16.9	115	7.9	286	1.4	177	0.4	67	16.9	215	8.9	47	4.7	249	2.2	34	7.2	157	6.7	280	1.9	106	1.3	253
Sept.	16.9	97	8.0	290	4.1	170	2.1	30	12.4	237	8.3	38	4.7	219	2.2	39	10.2	187	4.5	253	1.6	90	0.9	226
Oct.	13.3	86	7.6	269	3.5	154	0.9	22	10.0	244	9.3	22	5.1	217	2.6	31	7.5	195	4.3	275	2.9	62	0.8	267
Nov.	9.8	66	5.6	280	4.2	143	1.8	343	9.9	255	8.8	8	3.4	198	1.3	27	12.5	195	3.7	268	1.1	75	1.5	294
Dec.	6.4	43	4.9	255	1.3	131	0.3	26	10.4	249	6.6	345	1.0	246	1.7	18	8.0	175	2.3	248	0.7	76	1.0	273
Year	10.3	102	6.5	275	2.1	146	0.8	28	13.3	227	7.5	25	2.6	225	1.7	41	8.2	176	5.0	261	1.1	86	0.9	271
Winter	4.9	47	3.7	250	2.5	143	0.6	354	10.4	254	5.2	6	1.5	200	1.3	37	8.8	183	2.5	246	0.7	79	0.9	268
Equinox	11.8	97	7.1	277	2.8	147	1.0	21	13.6	239	8.5	27	3.5	211	2.8	41	9.4	184	6.1	265	1.3	66	0.8	269
Summer	17.1	119	9.1	283	1.1	156	1.0	55	19.1	203	9.2	33	3.5	250	1.2	42	6.7	157	6.5	263	1.3	111	0.9	277
	QUIET DAYS																							
Year	9.5	102	6.1	277	1.9	131	0.7	11	10.8	206	6.4	33	3.5	234	1.6	47	4.1	117	3.3	267	1.5	93	0.8	266
Winter	4.4	63	4.3	256	2.2	117	0.9	328	5.3	237	3.7	6	1.9	233	1.5	43	2.4	146	1.1	262	0.5	83	0.7	234
Equinox	9.9	96	6.4	268	2.4	118	1.1	21	10.0	208	6.1	31	4.5	223	2.3	57	4.7	121	3.2	250	1.9	106	1.3	252
Summer	15.8	116	8.1	295	1.7	167	0.7	62	17.6	196	10.3	42	4.2	247	1.3	31	5.9	111	5.9	273	2.0	94	0.7	294
	DISTURBED DAYS																							
Year	11.7	112	9.2	283	1.9	163	1.1	38	21.2	72	10.3	210	2.0	4	1.1	216	23.2	202	9.1	262	1.0	60	1.1	280
Winter	5.1	65	4.3	248	5.1	157	1.3	360	18.5	91	10.5	193	1.5	348	1.1	178	27.6	199	5.4	243	2.1	85	1.4	305
Equinox	11.2	109	10.5	290	2.4	172	0.8	357	22.1	81	11.4	219	3.8	341	2.7	229	25.4	209	12.7	273	2.7	11	0.3	175
Summer	21.2	124	13.6	288	1.6	335	2.2	75	25.6	52	9.8	215	2.3	61	0.0	47	16.9	196	9.8	257	1.3	183	2.2	270

KEW

KEW OBSERVATORY

Latitude	51°28'N.
Longitude	0°19'W.
G.M.T. of Local Mean Noon	12h. 1m.

		<i>Height of instruments</i>	
		<i>above M.S.L.</i>	<i>above ground</i>
		<i>m.</i>	<i>m.</i>
Barometer		10.4	..
Thermometer bulbs .. .. .		..	3.0
Rain-gauge site		5.5	..
Tilting siphon rain recorder rim			0.53
Sunshine recorder .. .. .		..	13.3
Pressure-tube anemograph		28	23

INTRODUCTION

Full details of the site, instruments, procedure and tabulation are given in the *Observatories' Year Book* for 1938. Changes and additions only are mentioned here.

Meteorology

Notes on the instruments

Pressure: The photographic barograph is mounted in the galvanometer room of the underground seismograph house. It was transferred there on 15 May 1939 from the position in the north room of the basement of the main Observatory building which it had occupied since the inception of the record in 1862.

Temperature: As from January 1943, Kew adopted the practice followed by the other Observatories for the tabulation of hourly readings of temperature from the curves of the photo-thermograph, that is, by adjusting the glass scale, so that the readings at the control hours on the trace are made to show general agreement with the corresponding eye readings of the standard control thermometers, and then reading off the temperature equivalent from the curves at the requisite times. This supersedes method (a) set out on page 3 of the General Introduction to the *Observatories' Year Book* 1938.

Rainfall: On and after 1 October 1944, the hourly readings are from a Meteorological Office tilting-siphon recorder, M.O.80., instead of from the old Beckley self-registering rain-gauge No. 1 which had been continuously in operation at Kew Observatory since 1871. The new instrument, whose funnel also has a collecting area of approximately 100 square inches, is set up 8.5 metres south-south-west of the standard check gauge with the rim at exactly the same height above ground level as was the old Beckley gauge, that is, 0.53 metres. From 1 January 1945 onwards the hourly readings are adjusted to give totals in agreement with the check gauge read daily at 9h. and 21h. Prior to 1 August 1944 the check gauge was read at 7h. and 18h.; from 1 August to 31 December 1944 at 6h. and 18h. A special instrument, known as the rainfall chronograph, which in effect is a sensitive drop-counting gauge, is used to help in determining the duration of rainfall of 0.1 mm. per hour or more. This gauge stands on the lawn about 6.5 metres west-north-west of the tilting-siphon recorder. The Jardi rate-of-rainfall recorder has proved to be unreliable at rates below 6 mm. per hour and such values are omitted from Table 162.

Sunshine: Details of the change of sunshine recorders are given in the Introduction for 1950.

Solar radiation: The factors by which the printed values 1939 to 1945 should be multiplied are given in the Introduction for the years in question.* Details of the change of pyrheliographs are given in the Introduction for 1951.

Identification numbers of instruments in use in 1955

Thermometer No. 788 graduated in degrees Fahrenheit, which had been in use as a control thermometer for the photographic thermograph up to 1915 and again from 1934 onwards, was broken when its brass mounting disintegrated on 10 December. It was replaced by thermometer No. 173971, graduated in degrees Absolute, which was previously in use as a control thermometer from 1916 to 1933. Thermometer No. 738 continued in use as the control for the wet bulb. Rain Measure No. 1999 continued in use as the measuring glass for the control rain-gauge. There were no changes in the instruments used to measure earth temperatures and minimum on the grass.

Thermometer corrections 1955.

	No. 788 N.P.L. 1933	No. 738 N.P.L. 1933	M.O. 20430 N.P.L. 1948	M.O. 20428 N.P.L. 1949	M.O. 18003 N.P.L. 1929	M.O. 173971 N.P.L. 1915
	°F	°F	°F	°F	°F	°A
Certified	2 +0.1	2 +0.2	22 -0.1	22 0.0	2 -0.2	260 +0.1
	12 +0.1	12 +0.1	32 -0.1	32 0.0	22 -0.1	273 0.0
	32 0.0	32 0.0	42 -0.1	42 0.0	32 0.0	280 0.0
	52 -0.1	52 -0.1	52 -0.1	52 0.0	52 0.0	290 -0.1
	72 0.0	72 -0.1	62 -0.1	62 -0.1	72 0.0	300 -0.1
	92 0.0	92 -0.1	72 -0.1	72 -0.1	.. ..	310 0.0
Applied	0.0	0.0	-0.1	0.0	0.0	0.0

Notes on the meteorological summaries

The mean temperature for the year, 283.2°A. (50.4°F.), was again above the average of 282.8°A. (49.6°F.) for the period 1871-1915. February and March were very cold months with mean temperatures 3.4°F. and 3.2°F. below their respective normals. August and December were exceptionally warm with mean temperatures 4.2°F. and 4.3°F. above average whilst April, July and November were also warm, each with a mean temperature nearly 3°F. in excess of normal. There were 12 days, 7 in July and 5 in August, on which the maximum temperature in the north-wall screen exceeded 300°A. (80.6°F.). The highest reading was 303.1°A. (86.2°F.) at 15h.30m. on 17 July and at 15h.00m. on 22 August. No "ice days" occurred in 1955. The lowest temperature in the north-wall screen was 267.6°A. (22.3°F.) registered at 07h.30m. on 28 February, whilst the lowest reading of the grass minimum thermometer was 256.3°A. (1.9°F.) on 20 February, the lowest for at least 15 years.

1955, with a total rainfall of only 460 mm., 24 per cent below the average for the standard period 1881-1915, was the driest year since 1921. May, with more than twice its normal rainfall was the wettest month of that name since 1932, but apart from January, June, September and October, each of which had normal amounts of rainfall, all the other months were exceptionally dry.

*STAGG, J.M.: Solar radiation at Kew Observatory, *Geophys. Mem.*, London, 11, No.86, 1950.

April with only 8 mm., 22 per cent of average, was the driest since 1912, whilst July with 10 mm., 18 per cent of average, was the driest since 1921. The heaviest fall in one day was 27 mm. on 19 October.

The sunshine for the year, 1660 hours, was 191 hours more than the normal total for the period 1906-1935. June, with a deficit of 31 hours, was the only dull month. March, April, May and July were exceptionally sunny. Indeed March, with 45 per cent more sunshine than average was the sunniest month of that name since 1938. September and October were also sunny months.

The highest wind speed recorded in a gust was 29 m./sec. (64 m.p.h.) at 12h.05m. on 23 March. The highest on record is 33m./sec. (73 m.p.h.) on 16 March 1947.

Diurnal variation of pressure and temperature; harmonic analysis:- Notes on the tables will be found in the *Observatories' Year Book, 1938*

TABLE 152 - DIURNAL VARIATION OF BAROMETRIC PRESSURE FOURIER COEFFICIENTS

Values of c_n , α_n in the series $\sum c_n \sin(15nt + \alpha_n)$, t being local mean time reckoned in hours from midnight

	c_1		α_1		c_2		α_2		c_3		α_3		c_4		α_4	
	1955	1871-1926	1955	1871-1926	1955	1871-1926	1955	1871-1926	1955	1871-1926	1955	1871-1926	1955	1871-1926	1955	1871-1926
	mb.	mb.	°	°	mb.	mb.	°	°	mb.	mb.	°	°	mb.	mb.	°	°
January	0.42	0.02	65	315	0.35	0.31	155	151	0.18	0.17	349	346	0.05	0.07	230	202
February	0.20	0.05	273	73	0.30	0.36	132	146	0.08	0.12	21	340	0.05	0.03	127	108
March	0.34	0.11	73	38	0.41	0.40	142	149	0.05	0.07	3	332	0.05	0.04	11	25
April	0.41	0.28	355	31	0.41	0.40	149	151	0.03	0.03	151	185	0.05	0.04	328	353
May	0.36	0.32	33	27	0.31	0.35	146	148	0.09	0.09	157	161	0.02	0.02	302	319
June	0.28	0.30	50	17	0.30	0.32	140	143	0.08	0.09	143	160	0.03	0.01	11	260
July	0.60	0.26	3	16	0.36	0.31	137	140	0.11	0.10	156	153	0.03	0.01	295	281
August	0.49	0.21	14	20	0.39	0.34	140	144	0.06	0.06	171	155	0.05	0.04	330	309
September	0.28	0.12	31	6	0.42	0.40	152	152	0.01	0.01	87	350	0.04	0.04	336	332
October	0.19	0.06	1	76	0.38	0.38	160	160	0.07	0.09	339	359	0.03	0.01	2	22
November	0.25	0.03	84	124	0.31	0.34	165	160	0.14	0.13	359	358	0.02	0.03	182	183
December	0.23	0.08	68	137	0.31	0.31	162	152	0.17	0.15	350	353	0.07	0.07	192	205
Arithmetic mean	0.34	0.15			0.35	0.35			0.09	0.09			0.04	0.03		
Year	0.27	0.14	30	29	0.35	0.35	148	150	0.03	0.03	18	359	0.01	0.01	312	280
Winter	0.18	0.03	61	111	0.31	0.33	154	152	0.14	0.14	356	350	0.04	0.05	184	208
Equinox	0.26	0.14	25	32	0.40	0.39	151	153	0.02	0.04	2	345	0.04	0.03	348	359
Summer	0.41	0.27	20	20	0.34	0.33	141	144	0.08	0.08	153	157	0.03	0.02	326	305

"Winter" comprises the four months January, February, November, December; "Equinox" the months March, April, September, October; and "Summer" May to August

TABLE 153 - DIURNAL VARIATION OF TEMPERATURE FOURIER COEFFICIENTS

Values of c_n , α_n in the series $\sum c_n \sin(15nt + \alpha_n)$, t being local mean time reckoned in hours from midnight

	c_1		α_1		c_2		α_2		c_3		α_3		c_4		α_4	
	1955	1871-1926	1955	1871-1926	1955	1871-1926	1955	1871-1926	1955	1871-1926	1955	1871-1926	1955	1871-1926	1955	1871-1926
	$^{\circ}\text{A.}$	$^{\circ}\text{A.}$	$^{\circ}$	$^{\circ}$	$^{\circ}\text{A.}$	$^{\circ}\text{A.}$	$^{\circ}$	$^{\circ}$	$^{\circ}\text{A.}$	$^{\circ}\text{A.}$	$^{\circ}$	$^{\circ}$	$^{\circ}\text{A.}$	$^{\circ}\text{A.}$	$^{\circ}$	$^{\circ}$
January	0.65	0.99	210	221	0.29	0.43	55	35	0.09	0.17	217	208	0.01	0.01	83	3
February	1.28	1.53	217	221	0.57	0.57	34	34	0.07	0.12	222	211	0.05	0.06	189	169
March	2.40	2.45	218	222	0.50	0.63	26	40	0.10	0.07	0	334	0.12	0.11	205	197
April	3.48	3.21	219	226	0.48	0.48	26	51	0.22	0.22	25	24	0.09	0.07	207	218
May	2.84	3.72	231	227	0.15	0.15	46	74	0.32	0.31	15	35	0.03	0.04	91	20
June	3.07	3.72	224	226	0.11	0.02	40	84	0.23	0.26	29	35	0.09	0.10	70	33
July	4.36	3.68	218	225	0.22	0.06	329	50	0.21	0.29	18	31	0.09	0.07	24	28
August	3.84	3.54	220	226	0.35	0.34	17	52	0.24	0.30	35	28	0.04	0.03	213	218
September	3.16	3.22	227	228	0.60	0.71	50	49	0.23	0.14	17	24	0.15	0.16	214	213
October	2.52	2.32	225	229	0.77	0.76	42	50	0.01	0.10	183	248	0.07	0.12	206	200
November	1.44	1.39	222	226	0.45	0.57	55	44	0.19	0.18	239	232	0.03	0.02	333	141
December	1.00	0.90	212	226	0.46	0.40	40	41	0.17	0.16	212	215	0.04	0.04	25	38
Arithmetic mean	2.50	2.56			0.41	0.43			0.17	0.19			0.07	0.07		
Year	2.50	2.56	221	226	0.39	0.42	36	45	0.09	0.08	11	17	0.02	0.02	195	195
Winter	1.09	1.20	216	223	0.43	0.49	44	39	0.13	0.15	224	217	0.00	0.01	15	121
Equinox	2.89	2.80	222	226	0.58	0.64	37	47	0.13	0.09	17	4	0.11	0.11	209	207
Summer	3.52	3.67	222	226	0.18	0.14	13	59	0.25	0.29	24	32	0.04	0.04	57	27

"Winter" comprises the four months January, February, November, December; "Equinox" the months March, April, September, October; and "Summer" May to August.

Atmospheric electricity

The difficulties mentioned in the Introductions to the 1949 and 1953 *Observatories' Year Books* continued to be experienced and, as in 1954, the only satisfactory observations were those of potential gradient, made in the underground laboratory by the Wilson method, which appear in Table 174. In view of the instrumental difficulties and the absence of check observations*, there must be some doubt about the accuracy of these measurements, but it is thought unlikely that they are in error by more than 10 per cent. No observations are available after June. No data are published in Tables 175-177 for 1955 since the records obtained from the electrograph were unreliable.

Atmospheric pollution

From 1 January 1950 the method of tabulation was revised to eliminate the need for interpolation between shade numbers.

The Owens pollution recorder was transferred, on 27 July 1953, from the site in the Clinical House, which it had occupied since the inception of the record in 1921, to a new site in the large Calibration Hut. The new location is some 25 m. south-west of its former position and the air sampled is drawn into the instrument from a point outside, whose height is about 2 m. above that of the adjacent ground. The recorder was out of action from 19 February to the end of March. It was badly damaged by being frozen up which necessitated a complete overhaul. Similar trouble was experienced in December when the instrument was again out of action from 19 December to the end of the year.

During 1955, for 302 days on which the record of the Owens pollution recorder was available, the highest estimate of pollution was 1.7 mg.m^{-3} , this value occurring at 24h. on 19 January, and at 01h. and 02h. on 20 January. There were 13 days on which the pollution reached 0.95 mg.m^{-3} . The number of hours credited with at least 0.95 mg.m^{-3} was 45.

*SCRASE F.J.: Observations of atmospheric electricity at Kew Observatory. *Geophys. Mem. London* 7, No. 60, 1934.

Seismology

The Seismological diary and table of microseisms, which were printed in the *Observatories' Year Book* from 1922 to 1939 are now omitted. The distribution of the *Kew Monthly Bulletin* which ceased in May 1940 was resumed in January 1947. Seismological data for 1955 are also published in the *International Seismological Summary*.

Changes in instruments or procedures from those printed in the Introduction for 1938 are given in the Introductions for the years 1938, 1947, 1949 and 1950. The three Galitzin seismographs were not re-standardised during 1955. The total number of shocks measured during the year was 353. The phases of 122 of these were sufficiently well defined to allow an estimate of the epicentral distance to be computed.

No British earthquake was recorded during 1955.

PRESSURE AT STATION LEVEL

Maximum, minimum and daily mean values in millibars for each day 0h. to 24h., G.M.T.
The initial 9 or 10 of the values is omitted, i.e. 1005·61 is printed 05·61

154 KEW OBSERVATORY: h_b (height of barometer cistern above M.S.L.) = 10·4 m.

	JANUARY			FEBRUARY			MARCH			APRIL			MAY			JUNE		
	Max.	Min.	Mean	Max.	Min.	Mean	Max.	Min.	Mean	Max.	Min.	Mean	Max.	Min.	Mean	Max.	Min.	Mean
	<i>millibars</i>																	
1	30·5	27·4	29·5	93·7	87·8	91·0	27·0	23·4	25·1	24·9	21·6	23·6	13·8	98·9	05·6	20·4	14·4	16·9
2	30·2	25·1	28·3	96·0	86·8	93·5	29·9	26·4	28·6	24·7	15·6	19·3	07·7	97·4	01·3	15·6	13·5	14·3
3	25·1	15·4	20·4	87·4	81·0	84·5	29·1	26·5	27·9	17·5	14·7	16·1	07·8	97·2	03·7	15·4	06·9	12·2
4	16·7	12·6	14·6	93·7	80·9	87·4	31·4	28·1	29·9	16·5	15·2	15·9	01·6	96·0	98·2	11·8	02·3	06·1
5	17·2	12·3	15·2	00·5	80·5	90·6	28·7	11·2	19·2	16·4	15·0	15·6	10·7	01·4	05·7	13·3	11·8	12·5
6	12·3	08·3	09·9	19·0	00·5	11·5	12·8	08·6	10·7	19·1	13·5	15·5	10·8	97·5	05·6	12·9	02·4	08·2
7	12·0	10·4	11·1	18·6	01·3	06·8	12·2	05·5	08·2	21·8	19·1	20·3	24·2	10·8	19·7	02·4	99·7	00·8
8	12·5	10·8	11·8	08·2	03·6	06·5	06·8	00·9	03·4	21·3	19·6	20·5	24·0	13·9	19·6	02·3	99·5	00·4
9	12·0	05·4	08·9	09·4	04·4	07·7	22·4	06·8	15·2	23·6	20·6	22·5	13·9	07·8	09·8	13·3	02·2	06·8
10	05·4	86·2	94·6	17·1	08·0	12·8	27·5	22·4	25·9	23·6	18·7	20·5	15·8	06·2	09·1	21·4	13·3	17·9
11	02·5	85·8	94·5	17·2	07·7	14·3	27·3	24·1	25·7	28·4	20·9	24·1	22·0	15·8	19·7	21·4	13·4	18·8
12	03·5	94·9	98·2	09·6	05·5	06·8	25·4	23·3	24·7	30·9	28·3	29·9	22·0	07·7	16·8	13·4	97·7	02·6
13	07·5	86·3	00·0	19·8	09·6	15·9	26·7	24·2	25·4	32·1	30·1	31·0	07·7	99·7	01·7	20·1	06·2	15·2
14	12·2	86·2	98·7	19·2	05·6	10·7	28·4	26·4	27·5	30·8	29·2	30·2	03·6	01·5	02·4	20·3	18·7	19·4
15	12·2	90·9	01·5	11·4	07·3	10·2	28·2	25·1	26·9	30·0	27·9	29·2	07·9	03·5	06·7	21·7	18·6	20·0
16	01·3	74·7	85·8	10·7	95·7	02·2	25·1	15·2	20·2	32·9	29·4	30·8	07·5	98·7	05·8	21·8	19·4	20·7
17	03·8	94·3	99·7	95·7	85·5	89·5	20·8	14·7	18·5	36·1	32·9	34·4	98·7	87·3	91·7	22·3	20·1	21·1
18	10·2	96·3	03·9	90·2	85·5	88·1	20·7	12·5	17·9	36·2	31·2	33·8	15·6	97·7	08·5	22·0	14·9	18·7
19	10·4	08·8	09·6	98·5	88·8	92·6	12·5	08·2	10·7	31·4	24·8	28·5	23·2	15·6	19·6	14·9	05·9	08·8
20	11·8	10·2	11·0	05·0	98·5	03·2	12·2	97·3	06·0	24·8	19·8	22·3	23·4	20·8	22·2	17·1	07·6	11·9
21	10·4	97·1	03·7	07·0	02·0	03·4	00·6	92·3	94·6	23·7	19·5	21·7	28·9	20·9	24·1	24·9	17·1	21·7
22	14·2	96·3	02·2	10·9	07·0	09·4	09·1	00·6	04·4	23·7	19·2	21·6	30·1	28·5	29·3	25·4	23·3	24·6
23	27·5	14·2	22·9	09·3	02·0	05·0	08·9	98·5	03·8	19·2	13·7	15·8	28·8	21·9	25·0	23·4	18·2	20·9
24	27·5	23·5	25·6	02·0	99·2	00·2	11·1	98·2	03·9	25·2	15·6	21·4	22·2	18·3	20·5	19·4	17·1	17·8
25	23·5	14·7	19·4	07·6	00·0	03·7	11·0	98·9	04·3	25·2	13·7	20·7	18·3	12·9	15·0	22·2	19·3	20·9
26	14·7	10·6	11·8	13·1	07·6	10·0	03·1	97·4	99·5	13·7	10·2	11·2	13·5	08·4	11·1	23·4	21·5	22·4
27	10·6	04·1	06·5	26·0	13·1	19·3	22·3	03·1	14·5	13·0	11·0	12·2	12·6	06·8	10·1	22·0	19·8	20·8
28	06·0	03·4	04·5	28·2	26·0	27·3	23·8	21·8	22·8	13·8	10·6	12·1	20·9	10·9	14·5	19·9	12·8	16·5
29	05·8	02·4	03·6				29·2	23·2	25·4	13·6	10·0	11·8	29·5	20·9	25·4	12·8	07·8	09·8
30	02·8	00·5	01·8				29·2	25·6	27·7	16·3	12·9	14·8	29·8	25·8	28·0	15·5	11·5	14·2
31	00·5	93·1	96·0				25·6	20·3	22·6				26·3	20·4	23·5			
Mean	12·67	03·30	07·91	08·04	99·34	03·72	20·29	13·25	16·81	23·68	19·48	21·58	16·86	08·75	12·90	17·76	11·90	14·76

	JULY			AUGUST			SEPTEMBER			OCTOBER			NOVEMBER			DECEMBER		
	Max.	Min.	Mean	Max.	Min.	Mean	Max.	Min.	Mean	Max.	Min.	Mean	Max.	Min.	Mean	Max.	Min.	Mean
	<i>millibars</i>																	
1	15·4	08·0	11·7	19·7	16·2	18·2	15·0	11·7	13·3	28·8	23·6	26·8	16·5	12·2	14·7	16·2	07·3	10·1
2	15·1	10·8	13·9	18·8	16·4	17·8	11·7	06·3	08·4	23·6	13·2	17·9	12·2	03·6	06·8	21·7	16·1	19·7
3	13·3	05·9	08·7	21·9	17·1	19·0	14·5	09·2	12·7	13·2	10·9	11·8	03·9	95·0	00·3	26·5	17·3	20·4
4	16·5	08·4	11·9	23·7	21·8	22·6	15·8	13·3	14·4	13·5	09·5	12·4	01·6	93·8	96·7	34·8	26·2	31·4
5	23·5	16·5	20·5	22·7	19·0	20·9	13·3	07·6	10·0	12·4	99·5	07·5	06·5	01·6	04·0	34·8	26·5	30·9
6	27·4	23·5	24·9	19·2	16·0	17·4	17·9	12·3	15·8	13·5	98·4	05·4	10·0	06·5	08·7	26·5	22·1	24·5
7	29·3	27·3	28·3	17·7	15·3	16·5	18·5	15·4	17·1	18·7	13·5	17·2	08·5	04·2	06·3	22·1	17·2	18·9
8	29·3	24·4	26·6	18·0	16·1	17·1	16·0	09·9	12·8	24·0	16·6	19·9	08·3	99·7	04·0	25·9	20·3	23·4
9	24·9	20·5	22·7	20·7	17·5	18·5	15·3	08·9	11·5	25·9	23·4	24·8	99·7	91·6	95·2	21·1	97·9	09·9
10	20·6	16·1	18·2	22·6	20·7	21·6	17·7	15·3	16·7	23·4	17·8	20·0	04·7	98·1	02·8	00·2	94·3	96·5
11	16·4	13·7	15·3	22·5	14·4	18·5	17·5	14·6	15·6	18·2	16·6	17·4	08·3	01·4	03·7	10·1	00·2	06·5
12	16·6	15·1	16·0	14·4	11·3	12·8	18·3	15·2	17·1	22·0	17·8	19·6	18·4	08·3	13·8	12·1	09·7	10·9
13	17·6	15·6	16·6	13·8	12·8	13·3	15·2	02·4	06·8	25·6	22·0	24·1	22·4	18·4	20·3	10·4	97·7	04·1
14	19·2	16·2	17·3	16·0	13·2	14·5	03·1	00·6	01·8	26·0	20·1	23·8	27·7	22·3	24·7	97·7	80·3	85·3
15	23·0	19·2	21·1	20·6	16·0	18·0	09·5	01·2	04·2	23·9	16·3	18·9	35·7	27·7	31·7	82·0	73·9	78·4
16	23·3	20·4	22·0	21·4	17·1	19·8	15·4	09·5	12·1	23·8	06·4	16·7	36·5	35·2	35·9	91·1	80·8	87·1
17	20·9	16·1	18·3	17·1	12·8	14·3	21·9	15·4	19·6	06·4	04·3	05·4	35·5	33·2	34·2	02·3	90·3	93·5
18	17·4	15·5	16·5	18·5	15·4	17·2	24·2	21·5	23·0	08·7	00·8	06·5	35·7	33·2	33·9	13·1	02·3	09·4
19	21·5	17·0	19·3	21·0	17·9	18·8	24·1	21·3	22·8	00·8	89·9	92·4	36·3	35·4	35·9	13·2	03·6	10·0
20	22·0	20·1	21·1	22·7	20·6	21·6	21·5	17·4	19·0	93·9	91·2	92·3	35·8	31·0	33·0	03·6	91·7	95·7
21	22·0	20·4	21·4	23·3	21·3	22·3	17·8	14·6	16·5	05·7	93·8	98·2	33·3	32·1	32·9	11·6	93·0	02·5
22	23·2	21·7	22·5	23·1	21·1	22·1	14·6	09·3	11·1	15·9	05·7	10·7	33·3	30·5	32·4	12·7	02·5	08·5
23	24·1	20·8	22·7	23·3	21·9	22·7	17·6	09·0	12·9	21·3	15·9	18·6	30·5	24·2	26·5	05·3	99·2	02·5
24	22·4	19·2	21·1	23·0	20·0	21·8	20·8	17·6	19·6	26·7	21·3	24·1	25·9	18·6	21·5	12·0	01·0	04·7
25	20·1	16·6	18·3	20·9	15·7	18·2	21·2	18·8	19·6	27·6	21·2	25·4	30·5	25·9	29·1	21·6	12·0	18·7
26	18·2	13·6	15·9	15·5	12·7	14·3	26·5	21·2	23·5	21·2	12·7	16·1	29·3	27·1	27·8	16·6	07·5	11·9
27	14·6	11·4	13·2	17·9	13·9	15·3	27·1	25·8	26·4	15·2	11·7	13·8	27·9	25·5	27·0	17·1	12·9	14·8
28	18·9	13·6	15·5	18·6	17·4	18·1	27·3	24·9	25·8	20·0	11·3	15·0	25·5	18·8	22·0	13·3	06·1	09·0
29	21·5	18·6	20·4	19·1	17·9	18·5	28·7	26·4	27·5	20·0	14·2	17·7	19·5	16·9	18·3	09·0	87·8	03·6
30	21·5	19·4	20·7	18·6	14·8	16·8	28·1	25·0	26·3	16·1	12·4	13·9	19·3	10·5	16·1	13·1	86·8	00·0
31	21·6	18·3	20·2	15·1	11·1	12·8				16·9	15·7	16·3				19·2	13·0	16·0
Mean	20·69	16·90	18·80	19·72	16·63	18·11	18·54	14·05	16·13	17·84	11·22	14·53	21·31	16·08	18·67	13·45	03·15	08·35

PRESSURE AT STATION LEVEL

105

Monthly and annual means of hourly values in millibars at exact hours, G.M.T.

155 KEW OBSERVATORY: $h_b = 10.4$ m.

	Hour G.M.T.																								Mean	
	0	1	2	3	4	5	6	7	8	9	10	11	Noon	13	14	15	16	17	18	19	20	21	22	23		24
	<i>millibars</i>																									
Jan.	08.91	08.81	08.76	08.65	08.35	08.07	08.01	08.08	08.23	08.34	08.29	08.13	07.70	07.27	06.99	06.94	07.05	07.22	07.45	07.63	07.79	07.92	07.90	07.91	07.82	07.91
Feb.	03.19	03.07	03.07	02.89	02.87	03.03	03.13	03.36	03.72	03.95	04.09	04.30	04.15	03.94	03.79	03.74	03.74	03.82	03.92	03.93	03.95	04.09	04.24	04.38	04.39	03.72
Mar.	17.51	17.35	17.17	16.86	16.65	16.63	16.64	16.82	16.95	17.02	17.01	16.95	16.72	16.50	16.33	16.18	16.04	16.18	16.48	16.78	17.00	17.20	17.24	17.34	17.34	16.81
Apr.	21.88	21.81	21.69	21.60	21.54	21.63	21.87	22.08	22.22	22.30	22.24	22.00	21.78	21.55	21.25	20.98	20.80	20.74	20.80	21.05	21.42	21.54	21.61	21.65	21.62	21.58
May	13.21	13.07	12.95	12.88	12.77	12.88	13.08	13.19	13.24	13.19	13.12	12.94	12.83	12.71	12.54	12.40	12.39	12.30	12.37	12.57	12.91	13.27	13.38	13.45	13.43	12.90
June	15.28	15.16	14.97	14.75	14.71	14.77	14.85	14.95	15.02	14.99	14.89	14.75	14.72	14.58	14.46	14.35	14.17	14.18	14.31	14.49	14.70	14.97	15.11	15.18	15.11	14.76
July	19.00	18.97	18.89	18.83	18.86	18.99	19.17	19.36	19.45	19.39	19.30	19.17	18.95	18.72	18.47	18.22	17.97	17.85	17.85	18.06	18.38	18.82	19.02	19.14	19.14	18.80
Aug.	18.57	18.49	18.40	18.30	18.17	18.30	18.43	18.56	18.67	18.69	18.55	18.41	18.20	18.00	17.72	17.45	17.23	17.13	17.22	17.50	17.95	18.12	18.28	18.39	18.39	18.11
Sept.	16.26	16.16	16.02	15.89	15.77	15.89	16.07	16.31	16.43	16.57	16.50	16.38	16.18	15.94	15.76	15.59	15.52	15.61	15.75	16.10	16.45	16.63	16.73	16.72	16.73	16.13
Oct.	14.79	14.79	14.65	14.50	14.46	14.52	14.57	14.82	15.04	15.09	15.04	14.93	14.72	14.41	14.11	13.95	13.87	13.97	14.27	14.35	14.50	14.63	14.58	14.51	14.42	14.53
Nov.	19.09	18.99	18.91	18.77	18.56	18.55	18.53	18.61	18.84	18.92	18.93	18.84	18.49	18.25	18.04	18.07	18.21	18.42	18.69	18.83	18.85	18.98	19.01	18.93	18.89	18.67
Dec.	08.52	08.34	08.36	08.35	08.15	08.12	08.16	08.20	08.37	08.61	08.80	08.62	08.23	07.93	07.70	07.74	07.96	08.15	08.36	08.50	08.65	08.77	08.77	08.83	08.78	08.35
Annual	14.74	14.64	14.54	14.41	14.29	14.34	14.43	14.58	14.73	14.81	14.78	14.67	14.44	14.20	13.97	13.85	13.79	13.84	14.00	14.19	14.43	14.63	14.70	14.75	14.72	14.41

The initial 9 or 10 of the value is omitted, i.e. 1001.42 is printed 01.42.

PRESSURE REDUCED TO MEAN SEA LEVEL

Monthly and annual means of hourly values in millibars at exact hours, G.M.T.

156 KEW OBSERVATORY: $h_b = 10.4$ m.

	Hour G.M.T.																									
	0	1	2	3	4	5	6	7	8	9	10	11	Noon	13	14	15	16	17	18	19	20	21	22	23	24	Mean
	millibars																									
Jan.	10.21	10.11	10.06	09.95	09.65	09.37	09.31	09.38	09.53	09.64	09.59	09.42	08.99	08.56	08.28	08.23	08.34	08.51	08.74	08.92	09.08	09.21	09.19	09.20	09.11	09.20
Feb.	04.49	04.37	04.37	04.19	04.17	04.33	04.43	04.66	05.02	05.25	05.38	05.59	05.44	05.23	05.08	05.03	05.03	05.11	05.21	05.22	05.25	05.39	05.54	05.68	05.69	05.01
Mar.	18.83	18.66	18.48	18.17	17.96	17.94	17.95	18.13	18.26	18.33	18.32	18.25	18.02	17.80	17.62	17.47	17.33	17.47	17.77	18.08	18.31	18.51	18.55	18.65	18.65	18.12
Apr.	23.17	23.10	22.99	22.90	22.84	22.93	23.17	23.37	23.51	23.58	23.52	23.28	23.05	22.82	22.51	22.24	22.06	22.00	22.07	22.33	22.70	22.82	22.90	22.94	22.91	22.86
May	14.49	14.35	14.23	14.16	14.05	14.16	14.36	14.47	14.51	14.46	14.38	14.20	14.09	13.97	13.80	13.65	13.65	13.56	13.63	13.83	14.18	14.53	14.66	14.73	14.71	14.18
June	16.54	16.42	16.23	16.02	15.98	16.04	16.11	16.21	16.28	16.24	16.14	15.99	15.96	15.82	15.70	15.59	15.41	15.42	15.55	15.73	15.95	16.22	16.37	16.44	16.37	16.01
July	20.25	20.23	20.15	20.09	20.12	20.25	20.43	20.61	20.70	20.63	20.54	20.41	20.18	19.95	19.70	19.44	19.19	19.07	19.07	19.29	19.61	20.07	20.27	20.39	20.39	20.05
Aug.	19.83	19.74	19.65	19.57	19.43	19.56	19.69	19.81	19.92	19.93	19.79	19.65	19.43	19.23	18.95	18.67	18.45	18.35	18.44	18.73	19.19	19.36	19.52	19.64	19.64	19.35
Sept.	17.53	17.42	17.29	17.16	17.04	17.16	17.34	17.58	17.69	17.83	17.75	17.63	17.43	17.18	17.00	16.83	16.76	16.85	17.00	17.35	17.70	17.89	17.99	17.98	17.99	17.38
Oct.	16.07	16.07	15.93	15.78	15.74	15.80	15.85	16.10	16.32	16.37	16.31	16.20	15.99	15.67	15.37	15.21	15.13	15.23	15.54	15.62	15.77	15.91	15.86	15.79	15.70	15.81
Nov.	20.39	20.28	20.20	20.06	19.85	19.84	19.82	19.90	20.13	20.21	20.22	20.13	19.77	19.53	19.32	19.35	19.49	19.70	19.97	20.11	20.14	20.27	20.30	20.22	20.18	19.96
Dec.	09.80	09.62	09.65	09.63	09.43	09.41	09.45	09.49	09.65	09.90	10.08	09.90	09.51	09.20	08.97	09.01	09.23	09.43	09.63	09.78	09.93	10.05	10.05	10.11	10.06	09.63
Annual	16.02	15.92	15.82	15.69	15.57	15.62	15.71	15.86	16.01	16.09	16.05	15.94	15.71	15.46	15.23	15.11	15.05	15.10	15.26	15.46	15.70	15.90	15.98	16.03	16.00	15.68

The initial 9 or 10 of the value is omitted, i.e. 1001.42 is printed 01.42.

The monthly and annual values of pressure reduced to mean sea level are computed from the corresponding monthly and annual means of pressure at station level and of temperature. See General Introduction to the Meteorological Tables, 1938.

TEMPERATURE

Monthly and annual means of readings in degrees Absolute at exact hours, G.M.T.

157 KEW OBSERVATORY: North-wall screen: $h_t = 3.0$ m.

	Hour G.M.T.																								Mean	
	0	1	2	3	4	5	6	7	8	9	10	11	Noon	13	14	15	16	17	18	19	20	21	22	23		24
	degrees														Absolute											
Jan.	76.36	76.18	76.05	76.08	75.96	75.80	75.82	75.75	75.92	76.16	76.36	76.79	77.21	77.44	77.44	77.39	77.18	76.99	76.91	76.78	76.67	76.70	76.65	76.62	76.51	76.55
Feb.	75.31	75.20	75.08	74.96	74.82	74.69	74.47	74.37	74.53	74.99	75.57	76.21	76.77	77.11	77.37	77.41	77.12	76.62	76.26	75.78	75.53	75.29	75.11	75.13	74.97	75.65
Mar.	75.64	75.39	75.20	74.96	74.95	74.77	74.75	74.75	75.38	76.38	77.22	77.90	78.60	79.16	79.45	79.83	79.86	79.38	78.75	78.01	77.42	76.96	76.47	76.00	75.85	76.97
Apr.	80.89	80.45	80.12	79.95	79.79	79.48	79.59	80.28	81.29	82.36	83.30	84.41	85.25	85.83	86.45	86.72	86.77	86.50	85.70	84.54	83.51	82.81	82.05	81.50	81.10	82.90
May	81.71	81.44	81.24	81.13	80.96	80.93	81.53	82.14	83.07	84.01	84.89	85.62	85.75	86.01	86.31	86.48	86.19	86.15	85.66	84.87	83.79	82.86	82.21	81.86	81.65	83.62
June	86.08	85.69	85.40	85.06	84.88	85.08	85.69	86.38	87.21	88.00	88.94	89.70	90.26	90.65	90.96	91.23	91.14	90.98	90.63	89.88	88.69	87.86	87.24	86.71	86.29	88.10
July	88.66	88.13	87.62	87.30	87.11	87.18	87.95	88.62	89.71	90.81	91.76	92.92	93.82	94.71	95.34	95.72	95.83	95.56	95.12	94.27	92.77	91.42	90.23	89.30	88.62	91.33
Aug.	89.30	88.90	88.50	88.23	87.91	87.92	88.34	89.00	90.00	91.17	92.25	93.12	94.00	94.75	95.41	95.76	95.81	95.49	94.77	93.74	92.40	91.50	90.74	90.01	89.43	91.63
Sept.	85.94	85.70	85.48	85.21	84.88	84.77	84.84	85.29	86.43	87.72	88.84	89.68	90.23	90.84	90.90	91.14	91.02	90.37	89.52	88.43	87.59	87.04	86.51	86.04	85.66	87.68
Oct.	81.58	81.43	81.10	80.86	80.64	80.54	80.56	80.55	81.30	82.18	83.18	84.17	84.91	85.54	85.83	85.78	85.45	84.78	85.81	83.08	82.53	82.12	81.77	81.43	81.28	82.70
Nov.	80.33	80.16	79.97	79.90	79.78	79.86	79.71	79.77	80.08	80.56	81.28	82.01	82.47	82.90	83.11	82.84	82.35	81.99	81.80	81.60	81.41	81.26	80.92	80.62	80.49	81.11
Dec.	79.64	79.65	79.52	79.37	79.16	79.12	79.11	78.91	79.03	79.22	79.73	80.29	80.90	81.35	81.48	81.38	80.96	80.68	80.46	80.24	80.00	80.05	79.92	79.78	79.58	80.00
Annual	81.82	81.56	81.31	81.12	80.94	80.88	81.07	81.36	82.04	82.84	83.65	84.45	85.06	85.57	85.88	86.02	85.86	85.51	85.00	84.32	83.57	83.03	82.53	82.12	81.82	83.23

TEMPERATURE

Maximum, minimum and daily mean values in degrees Absolute for each day 0h. to 24h., G.M.T.
The initial 2 or 3 of the values is omitted, i.e. 275.0° is printed 75.0°. Add 0.16° to obtain temperature
in degrees Kelvin where $T(^{\circ}\text{K.}) = t(^{\circ}\text{C.}) + 273.16$

158 KEW OBSERVATORY: North-wall screen: h_t (height of thermometer bulb above ground) = 3.0 m.

	JANUARY			FEBRUARY			MARCH			APRIL			MAY			JUNE		
	Max.	Min.	Mean	Max.	Min.	Mean	Max.	Min.	Mean	Max.	Min.	Mean	Max.	Min.	Mean	Max.	Min.	Mean
	degrees Absolute																	
1	77.0	74.8	76.2	83.7	80.0	81.7	79.3	69.2	73.9	84.6	75.4	79.3	86.2	80.5	83.7	93.3	81.6	86.2
2	76.7	74.9	75.7	82.3	77.1	79.8	79.1	70.4	74.5	85.3	72.7	79.4	87.1	82.2	84.4	94.3	82.1	88.5
3	76.5	74.6	75.4	82.4	78.2	80.0	81.3	72.3	76.2	84.7	78.4	82.0	85.9	80.1	83.2	92.3	86.8	88.6
4	75.1	72.5	73.7	81.6	77.3	79.4	80.3	71.9	76.6	87.3	80.8	83.2	87.3	82.6	84.4	89.5	83.6	86.7
5	75.9	74.0	74.8	79.1	75.3	77.6	78.4	73.5	76.1	87.8	80.1	83.7	88.5	82.4	85.2	94.1	80.1	88.2
6	77.0	75.2	76.1	79.4	75.3	77.3	76.3	73.0	74.6	87.1	76.1	82.3	87.7	81.7	83.9	96.0	84.4	90.1
7	76.8	74.4	75.2	84.7	75.3	80.5	74.8	72.7	73.5	87.0	77.5	82.3	89.1	80.7	84.5	91.3	86.5	88.6
8	75.3	74.1	74.7	84.5	79.9	82.4	75.7	72.5	73.8	88.2	82.6	84.5	89.5	81.6	85.3	89.5	85.0	87.0
9	76.3	73.0	74.6	82.1	74.7	79.5	76.3	72.5	74.2	87.7	81.6	84.1	88.8	83.7	85.8	86.5	80.5	84.1
10	84.3	75.4	80.0	79.0	74.2	76.2	77.9	72.4	75.1	88.0	81.1	84.6	88.3	79.5	84.3	86.9	77.8	82.7
11	84.4	72.9	76.4	76.9	71.9	74.4	77.9	73.4	75.2	91.3	83.5	87.0	86.5	77.9	82.0	87.5	79.5	84.3
12	74.4	69.9	72.3	76.3	71.4	74.1	77.1	72.7	74.3	88.4	82.7	85.9	87.9	78.9	83.2	88.8	82.1	85.0
13	74.2	70.1	72.6	75.8	72.9	74.1	78.6	72.3	74.9	90.8	80.9	86.3	90.1	79.6	84.8	91.0	83.3	86.6
14	74.8	69.7	73.1	76.9	71.7	74.7	82.8	74.2	78.8	86.2	78.2	82.1	84.9	78.5	81.4	90.7	82.5	87.2
15	79.6	68.3	74.2	76.9	72.7	74.6	82.9	77.6	80.4	84.3	77.3	79.8	84.8	77.2	80.9	96.0	87.9	91.6
16	82.4	72.2	78.0	77.8	71.0	73.6	84.0	78.1	81.1	86.1	75.1	80.1	85.8	79.6	81.8	95.3	85.7	90.1
17	76.2	70.4	73.1	75.3	69.2	72.4	79.8	74.4	77.2	86.5	75.3	80.8	86.5	74.7	81.7	91.3	82.6	87.3
18	76.6	70.8	73.7	74.0	70.5	72.7	80.4	71.4	76.3	85.7	77.3	80.2	83.2	76.3	79.7	89.2	81.8	85.4
19	77.0	69.3	72.6	74.2	71.2	72.7	78.9	72.6	75.8	87.0	76.4	81.1	83.3	77.1	80.1	88.6	82.4	86.3
20	76.3	69.3	73.4	75.3	68.1	72.1	79.6	69.7	75.1	90.2	74.0	81.9	84.4	76.6	80.3	93.3	86.2	89.0
21	81.7	76.0	79.7	73.9	72.0	73.1	82.1	71.3	76.7	84.1	76.9	80.5	83.1	76.4	80.1	94.1	85.8	89.7
22	81.7	78.5	80.0	74.0	72.1	73.0	78.2	71.6	76.0	88.0	75.4	81.6	87.3	77.2	82.7	94.1	84.9	89.4
23	79.4	76.0	77.8	75.7	73.0	74.3	85.2	77.1	81.7	87.8	77.9	83.5	90.7	78.9	85.3	92.6	88.2	90.1
24	79.5	75.4	77.3	75.4	73.6	74.4	85.7	79.7	83.2	86.0	77.1	81.8	90.0	82.7	87.0	94.3	87.9	90.3
25	80.0	77.4	78.7	75.3	73.3	74.6	90.3	80.0	84.3	86.5	74.1	80.8	88.9	81.0	84.3	95.4	87.4	90.7
26	79.4	76.3	78.2	73.8	72.4	73.2	85.4	79.2	83.4	90.4	80.4	84.9	87.8	80.9	84.8	94.8	85.8	90.5
27	81.6	77.2	79.3	75.1	72.0	73.1	81.0	75.7	78.7	87.7	82.0	84.9	90.8	83.2	85.9	92.9	86.4	90.3
28	82.2	74.0	79.8	78.4	67.6	72.8	79.7	73.9	76.8	86.5	84.0	85.0	85.7	82.5	84.2	93.5	83.8	88.9
29	83.3	81.1	82.2				79.9	72.6	76.1	92.8	83.2	87.5	91.0	80.7	85.7	93.2	86.6	89.3
30	84.2	80.4	82.3				77.7	72.4	74.7	90.0	82.3	85.9	93.2	80.2	86.5	94.7	86.3	90.0
31	83.7	80.7	82.0				83.0	70.2	77.1				91.1	80.7	85.0			
Mean	78.8	74.2	76.5	77.9	73.4	75.7	80.3	73.6	77.0	87.5	78.7	82.9	87.6	79.9	83.6	92.2	84.2	88.1

	JULY			AUGUST			SEPTEMBER			OCTOBER			NOVEMBER			DECEMBER		
	Max.	Min.	Mean	Max.	Min.	Mean	Max.	Min.	Mean	Max.	Min.	Mean	Max.	Min.	Mean	Max.	Min.	Mean
	degrees Absolute																	
1	91.3	85.8	88.4	99.1	85.1	92.3	96.1	87.0	91.5	90.1	79.6	85.1	81.9	71.4	75.6	81.7	77.5	79.4
2	91.8	83.1	87.7	99.3	86.4	93.1	98.2	88.6	92.8	89.8	81.4	85.5	82.5	72.5	78.0	82.0	74.6	78.7
3	90.3	85.1	87.3	93.2	86.6	90.4	94.9	86.2	90.5	86.5	79.8	83.5	86.2	81.7	84.2	85.2	80.7	83.2
4	92.9	83.6	88.1	95.2	85.1	90.2	94.5	87.3	90.8	88.1	78.0	83.7	87.7	80.1	85.5	81.6	73.4	78.8
5	92.5	83.8	88.2	96.6	86.8	91.3	93.1	87.2	90.0	86.8	81.3	84.4	88.4	81.7	85.4	83.6	73.3	79.2
6	95.1	83.6	89.7	95.3	86.5	90.7	92.3	84.2	88.3	87.3	83.2	84.8	89.3	80.1	85.4	84.8	83.3	84.0
7	97.6	83.5	91.8	91.9	82.3	87.8	95.4	81.8	88.9	86.2	81.3	83.9	88.3	83.7	86.3	85.6	82.8	84.0
8	96.5	87.1	92.1	93.3	80.7	87.4	94.8	85.0	90.0	92.6	82.0	87.2	87.3	82.1	84.7	82.8	75.9	78.8
9	98.3	85.7	91.0	91.6	82.2	88.2	93.1	85.3	88.8	91.7	80.3	85.4	86.2	84.0	85.1	84.2	77.2	82.4
10	97.7	85.6	91.6	94.1	86.0	89.7	91.0	84.1	86.9	92.1	81.2	86.3	86.3	82.7	84.8	84.4	80.1	81.9
11	99.7	85.3	91.7	95.8	86.8	91.1	90.6	84.6	88.3	87.6	79.5	83.1	87.1	83.0	85.1	80.2	76.4	77.9
12	00.3	89.2	94.9	98.3	88.1	93.4	89.1	84.0	86.5	89.0	80.7	84.2	86.0	80.6	83.0	77.8	72.7	75.7
13	00.6	89.8	95.1	90.4	87.7	88.5	91.0	82.2	85.9	91.0	81.7	86.0	84.0	80.0	82.0	82.6	73.6	77.9
14	01.2	90.2	94.9	93.2	87.8	89.6	87.6	81.2	83.7	88.5	82.7	85.8	83.2	80.0	81.6	84.6	82.4	83.2
15	00.2	90.1	94.5	97.7	85.1	91.4	89.2	81.2	84.8	88.2	77.0	84.5	83.1	76.5	80.0	83.4	80.4	82.3
16	01.1	87.8	94.9	97.7	86.6	91.7	88.3	82.0	85.2	82.0	73.8	78.4	81.0	74.3	78.2	84.3	80.1	81.9
17	03.1	87.4	95.7	97.3	90.2	93.0	91.0	81.7	85.8	81.8	75.6	78.8	82.7	77.9	80.3	81.2	77.5	79.5
18	94.2	89.2	91.8	96.3	90.0	92.3	91.2	81.2	85.7	83.4	72.8	78.4	81.0	73.3	78.5	78.3	73.1	75.9
19	94.2	86.7	89.8	97.7	90.8	93.4	92.7	78.0	85.2	85.8	80.9	83.7	81.6	77.6	79.9	76.6	69.0	73.7
20	94.3	85.9	89.8	00.8	87.7	94.1	95.2	81.7	87.5	84.5	82.7	83.9	83.0	78.5	81.0	81.4	75.9	78.8
21	93.7	87.1	89.9	02.1	90.2	95.5	92.3	82.2	88.2	84.2	80.9	82.3	82.4	80.0	80.8	81.0	73.3	77.0
22	97.4	86.9	90.9	03.1	90.8	96.4	92.8	88.3	90.7	84.1	79.1	81.8	82.4	78.7	80.9	81.0	69.7	76.3
23	00.4	83.7	92.5	01.9	89.5	96.0	92.1	84.3	88.1	85.1	81.1	83.3	83.4	78.4	81.1	83.5	79.6	81.4
24	95.3	86.3	89.6	00.8	89.5	94.1	92.0	82.8	87.4	85.9	80.6	82.8	82.9	76.0	79.4	82.4	79.6	81.1
25	97.6	85.4	90.7	98.8	87.5	93.4	93.1	84.7	89.4	88.6	80.8	84.0	79.7	74.5	76.6	83.1	76.6	79.8
26	95.2	85.3	89.9	97.5	86.4	91.4	90.1	83.1	86.1	88.0	79.4	84.3	80.5	76.0	77.9	85.6	80.0	83.1
27	98.6	86.0	91.7	96.0	89.5	92.1	88.4	80.5	85.2	82.0	76.5	78.9	80.7	77.0	79.5	86.3	79.8	82.8
28	97.8	88.1	92.3	92.4	88.2	90.3	89.1	81.7	85.6	81.2	74.9	77.9	81.6	78.3	80.1	86.9	82.6	85.2
29	93.3	88.0	90.4	92.4	85.3	89.4	91.3	78.6	85.3	81.8	73.3	77.7	79.5	74.8	77.2	83.2	79.1	81.1
30	97.4	89.1	92.1	97.0	84.2	90.5	90.7	82.7	87.2	80.8	74.0	78.0	78.3	71.8	75.1	79.2	74.6	77.4
31	98.7	85.9	92.0	98.0	86.6	92.0				81.1	71.7	76.2				81.0	75.0	77.6
Mean	96.7	86.5	91.3	96.6	87.0	91.6	92.0	83.4	87.7	86.3	79.0	82.7	83.6	78.2	81.1	82.6	77.1	80.0
									Annual	86.9	79.6	83.2						

MEAN RELATIVE HUMIDITY AND VAPOUR PRESSURE FOR EACH DAY

107

Mean percentage from readings at exact hours 0h. to 24h., G.M.T.; vapour pressure from daily mean temperature and relative humidity

159 KEW OBSERVATORY: North-wall screen: $h_t = 3.0$ m.

	JANUARY		FEBRUARY		MARCH		APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER		OCTOBER		NOVEMBER		DECEMBER	
	Rel. hum.	Vap. press.	Rel. hum.	Vap. press.	Rel. hum.	Vap. press.	Rel. hum.	Vap. press.	Rel. hum.	Vap. press.	Rel. hum.	Vap. press.	Rel. hum.	Vap. press.	Rel. hum.	Vap. press.	Rel. hum.	Vap. press.	Rel. hum.	Vap. press.	Rel. hum.	Vap. press.	Rel. hum.	Vap. press.
	%	mb.	%	mb.	%	mb.	%	mb.	%	mb.	%	mb.	%	mb.	%	mb.	%	mb.	%	mb.	%	mb.	%	mb.
1	71.6	5.5	81.9	9.2	73.4	4.8	69.8	6.7	88.7	11.4	71.7	10.9	83.0	14.5	67.5	15.1	67.6	14.4	78.6	11.1	84.8	6.3	95.2	9.2
2	70.3	5.2	84.9	8.4	75.2	5.1	77.6	7.5	69.7	9.4	64.7	11.4	61.9	10.4	71.2	16.8	75.0	17.3	80.5	11.7	82.5	7.2	93.9	8.6
3	69.1	5.0	84.5	8.5	71.2	5.5	84.8	9.7	80.5	10.0	61.7	10.9	80.4	13.1	81.5	16.2	71.8	14.4	92.6	11.8	92.3	12.3	86.5	10.8
4	86.1	5.5	86.6	8.3	65.1	5.1	80.0	10.0	71.5	9.6	77.7	12.2	66.2	11.4	76.3	15.0	69.5	14.2	77.5	10.0	96.2	13.9	88.5	8.2
5	93.4	6.5	85.6	7.3	69.4	5.3	82.7	10.6	65.4	9.3	66.5	11.5	69.8	12.1	64.0	13.5	81.7	15.8	82.0	11.1	92.3	13.3	92.0	8.7
6	89.8	6.9	73.4	6.1	78.5	5.4	82.7	9.7	81.7	10.7	69.7	13.6	68.3	13.0	72.5	14.7	75.1	13.1	60.5	8.4	93.1	13.4	80.6	10.6
7	80.2	5.7	86.7	9.0	80.5	5.1	86.3	10.1	61.3	8.3	82.0	14.5	67.8	14.7	65.5	11.0	74.8	13.5	73.5	9.6	89.1	13.6	82.4	10.8
8	74.9	5.2	71.6	8.4	75.8	4.9	79.2	10.7	66.0	9.4	83.9	13.4	69.0	15.3	62.6	10.3	77.8	15.1	90.2	14.6	91.7	12.6	78.7	7.3
9	78.5	5.4	79.3	7.7	74.6	5.0	64.1	8.5	77.7	11.5	77.0	10.2	68.2	19.1	67.8	11.7	82.7	14.8	86.3	12.4	87.7	12.4	85.5	10.1
10	90.4	9.1	75.6	5.8	63.7	4.5	79.9	10.9	77.0	10.3	66.5	8.0	63.7	13.7	68.1	13.0	72.0	11.4	79.9	12.2	86.0	11.9	69.2	7.9
11	82.4	6.4	70.3	4.8	74.2	5.3	69.7	11.1	57.5	6.6	75.8	10.1	79.9	17.2	79.1	16.4	87.0	15.1	95.3	11.8	81.3	11.5	82.8	7.2
12	83.3	4.8	75.9	5.0	61.3	4.1	77.3	11.5	60.4	7.5	83.7	11.7	65.9	17.3	62.9	15.1	77.0	11.9	91.7	12.2	87.5	10.7	69.6	5.2
13	86.2	5.1	79.3	5.2	64.6	4.5	61.8	9.4	79.1	10.9	65.6	10.2	74.1	19.7	86.8	15.3	82.1	12.2	91.9	13.8	85.4	9.8	91.8	7.9
14	84.0	5.2	86.0	5.9	69.0	6.4	63.6	7.4	72.2	8.0	82.3	13.3	76.9	20.2	87.8	16.6	72.7	9.4	91.3	13.5	72.0	8.0	93.2	11.6
15	93.5	6.2	74.4	5.1	70.6	7.3	65.6	6.5	68.0	7.2	75.7	16.2	74.6	19.1	73.9	15.6	68.8	9.5	74.1	10.1	75.5	7.6	91.4	10.7
16	89.2	7.8	85.5	5.5	62.5	6.7	61.0	6.2	73.1	8.3	74.5	14.5	70.2	18.4	74.8	16.1	86.3	12.3	63.7	5.7	83.0	7.3	89.1	10.2
17	72.8	4.5	72.5	4.2	52.8	4.4	64.9	6.9	89.4	10.1	68.0	11.1	62.2	17.2	72.6	17.0	74.8	11.1	77.2	7.1	77.3	7.9	92.7	9.0
18	77.3	5.0	84.3	5.0	59.0	4.6	73.7	7.4	70.0	6.9	68.8	9.9	78.6	17.1	83.7	18.7	76.2	11.2	76.5	6.9	78.0	7.1	79.0	5.9
19	87.0	5.2	84.3	5.0	62.3	4.7	58.0	6.3	68.0	6.9	90.0	13.8	66.7	12.8	76.9	18.4	79.6	11.3	90.1	11.6	76.3	7.6	89.3	5.7
20	86.1	5.4	75.1	4.3	64.5	4.6	66.0	7.5	82.4	8.4	81.0	14.7	65.9	12.6	78.3	19.6	80.3	13.3	92.9	12.1	79.2	8.5	88.6	8.2
21	98.0	9.6	85.4	5.3	60.1	4.8	71.8	7.4	75.0	7.6	70.3	13.4	70.3	13.5	70.6	19.3	91.8	15.9	82.1	9.6	80.1	8.5	83.4	6.8
22	98.2	9.8	77.7	4.7	85.9	6.5	60.2	6.7	67.0	8.1	78.5	14.6	66.0	13.5	67.0	19.3	90.7	18.4	82.7	9.4	86.6	9.2	94.3	7.3
23	93.0	8.0	85.3	5.7	84.4	9.5	60.3	7.7	73.1	10.5	84.8	16.5	71.2	16.1	67.7	19.0	85.7	14.7	93.0	11.7	74.1	8.0	82.5	9.1
24	91.5	7.6	89.5	6.1	80.1	10.0	55.8	6.3	74.1	11.8	81.0	16.0	82.0	15.5	75.9	19.0	85.9	14.1	83.2	10.1	79.0	7.6	88.3	9.5
25	92.3	8.5	87.3	6.0	86.6	11.6	61.3	6.5	77.7	10.4	72.1	14.6	70.8	14.3	60.1	14.4	79.2	14.8	79.8	10.5	83.8	6.6	85.9	8.5
26	89.3	7.9	71.7	4.4	89.3	11.3	61.5	8.6	79.8	11.0	60.5	12.1	73.0	14.1	72.1	15.3	69.9	10.5	80.7	10.8	83.0	7.2	87.7	10.8
27	87.2	8.3	67.2	4.1	70.7	6.5	76.9	10.7	85.4	12.7	68.4	13.5	70.4	15.2	75.9	16.8	70.5	10.0	76.5	7.1	77.6	7.5	83.6	10.1
28	95.1	9.4	78.6	4.7	59.5	4.8	87.7	12.3	88.3	11.7	78.4	14.2	66.6	14.9	83.2	16.4	73.0	10.7	72.3	6.3	77.4	7.8	77.2	11.0
29	90.0	10.5			61.6	4.7	78.5	13.0	61.8	9.1	82.1	15.2	72.8	14.5	84.8	15.8	81.3	11.6	77.0	6.6	78.8	6.5	71.9	7.8
30	88.3	10.4			59.4	4.1	74.9	11.1	57.2	8.9	68.6	13.3	72.6	16.1	82.0	16.4	83.4	13.5	83.6	7.3	95.5	6.8	77.8	6.5
31	84.6	9.7			59.8	4.9			76.7	10.8			68.4	15.0	73.5	16.1			81.3	6.3			80.3	6.8
Mean*	85.6	6.9	80.0	6.1	69.9	5.9	71.3	8.8	73.4	9.5	74.4	12.9	70.9	15.1	73.8	15.9	78.1	13.2	81.9	10.1	83.6	9.3	84.9	8.6

*Mean of the column.

RELATIVE HUMIDITY

Monthly and annual means of values at exact hours, G.M.T.

160 KEW OBSERVATORY: $h_t = 3.0$ m.

	Hour G.M.T.																									Mean*	
	0	1	2	3	4	5	6	7	8	9	10	11	Noon	13	14	15	16	17	18	19	20	21	22	23	24		
	per cent.																										
Jan.	87.2	87.2	88.2	88.8	88.4	88.0	88.0	88.7	87.7	87.4	85.9	84.9	82.5	80.5	79.6	80.2	81.2	83.3	84.3	85.3	85.9	86.5	87.1	87.5	87.5	85.6	
Feb.	84.9	85.4	85.8	86.3	86.4	86.1	85.9	86.9	85.8	83.1	80.5	76.4	72.1	69.6	67.5	68.4	70.1	74.2	78.1	79.5	79.8	81.2	82.7	83.7	84.9	80.0	
Mar.	79.8	80.2	81.5	82.5	82.0	82.1	81.8	81.9	78.4	72.3	67.2	62.8	59.6	56.2	55.5	53.2	53.2	54.8	58.6	62.5	67.2	71.5	74.7	77.6	79.2	69.9	
Apr.	80.6	83.1	85.3	85.6	85.4	86.6	84.8	83.3	78.4	73.8	69.6	64.3	60.4	57.2	53.1	52.8	52.7	53.9	57.8	63.2	68.8	72.3	77.2	79.8	81.2	71.3	
May	84.5	85.1	85.9	86.5	87.4	87.1	85.2	81.0	74.8	67.8	62.6	58.5	60.4	60.2	59.7	61.2	62.1	62.2	65.2	67.6	74.2	77.5	81.7	83.7	84.4	73.4	
June	85.1	86.7	87.5	89.1	89.0	88.3	84.8	81.5	78.3	74.5	70.6	66.3	64.2	62.6	61.4	60.4	60.7	60.4	60.6	65.4	70.6	67.3	79.1	82.2	84.3	74.4	
July	84.6	86.4	88.3	89.4	89.2	88.3	84.3	80.9	75.4	70.0	65.9	61.2	58.0	54.6	53.0	52.2	52.6	53.3	55.9	60.1	66.0	72.2	77.2	81.8	85.1	70.9	
Aug.	83.8	86.3	88.1	89.8	91.1	91.3	90.5	88.1	82.6	76.8	71.0	66.3	62.7	58.8	55.6	55.0	54.3	55.4	58.8	62.9	70.2	73.8	76.9	80.4	83.4	73.8	
Sept.	87.7	88.8	89.5	90.2	91.5	92.2	90.5	89.1	84.5	78.0	71.8	66.3	63.6	61.4	62.0	60.4	61.0	65.0	69.7	76.2	80.5	82.6	85.5	87.2	88.0	78.1	
Oct.	88.5	88.0	89.1	89.7	90.3	90.5	89.9	91.2	88.7	85.3	80.9	75.6	71.1	67.2	65.6	67.0	69.5	72.8	78.5	81.2	83.6	84.9	87.5	88.5	89.0	81.9	
Nov.	87.5	88.6	88.4	88.4	88.4	88.8	87.9	88.1	87.8	85.4	83.1	79.8	77.4	74.4	73.6	75.2	78.7	81.7	82.6	83.2	83.0	83.3	84.5	86.2	87.4	83.6	
Dec.	86.8	85.5	85.3	86.5	87.4	87.9	87.9	88.1	87.8	87.1	85.9	84.2	82.0	79.5	78.8	79.0	81.5	83.2	84.3	85.6	86.2	85.9	86.0	86.0	86.7	84.9	
Mean	85.1	85.9	86.9	87.7	88.0	88.1	86.8	85.7	82.5	78.4	74.6	70.5	67.8	65.2	63.8	63.7	64.8	66.6	69.5	72.7	76.3	79.0	81.7	83.6	85.1	77.3	

VAPOUR PRESSURE

Monthly and annual means of values at exact hours, G.M.T. computed from corresponding mean values of temperature and relative humidity

161 KEW OBSERVATORY: $h_t = 3.0$ m.

	Hour G.M.T.																									Mean*	
	0	1	2	3	4	5	6	7	8	9	10	11	Noon	13	14	15	16	17	18	19	20	21	22	23	24		
	millibars																										
Jan.	6·8	6·7	7·8	6·8	6·7	6·6	6·6	6·6	6·6	6·7	6·7	6·8	6·8	6·8	6·7	6·7	6·7	6·8	6·8	6·8	6·8	6·9	6·9	6·9	6·9	6·8	
Feb.	6·1	6·1	6·1	6·1	6·0	5·9	5·8	5·9	5·9	5·9	5·9	5·9	5·8	5·7	5·6	5·7	5·7	5·9	6·0	5·9	5·9	5·8	5·9	6·0	6·0	5·9	
Mar.	5·9	5·8	5·8	5·8	5·8	5·7	5·7	5·7	5·6	5·6	5·4	5·4	5·3	5·3	5·3	5·3	5·4	5·5	5·6	5·8	5·9	5·9	5·9	5·9	5·9	5·6	
Apr.	8·6	8·6	8·6	8·5	8·4	8·4	8·2	8·5	8·6	8·7	8·7	8·7	8·6	8·5	8·2	8·3	8·3	8·3	8·5	8·6	8·7	8·8	8·9	8·9	8·8	8·6	
May	9·5	9·4	9·4	9·4	9·4	9·3	9·5	9·4	9·2	8·9	8·7	8·5	8·9	9·0	9·1	9·5	9·4	9·4	9·6	9·4	9·6	9·4	9·5	9·5	9·5	9·3	
June	12·8	12·7	12·6	12·5	12·4	12·5	12·5	12·5	12·7	12·7	12·8	12·6	12·7	12·6	12·6	12·6	12·6	12·4	12·2	12·6	12·6	12·8	12·8	12·9	12·9	12·6	
July	15·1	14·9	14·7	14·6	14·4	14·3	14·3	14·4	14·4	14·3	14·3	14·2	14·3	14·2	14·3	14·4	14·6	14·5	14·9	15·2	15·2	15·3	15·2	15·2	15·1	14·6	
Aug.	15·5	15·6	15·5	15·5	15·4	15·5	15·8	16·0	16·0	16·0	15·8	15·6	15·6	15·3	15·1	15·2	15·1	15·1	15·3	15·4	15·8	15·7	15·6	15·6	15·6	15·5	
Sept.	13·1	13·0	13·0	12·8	12·7	12·7	12·6	12·7	13·0	13·1	12·9	12·6	12·5	12·6	12·7	12·6	12·6	12·9	13·1	13·4	13·4	13·2	13·2	13·1	12·9	12·9	
Oct.	9·9	9·7	9·6	9·5	9·5	9·4	9·4	9·5	9·7	9·9	10·1	10·0	9·9	9·8	9·7	9·9	10·0	10·1	10·2	10·0	9·9	9·8	9·9	9·8	9·7	9·8	
Nov.	9·0	9·0	8·8	8·8	8·7	8·8	8·6	8·7	8·8	8·9	9·1	9·2	9·2	9·1	9·1	9·1	9·3	9·4	9·4	9·3	9·2	9·1	9·0	9·0	9·1	9·0	
Dec.	8·5	8·3	8·3	8·3	8·3	8·3	8·3	8·2	8·2	8·3	8·4	8·6	8·7	8·7	8·7	8·7	8·7	8·7	8·7	8·7	8·6	8·6	8·6	8·5	8·4	8·5	
Annual	9·7	9·6	9·5	9·5	9·4	9·4	9·4	9·4	9·5	9·5	9·6	9·5	9·5	9·5	9·5	9·6	9·6	9·7	9·7	9·7	9·7	9·7	9·7	9·6	9·6	9·6	

RAINFALL

Amount in millimetres, duration in hours and maximum rate of fall for each day 0h. to 24h., G.M.T.

162 KEW OBSERVATORY: h_r (height of receiving surface above M.S.L.) = height of station above M.S.L. + height of receiving surface above ground = 5.5 m. + 0.53 m.

	JANUARY			FEBRUARY			MARCH			APRIL			MAY			JUNE		
	Amount	Duration	Max. rate	Amount	Duration	Max. rate	Amount	Duration	Max. rate	Amount	Duration	Max. rate	Amount	Duration	Max. rate	Amount	Duration	Max. rate
	mm.	hr.	mm./hr.	mm.	hr.	mm./hr.	mm.	hr.	mm./hr.	mm.	hr.	mm./hr.	mm.	hr.	mm./hr.	mm.	hr.	mm./hr.
1	...	...	...	...	...	...	...	...	...	...	...	...	7.4	5.9	12	...	...	...
2	...	...	...	...	...	...	...	...	...	1.7	2.4	8	0.1	0.3	7	...	...	...
3	...	...	...	2.4	2.0	7	...	...	...	...	...	...	0.8	1.5	9	1.0	1.4	...
4	9.4	6.9	...	11.2	9.8	28	...	...	...	0.5	0.9	...	1.1	0.6	16	14.4	4.7	32
5	0.1	0.1	...	0.1	0.5	...	2.9	2.7	6	...	...	...	0.1	0.2	9	...	...	...
6	2.8	5.0	...	...	...	...	1.7	1.0	6	1.0	0.2	24	1.4	2.8	10	3.0	1.7	9
7	...	...	...	4.3	4.6	7	0.3	0.2	...	2.9	5.2	6	...	...	...	4.0	1.9	31
8	...	...	...	...	...	...	0.3	0.4	6	0.7	0.9	8	...	...	...	7.2	3.3	15
9	...	...	...	1.5	0.9	11	...	...	...	...	...	...	2.2	1.6	...	3.4	2.7	26
10	1.9	1.3	7	...	...	...	...	...	...	...	...	...	1.6	1.2	30	...	...	...
11	9.8	7.5	16	...	...	...	0.1	0.2	...	...	...	...	...	...	...	...	...	...
12	...	...	...	0.6	1.0	...	...	...	...	...	...	...	...	...	...	10.7	8.1	26
13	5.5	8.7	...	...	...	...	...	...	...	...	...	...	4.5	4.3	14	...	...	...
14	5.0	5.2	...	1.3	2.0	8	...	...	...	...	...	...	1.1	0.6	49	...	...	...
15	0.4	1.0	...	...	...	...	...	...	...	...	...	...	4.0	0.4	38	...	...	...
16	8.4	7.6	10	1.1	1.5	...	...	...	...	...	...	...	8.8	7.7	10	...	...	...
17	0.2	0.2	...	0.4	0.5	...	...	...	...	...	...	...	17.7	12.2	13	...	...	...
18	...	...	...	1.7	2.1	...	...	...	...	...	...	...	2.6	1.8	28	...	...	...
19	...	...	...	0.6	0.6	...	0.1	0.3	...	...	...	...	0.4	0.3	6	3.8	3.6	9
20	...	...	...	0.4	0.6	...	...	...	...	...	...	...	5.9	2.0	44	2.6	2.3	8
21	3.4	3.0	13	0.2	0.3	...	...	...	...	...	...	...	0.4	0.3	9	...	...	...
22	1.2	1.7	...	...	...	...	0.6	1.7	...	...	...	...	...	...	...	...	...	...
23	0.1	...	...	...	...	...	3.7	1.9	22	...	...	...	...	...	...	...	...	...
24	...	...	...	3.4	6.8	...	5.1	2.4	16	...	...	...	...	...	...	...	...	...
25	...	...	...	0.3	0.5	...	5.7	5.5	17	...	...	...	...	...	...	...	...	...
26	0.4	1.3	...	...	...	...	2.5	3.0	...	0.3	0.5	...	7.5	2.0	20	...	...	...
27	0.1	0.1	...	...	...	...	...	...	...	0.1	0.1	...	18.0	8.1	20	...	...	...
28	0.1	...	...	...	...	...	...	...	...	0.3	1.1	...	8.8	5.3	10	0.1	0.1	...
29	...	...	...	...	...	...	...	...	...	0.6	1.3	...	...	...	...	5.1	4.1	15
30	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
31	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Total	48.8	49.6	-	29.5	33.7	-	23.0	19.3	-	8.1	12.6	-	94.4	59.1	-	55.3	33.9	-

	JULY			AUGUST			SEPTEMBER			OCTOBER			NOVEMBER			DECEMBER		
	Amount	Duration	Max. rate	Amount	Duration	Max. rate	Amount	Duration	Max. rate	Amount	Duration	Max. rate	Amount	Duration	Max. rate	Amount	Duration	Max. rate
	mm.	hr.	mm./hr.	mm.	hr.	mm./hr.	mm.	hr.	mm./hr.	mm.	hr.	mm./hr.	mm.	hr.	mm./hr.	mm.	hr.	mm./hr.
1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	0.1	0.1	...
2	...	...	...	...	...	...	0.2	0.4	...	...	...	...	2.4	3.0	16	...	...	...
3	2.5	1.4	37	2.2	1.7	8	...	...	...	1.7	1.7	7	2.1	1.9	10	0.1	0.1	...
4	...	...	...	...	...	...	...	...	...	1.9	1.6	11	11.4	3.8	20	...	...	...
5	...	...	...	...	...	...	2.7	1.9	21	10.3	2.8	23	...	...	...	...	...	...
6	...	...	...	...	...	...	...	...	...	...	...	...	0.6	0.6	7	...	...	...
7	...	...	...	...	...	...	...	...	...	...	...	...	2.0	2.0	28	...	...	...
8	...	...	...	...	...	...	...	...	...	0.1	0.2	...	1.6	0.6	36	...	...	...
9	...	...	...	...	...	...	13.9	1.7	99	...	...	...	1.2	1.2	8	1.1	0.7	9
10	...	...	...	...	...	...	...	...	...	0.6	0.6	7	...	...	...	...	...	...
11	1.8	0.4	17	3.9	0.8	70	0.1	0.2	...	...	...	...	0.2	0.3	...	10.0	13.5	6
12	...	...	...	...	...	...	0.3	0.9	...	0.1	...	...	...	...	...	...	...	...
13	...	...	...	9.6	6.0	11	6.2	3.9	76	...	...	...	...	...	...	1.7	1.3	12
14	5.4	0.4	41	2.2	1.3	22	1.2	1.3	10	...	...	...	...	...	...	10.7	8.6	16
15	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	4.4	2.6	26
16	...	...	...	...	...	...	0.5	1.1	...	...	...	...	...	...	...	0.3	0.1	...
17	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	2.7	2.1	7
18	0.2	0.5	...	0.1	0.1	...	...	...	...	...	...	...	...	...	...	...	...	...
19	0.2	0.2	6	...	...	...	...	...	...	27.5	12.9	36	...	...	...	...	...	...
20	...	...	...	...	...	...	...	...	...	6.7	5.6	8	0.1	0.1	...	0.1	0.1	...
21	...	...	...	...	...	...	...	...	...	5.2	8.1	8	0.1	0.1	...	...	...	...
22	...	...	...	...	...	...	8.0	4.3	22	1.1	1.5	7	...	...	...	2.2	2.1	12
23	...	...	...	...	...	...	11.7	5.8	16	1.8	1.7	11	...	...	...	0.4	0.3	8
24	...	...	...	...	...	...	...	...	...	...	...	...	0.8	0.3	...	1.4	1.6	6
25	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
26	...	...	...	...	...	...	...	...	...	3.1	5.1	7	...	...	...	1.8	1.7	42
27	...	...	...	...	...	...	...	...	...	0.2	0.3	...	...	...	...	0.5	0.7	...
28	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	0.6	0.2	26
29	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	5.2	5.5	7
30	0.2	0.8	...	0.4	0.6	6	1.7	3.3	...
31
Total	10.1	2.9	-	18.0	9.9	-	45.0	22.3	-	60.1	42.1	-	23.1	14.5	-	45.0	44.6	-

RAINFALL

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Monthly and annual totals of amounts in sixty-minute periods between exact hours, G.M.T.

163 KEW OBSERVATORY: $h_r = 5.5 \text{ m.} + 0.53 \text{ m.}$

	Hour G.M.T.																								0-24
	0-1	1-2	2-3	3-4	4-5	5-6	6-7	7-8	8-9	9-10	10-11	11-12	12-13	13-14	14-15	15-16	16-17	17-18	18-19	19-20	20-21	21-22	22-23	23-24	
													<i>millimetres</i>												
Jan.	0.7	1.1	1.7	4.1	4.5	1.6	1.7	1.1	2.9	3.8	3.2	3.9	3.9	2.6	2.7	2.7	1.1	1.1	1.3	1.2	0.5	0.4	0.7	0.3	48.8
Feb.	1.5	1.2	0.8	1.4	1.7	0.6	1.6	1.3	1.4	0.9	0.7	...	0.2	0.1	0.1	0.9	1.0	1.7	3.0	2.4	3.3	1.6	1.8	0.3	29.5
Mar.	0.1	1.3	3.1	1.1	0.1	3.2	0.8	0.2	1.9	0.6	1.9	0.5	0.2	...	...	0.1	...	0.1	0.4	1.5	0.9	0.5	1.8	2.7	23.0
Apr.	0.4	0.3	...	...	0.2	0.1	0.4	0.2	...	...	...	...	...	...	0.1	0.4	0.8	0.7	1.6	0.3	1.7	0.5	0.3	0.1	8.1
May	7.2	5.3	4.9	5.0	4.0	7.2	7.1	2.7	0.7	1.4	0.2	1.4	4.5	2.7	2.7	2.0	4.5	4.3	3.2	1.7	2.4	4.3	6.9	8.1	94.4
June	3.7	2.7	2.1	8.0	4.5	8.5	3.8	1.5	1.8	3.9	...	0.5	0.8	0.8	0.6	1.5	0.3	...	2.0	2.3	0.7	0.2	2.5	2.6	55.3
July	...	...	...	0.2	...	...	...	...	...	...	...	...	...	...	...	5.4	2.0	0.4	1.6	0.5	...	...	...	...	10.1
Aug.	2.0	0.2	...	...	1.5	1.4	...	...	0.9	2.4	...	...	...	...	0.7	1.2	2.6	1.1	0.5	...	...	1.3	0.2	2.0	18.0
Sept.	0.1	0.1	1.4	5.4	2.5	1.0	2.5	1.6	0.4	0.7	0.7	0.3	3.3	9.1	0.9	3.6	1.0	1.9	1.6	4.3	1.9	0.5	0.2	...	45.0
Oct.	0.2	...	1.2	0.2	0.1	0.5	2.2	3.6	4.0	4.9	2.5	2.4	2.6	2.4	5.9	2.8	1.1	3.1	7.8	5.1	2.4	2.4	1.8	0.9	60.1
Nov.	0.7	1.7	2.4	0.3	4.4	3.0	1.0	...	0.1	0.4	1.1	1.1	1.4	0.5	0.1	0.6	...	0.5	0.4	0.6	1.0	0.3	1.1	0.4	23.1
Dec.	1.0	0.4	1.2	1.4	1.6	0.6	1.0	0.8	1.7	2.8	5.6	2.4	1.2	3.2	2.0	2.9	2.5	3.0	1.3	1.8	1.5	1.2	1.7	2.2	45.0
Annual	17.6	14.3	18.8	27.1	25.1	27.6	22.2	13.0	15.8	21.8	15.9	12.5	18.1	21.4	15.8	24.1	16.9	17.9	24.7	21.7	16.3	13.2	19.0	19.6	460.4

RAINFALL

Monthly and annual totals of durations in sixty-minute periods between exact hours, G.M.T.

164 KEW OBSERVATORY: $h_r = 5.5 \text{ m.} + 0.53 \text{ m.}$

	Hour G.M.T.																								0-24
	0-1	1-2	2-3	3-4	4-5	5-6	6-7	7-8	8-9	9-10	10-11	11-12	12-13	13-14	14-15	15-16	16-17	17-18	18-19	19-20	20-21	21-22	22-23	23-24	
													<i>hours</i>												
Jan.	1.1	1.2	1.8	2.0	2.0	1.4	1.7	2.3	3.0	3.9	2.7	3.4	2.9	3.2	2.5	3.9	1.5	2.0	0.8	1.6	1.0	1.0	1.6	1.1	49.6
Feb.	1.9	2.3	1.1	2.3	3.3	1.7	1.0	1.4	2.9	1.3	1.3	...	0.2	0.1	0.1	0.8	1.6	2.7	1.9	1.0	1.3	1.5	1.6	0.4	33.7
Mar.	...	0.9	1.9	0.9	0.3	1.2	1.0	0.3	1.4	0.7	1.6	0.6	0.8	...	...	0.1	...	0.1	0.6	1.0	1.3	1.2	1.4	2.0	19.3
Apr.	1.0	0.4	...	...	0.4	0.1	0.4	0.4	...	...	...	...	...	...	0.2	0.5	0.7	1.1	1.3	1.2	2.1	1.4	0.9	0.5	12.6
May	3.2	2.4	2.8	3.1	3.6	4.5	3.1	2.2	0.6	0.9	0.3	1.0	1.5	1.8	1.8	1.2	1.8	3.2	2.9	2.1	3.7	3.7	4.0	3.7	59.1
June	3.2	2.9	2.6	3.2	2.7	2.9	2.6	1.3	1.3	1.4	0.1	0.2	0.6	0.7	0.2	0.7	0.1	...	0.8	1.4	0.5	0.2	1.6	2.7	33.9
July	...	...	...	0.2	...	...	...	...	...	...	...	...	...	...	...	0.4	0.9	0.5	0.4	0.5	...	...	...	...	2.9
Aug.	0.7	0.6	...	...	1.1	1.1	...	...	0.3	0.1	...	...	...	...	0.7	1.0	1.0	1.0	0.6	...	...	1.0	0.1	0.6	9.9
Sept.	0.2	0.3	0.5	1.8	1.9	1.6	1.4	1.0	1.1	0.9	0.8	0.8	1.4	0.7	0.5	0.2	1.3	1.4	1.0	1.5	1.0	0.6	0.4	...	22.3
Oct.	0.3	0.3	1.7	0.3	0.2	1.0	0.9	1.0	2.4	3.5	3.3	2.4	1.2	1.8	1.8	1.0	1.3	2.8	3.3	2.8	2.2	2.5	2.9	1.2	42.1
Nov.	0.7	0.5	1.4	0.6	0.9	1.0	1.0	...	0.1	0.5	0.7	1.2	0.6	0.7	0.2	0.2	...	0.9	0.9	0.5	0.7	0.5	0.5	0.2	14.5
Dec.	1.4	1.0	1.2	2.1	2.1	0.7	0.9	0.9	2.0	2.5	3.5	1.5	1.5	2.7	2.2	1.4	2.0	2.9	2.7	2.7	2.0	1.1	1.1	1.5	44.6
Annual	13.7	12.8	15.0	16.5	18.5	18.2	14.0	10.8	15.1	15.7	14.3	11.1	10.7	11.7	10.2	11.4	12.2	18.6	17.2	16.3	15.8	14.7	16.1	13.9	344.5

NOTES ON RAINFALL

165 KEW OBSERVATORY

Dry Periods

The following definitions are adopted by the British Rainfall Organization.

An "absolute drought" is a period of at least 15 consecutive days to none of which is credited 0.2 mm. of rain or more.

A "partial drought" is a period of at least 29 consecutive days, the mean daily rainfall of which does not exceed 0.2 mm.

A "dry spell" is a period of at least 15 consecutive days to none of which is credited 1.0 mm. of rain or more.

"Absolute drought": April 9-25; August 15-September 1

"Partial drought": November 8-December 10.

"Dry spell": March 7-22; April 8-30; July 15-August 2; August 15-September 4; November 10-December 8

Wet Periods

The following definitions are adopted by the British Rainfall Organization.

A "rain spell" is a period of at least 15 consecutive days to each of which is credited 0.2 mm. of rain or more.

A "wet spell" is a period of at least 15 consecutive days to each of which is credited 1.0 mm. of rain or more.

There were no "rain spells" or "wet spells" in 1955.

Rainfall Duration

Hours	0.1-1.0	1.1-2.0	2.1-6.0	6.1-12.0	>12.0
Number of days	50	37	33	12	3

Continuous or Heavy Falls

The fall of the longest duration occurred on 11 December when 10 mm. fell in 12hr. 24min.

Heavy Falls in short periods

None occurred in 1955.

Rate of Rainfall (Jardi recorder)

The highest instantaneous rate of rainfall recorded by this instrument was 99 mm./hr. on 9 September. The maximum rate exceeded 50 mm./hr. on 11 August, 9 and 13 September.

DURATION OF BRIGHT SUNSHINE AND TOTAL SOLAR RADIATION FOR EACH DAY
Solar radiation received on a surface perpendicular to the solar beam

166 KEW OBSERVATORY: h_s (height of recorder above ground) = 13.3 m.

	JANUARY			FEBRUARY			MARCH			APRIL			MAY			JUNE		
	Total for day	Per cent. of pos- sible	Solar rad- iation	Total for day	Per cent. of pos- sible	Solar rad- iation	Total for day	Per cent. of pos- sible	Solar rad- iation	Total for day	Per cent. of pos- sible	Solar rad- iation	Total for day	Per cent. of pos- sible	Solar rad- iation	Total for day	Per cent. of pos- sible	Solar rad- iation
	hr.	%	J./cm. ²	hr.	%	J./cm. ²	hr.	%	J./cm. ²	hr.	%	J./cm. ²	hr.	%	J./cm. ²	hr.	%	J./cm. ²
1	...	...	...	2.9	32	370	7.3	68	1250	3.1	24	360	0.1	1	20	8.9	55	1550
2	...	...	...	3.2	35	370	7.0	64	1030	7.2	56	800	5.4	37	360	5.1	31	680
3	...	...	...	2.2	24	320	8.0	73	990	0.6	5	70	6.5	44	890	0.1	1	40
4	...	...	...	5.0	54	620	8.0	73	1380	0.7	5	100	9.3	62	1020	10.4	64	1940
5	...	...	...	0.9	1	90	2.6	23	330	3.1	24	380	8.2	55	900	13.3	81	2700
6	...	...	...	6.9	74	1080	2.0	18	130	2.7	21	300	1.4	9	130	9.9	61	1780
7	...	...	...	1.0	11	110	1.5	13	140	3.8	29	620	11.8	78	2220	6.5	40	1000
8	...	...	...	2.2	23	260	0.7	6	40	3.9	29	620	10.4	69	2010	2.5	15	280
9	2.5	31	190	0.3	3	10	4.1	36	280	10.4	78	1840	6.6	44	800	2.6	16	270
10	...	...	...	4.9	51	620	9.5	83	1330	...	...	...	6.1	40	780	6.9	42	970
11	0.6	7	60	7.0	73	1080	2.4	21	190	9.7	72	1890	10.3	67	2260	3.5	21	400
12	1.4	17	130	6.1	63	870	6.2	54	950	0.1	1	20	11.6	76	2130	3.3	20	480
13	...	...	...	4.3	44	440	6.7	58	670	6.1	45	1150	3.3	21	150	4.9	30	360
14	5.0	61	630	...	...	...	7.7	66	1300	11.3	83	2130	8.6	56	1830	0.5	3	30
15	...	...	...	6.9	70	1130	...	...	...	6.6	48	1050	12.3	79	1830	5.0	30	700
16	...	...	...	1.8	18	220	3.9	33	370	11.0	80	2390	6.2	40	790	4.6	28	490
17	5.0	60	730	6.9	69	1440	9.5	80	1800	12.0	87	2370	1.1	7	60	11.3	58	1750
18	6.8	81	860	1.3	13	140	7.7	65	1220	7.8	56	1480	10.8	69	2060	9.3	56	1730
19	5.5	65	730	0.1	1	10	8.6	72	1420	11.2	80	2310	11.4	73	1890	0.1	1	10
20	...	...	20	4.9	48	560	7.9	66	990	8.8	63	1670	6.9	44	970	1.5	9	180
21	...	...	...	...	...	...	9.0	74	1530	0.4	3	30	8.9	56	1120	7.5	45	820
22	...	...	...	...	...	...	...	...	30	9.9	70	1480	7.2	45	1120	8.7	52	880
23	...	...	...	...	...	...	2.0	16	120	4.1	29	440	8.5	54	1480	0.6	4	30
24	...	...	...	...	...	...	2.5	20	440	12.4	87	2320	5.0	31	380	7.1	43	490
25	...	...	...	...	...	...	1.2	10	100	11.4	79	2640	6.8	43	780	6.8	41	740
26	...	...	...	...	...	...	0.2	2	...	6.7	46	1020	5.6	35	660	10.6	64	1760
27	2.6	30	260	2.0	19	300	1.3	10	50	1.6	11	160	4.3	27	500	3.1	19	480
28	0.1	1	...	7.4	69	1500	7.0	56	760	...	...	...	...	...	...	5.9	36	1200
29	0.5	6	50	...	...	...	10.4	82	1810	6.2	42	570	9.0	56	1500	4.1	25	420
30	3.5	39	390	...	...	...	6.0	47	590	8.8	60	1150	14.9	92	3610	7.7	47	1070
31	1.2	13	60	...	...	...	6.3	49	840	...	...	...	10.4	64	1930	...	...	...
Mean	1.12		130	2.79		410	5.07		710	6.05		1050	7.38		1170	5.74		840

	JULY			AUGUST			SEPTEMBER			OCTOBER			NOVEMBER			DECEMBER		
	Total for day	Per cent. of pos- sible	Solar rad- iation	Total for day	Per cent. of pos- sible	Solar rad- iation	Total for day	Per cent. of pos- sible	Solar rad- iation	Total for day	Per cent. of pos- sible	Solar rad- iation	Total for day	Per cent. of pos- sible	Solar rad- iation	Total for day	Per cent. of pos- sible	Solar rad- iation
	hr.	%	J./cm. ²	hr.	%	J./cm. ²	hr.	%	J./cm. ²	hr.	%	J./cm. ²	hr.	%	J./cm. ²	hr.	%	J./cm. ²
1	0.3	2	40	11.6	75	1720	6.8	50	960	7.3	63	1300	3.6	37	330	...	...	...
2	12.5	76	2430	5.2	34	870	6.4	47	860	2.4	21	200	0.7	7	120	2.1	26	170
3	1.4	9	140	2.3	15	300	7.4	55	870	0.3	3	50	...	...	...	...	...	...
4	12.4	75	1830	3.3	22	270	3.4	25	420	8.1	71	1620	1.5	16	140	3.6	45	300
5	10.3	63	1420	11.7	77	2340	1.2	9	90	4.6	40	910	2.8	30	150	1.8	22	210
6	12.3	75	1900	1.8	12	140	9.2	69	1350	2.9	26	250	1.0	11	60	...	...	...
7	9.0	55	1970	6.1	40	630	8.7	66	1140	2.0	18	300	1.8	19	140	...	...	...
8	13.6	83	2320	11.2	75	1730	8.2	62	1180	0.9	8	60	1.5	16	90	...	...	30
9	9.9	61	2040	2.2	15	260	7.4	57	1320	5.8	52	940	1.8	20	90	...	...	...
10	10.9	67	2030	5.1	34	470	5.0	38	680	7.8	71	1580	4.1	45	330	4.8	54	360
11	4.6	28	690	3.9	26	280	0.1	1	10	2.6	24	230	...	...	...	...	...	...
12	14.2	87	2800	12.0	81	1630	1.7	13	200	3.8	35	450	0.5	6	60	5.2	66	500
13	7.7	47	1060	...	...	...	4.9	38	850	5.8	53	620	...	...	...	...	...	...
14	7.6	47	1050	0.7	5	40	7.6	60	1060	...	...	...	2.1	24	160	0.2	3	10
15	9.4	58	1080	12.5	85	2210	8.3	65	1250	...	...	...	5.5	62	480	...	...	...
16	11.6	72	1250	12.8	88	2460	...	...	10	8.8	82	1650	...	...	...	3.7	48	300
17	11.3	70	1800	7.1	49	950	9.2	73	1680	2.5	24	280	...	...	...	...	...	10
18	0.1	6	10	2.6	18	230	2.9	23	330	7.6	72	1610	2.6	30	190	0.9	12	80
19	7.4	46	880	6.9	48	980	9.1	73	1450	...	...	...	0.1	1	...	...	...	10
20	3.0	19	330	8.0	56	1120	9.6	78	1620	...	...	...	0.8	9	90	...	...	...
21	1.1	7	80	11.1	78	1250	1.9	15	230	...	...	...	0.8	9	60	1.6	20	90
22	10.3	65	1540	10.4	73	1330	1.5	12	100	0.1	1	...	...	...	...	...	...	...
23	10.7	68	1880	4.2	30	440	6.1	50	870	...	...	...	4.3	51	350	4.0	52	420
24	3.4	22	630	5.9	42	690	6.6	55	1180	4.1	40	390	0.9	11	60	...	...	30
25	8.0	51	1110	10.0	71	1990	5.4	45	730	8.3	82	1360	3.5	42	340	5.6	72	480
26	4.2	27	540	5.2	37	770	7.1	59	1290	1.5	15	220	...	...	...	0.1	1	10
27	11.0	70	1710	5.3	38	550	5.5	46	820	5.9	59	710	...	...	...	...	...	...
28	10.5	67	1650	0.2	1	10	4.8	41	550	6.0	61	1240	...	...	...	1.0	13	60
29	0.1	1	20	1.0	7	90	10.0	85	2270	6.4	65	1120	2.7	3	240	3.0	38	280
30	2.8	18	270	8.4	61	1000	0.4	3	30	0.1	1	10	...	...	...	2.1	27	150
31	12.1	78	1390	8.6	63	1150	...	...	...	5.7	59	710	...	...	...	5.9	75	570
Mean	7.86		1220	6.36		900	5.55		850	3.59		570	1.42		120	1.47		130
Annual Mean										4.53		680						

DURATION OF BRIGHT SUNSHINE

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Monthly and annual totals between exact hours, local apparent time

167 KEW OBSERVATORY: h_s (height of recorder above ground) = 13.3 m.

	Hour L.A.T.		5-6	6-7	7-8	8-9	9-10	10-11	11-12	12-13	13-14	14-15	15-16	16-17	17-18	18-19	19-20	20-21	Total	per cent. of possible
	3-4	4-5																		
	<i>hours</i>																			%
Jan.	-	-	-	-	...	1.3	2.7	5.1	6.2	6.7	5.9	4.9	1.9	...	-	-	-	-	34.7	13
Feb.	-	-	-	...	...	6.7	12.8	12.6	11.1	10.4	9.9	9.7	4.5	0.5	...	-	-	-	78.2	28
Mar.	-	-	...	0.9	8.1	13.5	15.5	17.2	18.3	18.9	15.5	19.5	18.2	9.9	1.7	...	-	-	157.2	43
Apr.	-	...	1.1	6.9	11.9	12.8	15.5	17.7	18.5	16.8	17.0	17.6	17.1	17.3	10.5	0.9	...	-	181.6	44
May	...	1.4	8.8	15.0	16.4	19.8	20.2	22.8	19.9	19.1	17.7	16.1	15.2	13.6	12.4	9.0	1.5	...	228.9	48
June	...	1.0	5.1	9.2	10.6	12.8	14.4	14.7	15.8	15.7	14.3	12.8	12.3	10.6	10.6	8.9	3.5	...	172.3	35
July	...	1.9	6.1	10.8	13.4	15.6	16.7	20.7	21.8	22.3	20.4	20.6	20.3	19.4	16.5	13.6	3.6	...	243.7	49
Aug.	-	...	0.8	6.5	11.9	15.0	15.7	18.5	19.3	19.5	18.7	20.0	18.0	15.0	12.6	5.8	...	-	197.3	44
Sept.	-	-	0.1	3.2	11.6	15.1	17.0	17.8	17.7	17.8	16.5	17.3	15.0	12.3	4.9	0.1	-	-	166.4	44
Oct.	-	-	-	...	4.3	8.7	12.3	12.9	13.5	15.1	14.6	13.8	10.0	5.9	0.2	-	-	-	111.3	33
Nov.	-	-	-	-	...	2.1	3.4	5.8	7.0	6.6	8.1	8.1	1.5	...	-	-	-	-	42.6	16
Dec.	-	-	-	-	...	0.6	5.4	6.0	8.6	10.5	7.7	6.5	0.3	...	-	-	-	-	45.6	19
Annual	...	4.3	22.0	52.5	88.2	124.0	151.6	171.8	177.7	179.4	166.3	166.9	134.3	104.5	69.4	38.3	8.6	...	1659.8	37

SOLAR RADIATION RECEIVED ON A SURFACE PERPENDICULAR TO THE SOLAR BEAM

Monthly and annual totals between exact hours, local apparent time

168 KEW OBSERVATORY: h_s = 13.3 m.

	Hour L.A.T.		5-6	6-7	7-8	8-9	9-10	10-11	11-12	12-13	13-14	14-15	15-16	16-17	17-18	18-19	19-20	20-21	Total
	3-4	4-5																	
	<i>joules per square centimetre</i>																		
Jan.	-	-	-	-	...	170	440	620	770	800	680	460	170	...	-	-	-	-	4110
Feb.	-	-	-	...	...	240	1030	1720	2010	1690	1340	1140	520	60	...	-	-	-	11560
Mar.	-	-	10	440	1330	1810	2230	2500	2570	2600	2300	2780	2230	990	300	...	-	-	22090
Apr.	-	...	350	1170	1850	2120	2870	3040	3430	3250	3360	2970	3100	2550	1330	200	...	-	31590
May	...	230	1390	2430	2570	3200	3290	3760	3290	3230	3280	2440	2100	2060	1780	980	170	...	36200
June	...	300	680	1250	1640	1950	2130	2120	2240	2250	1970	2180	1760	1700	1670	980	400	...	25220
July	...	370	950	1550	2240	2780	2910	3290	3700	3910	3320	3040	2980	2670	2190	1530	460	...	37890
Aug.	...	20	310	890	1530	2040	2340	3010	3260	3050	2870	2570	2380	1730	1250	580	30	...	27860
Sept.	-	...	70	780	1880	2330	2790	2970	2550	2670	2630	2630	2060	1480	540	20	...	-	25400
Oct.	-	-	...	140	920	1700	2200	2320	2200	2460	2260	1850	1110	620	46	...	-	-	17820
Nov.	-	-	-	...	30	190	270	490	590	480	570	610	230	20	...	-	-	-	3480
Dec.	-	-	-	-	...	130	430	590	850	930	660	450	30	...	-	-	-	-	4070
Annual	...	920	3760	8650	14230	19450	23620	26720	27260	27320	25240	23120	18670	13880	9100	4290	1060	...	247290

WIND

Mean speed and highest instantaneous speed recorded each day (0h. to 24h., G.M.T.) by the pressure-tube anemograph

169 KEW OBSERVATORY: h_a (height of anemograph above M.S.L.) = height of ground above M.S.L. + height of anemograph above ground
= 5 m. + 23 m.

	JANUARY		FEBRUARY		MARCH		APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER		OCTOBER		NOVEMBER		DECEMBER	
	Mean	Max. gust	Mean	Max. gust	Mean	Max. gust	Mean	Max. gust	Mean	Max. gust	Mean	Max. gust	Mean	Max. gust	Mean	Max. gust	Mean	Max. gust	Mean	Max. gust	Mean	Max. gust	Mean	Max. gust
	metres per second																							
1	6.9	17	5.6	20	2.4	8	1.4	5	4.5	17	4.9	14	3.4	13	1.8	9	3.4	12	1.1	6	0.9	6	0.7	4
2	7.3	17	4.2	13	3.8	10	3.5	14	6.7	17	5.3	11	3.7	13	0.9	9	5.5	19	1.3	7	4.4	14	1.9	11
3	11.2	24	5.4	18	3.2	9	4.7	16	6.7	19	5.2	14	4.5	16	1.6	9	2.7	9	0.5	4	4.8	14	4.3	16
4	8.3	24	4.0	15	3.6	14	5.4	15	8.7	22	5.1	17	3.8	16	0.8	6	3.3	11	2.6	10	3.1	15	1.7	6
5	5.0	14	3.8	16	6.4	21	3.3	9	7.7	21	3.4	12	2.1	11	2.0	8	4.1	15	5.3	17	2.8	10	2.8	12
6	6.2	14	3.3	15	7.9	21	2.2	11	5.5	22	5.8	18	1.9	9	2.7	10	1.9	9	8.5	26	2.6	11	5.0	16
7	4.3	9	5.8	19	6.6	15	3.6	12	3.7	12	4.1	15	2.7	11	2.8	13	1.4	6	3.1	14	4.4	15	5.1	16
8	2.6	10	6.5	19	4.7	14	4.4	13	6.0	19	2.4	10	5.2	16	2.5	10	2.4	10	2.3	10	3.3	11	1.1	11
9	1.1	8	4.5	12	7.3	20	4.4	13	5.8	18	6.5	17	6.0	17	1.2	7	3.5	15	1.0	6	6.1	18	5.0	17
10	8.2	20	3.6	11	7.1	17	4.5	14	5.3	16	2.7	11	5.2	15	4.7	13	2.0	8	1.8	9	5.9	19	6.0	19
11	4.0	15	2.8	9	6.7	17	5.0	17	3.3	10	3.9	15	2.1	13	4.5	12	4.0	15	0.2	5	6.1	21	4.7	14
12	1.4	9	4.9	17	8.2	17	2.0	8	5.0	16	7.0	19	1.9	8	5.6	16	2.5	7	0.9	5	1.6	8	5.4	15
13	3.2	11	5.3	15	5.2	13	2.5	10	6.9	19	3.4	15	0.9	7	4.5	14	4.5	21	1.1	5	4.8	14	4.1	11
14	3.1	14	3.2	11	3.6	12	3.2	11	4.7	20	4.7	17	1.2	13	1.5	8	4.7	18	2.1	9	4.7	14	5.4	16
15	2.7	11	4.1	14	1.3	7	3.7	9	4.7	19	2.7	9	2.0	8	1.9	9	4.1	16	4.2	17	3.3	11	2.3	11
16	6.1	26	2.9	11	4.3	14	4.2	13	4.5	16	2.8	10	0.9	8	2.8	9	2.7	11	2.7	11	1.9	9	3.8	12
17	3.4	14	4.4	13	5.4	17	4.7	12	6.2	24	6.3	11	1.5	8	5.2	14	2.9	10	2.7	11	2.9	10	2.1	11
18	3.4	11	1.8	9	3.6	13	4.7	12	5.9	20	6.2	14	4.8	14	4.4	13	1.7	9	2.6	11	2.8	9	1.8	9
19	0.6	5	5.8	18	4.3	18	4.1	11	4.2	16	3.3	11	6.3	15	3.6	11	1.6	8	7.1	20	2.8	9	1.9	7
20	2.5	10	3.1	12	2.6	14	1.6	8	2.1	16	3.4	9	3.9	12	1.3	7	1.8	8	2.9	13	3.2	14	4.0	12
21	2.3	11	7.3	19	2.1	10	3.3	10	2.4	17	2.7	11	2.2	9	3.6	9	2.4	11	6.8	23	4.0	11	3.3	11
22	3.3	15	5.0	11	2.3	8	2.1	10	2.3	9	3.6	12	1.6	7	3.5	9	4.2	15	7.1	21	1.3	6	2.6	13
23	4.6	16	6.2	13	8.1	29	2.6	11	2.1	9	6.0	17	1.1	10	2.6	8	0.9	5	1.9	8	3.3	11	5.1	15
24	2.8	9	7.3	16	7.6	26	4.8	13	3.1	9	4.4	13	3.3	11	2.7	9	3.6	13	2.1	10	4.7	17	4.0	14
25	3.5	13	7.3	15	1.9	9	2.8	11	4.5	12	1.4	6	5.6	15	4.2	13	3.6	11	3.0	9	1.9	9	3.5	16
26	4.1	12	5.3	13	7.2	20	2.3	11	5.8	13	1.8	8	5.1	13	2.5	9	3.1	10	4.5	14	1.7	5	6.8	20
27	2.5	10	3.9	10	6.2	13	5.3	17	1.2	7	0.7	9	4.3	13	3.4	12	3.3	14	2.7	9	1.7	6	6.4	21
28	2.8	11	2.8	10	6.2	14	5.4	14	1.8	6	3.6	13	5.0	12	3.7	11	3.0	11	3.7	14	1.9	7	9.2	24
29	5.2	16			5.9	16	3.5	11	3.2	11	5.1	12	2.5	10	1.9	7	1.9	7	1.9	8	3.0	10	5.6	19
30	5.4	15			6.8	16	2.9	12	2.8	9	2.0	8	2.3	8	1.6	8	3.0	11	1.7	7	0.7	3	4.4	15
31	6.0	17			3.1	11			3.2	9			1.0	8	2.0	7			1.2	6			3.0	13

WIND

Monthly and annual means of mean wind speed between exact hours G.M.T.

170 KEW OBSERVATORY: h_a = 5 m. + 23 m.

	Hour G.M.T.																								
	0-1	1-2	2-3	3-4	4-5	5-6	6-7	7-8	8-9	9-10	10-11	11-12	12-13	13-14	14-15	15-16	16-17	17-18	18-19	19-20	20-21	21-22	22-23	23-24	Mean
	metres per second																								
Jan.	3·9	3·8	3·8	3·7	3·8	4·0	4·1	4·5	4·4	4·7	4·7	4·8	4·9	5·0	4·9	4·6	4·4	4·4	4·3	4·1	4·5	4·2	4·1	4·0	4·3
Feb.	4·0	4·2	4·2	4·2	4·4	4·1	4·1	4·2	4·5	5·0	5·4	5·5	5·8	5·6	5·6	5·2	5·1	4·5	4·3	4·6	4·5	4·5	4·2	4·1	4·7
Mar.	3·9	3·8	3·7	3·9	4·0	4·3	4·4	4·4	5·1	5·7	6·1	6·5	6·6	6·2	6·3	6·4	6·2	5·8	5·2	4·8	4·5	4·4	4·2	3·9	5·0
Apr.	2·8	2·5	2·4	2·3	2·2	2·4	2·9	3·4	4·0	4·3	4·3	4·6	4·4	4·8	5·0	4·8	4·9	4·7	4·2	3·6	3·5	3·2	2·8	2·7	3·6
May	3·8	3·5	3·5	3·5	3·3	3·3	3·8	4·2	4·8	5·3	5·7	6·0	5·9	5·7	5·7	5·9	5·3	5·1	4·7	4·2	3·9	3·9	3·8	3·8	4·5
June	3·1	3·1	2·8	2·9	3·1	3·5	3·6	4·2	4·4	4·7	4·9	5·1	4·9	5·0	5·1	4·9	4·8	4·7	4·3	4·0	3·5	3·5	3·3	3·0	4·0
July	2·0	1·9	2·0	2·3	2·2	2·3	2·7	3·0	3·4	3·7	4·1	4·0	4·1	4·1	4·2	4·1	4·1	4·0	3·5	2·9	2·7	2·3	2·1	3·2	
Aug.	1·7	1·6	1·7	1·9	1·8	1·9	2·0	2·3	2·6	3·2	3·6	3·9	3·9	3·9	3·9	3·8	3·9	3·8	3·7	3·1	2·8	2·7	2·5	2·2	2·8
Sept.	2·1	2·0	2·1	2·0	1·9	2·1	2·2	2·5	3·1	3·7	4·2	4·5	4·7	4·5	4·3	4·2	4·0	3·3	2·7	2·8	2·5	2·3	2·1	2·1	3·0
Oct.	2·7	2·5	2·5	2·5	2·4	2·5	2·2	2·2	2·4	2·9	3·4	3·8	3·9	3·9	3·9	3·7	3·6	3·2	3·0	2·8	2·7	2·6	2·5	2·5	2·9
Nov.	2·9	2·7	2·7	2·5	2·7	2·5	2·4	2·6	2·9	3·1	3·5	3·8	3·9	4·0	4·2	3·9	3·5	3·4	3·4	3·5	3·3	3·4	3·2	3·0	3·2
Dec.	3·8	3·7	3·6	3·6	3·7	3·7	3·6	3·6	3·7	3·9	4·2	4·7	4·8	4·6	4·1	4·3	4·1	3·9	3·9	3·9	3·8	3·8	4·0	3·8	4·0
Annual	3·1	2·9	2·9	2·9	3·0	3·1	3·2	3·4	3·8	4·2	4·5	4·8	4·8	4·8	4·8	4·7	4·5	4·2	4·0	3·7	3·5	3·4	3·3	3·1	3·8

DISTRIBUTION OF WIND SPEED, EXTREME VELOCITIES AS RECORDED BY PRESSURE-TUBE ANEMOGRAPH

171 KEW OBSERVATORY: h_a = 5 m. + 23 m.

	DISTRIBUTION OF WIND SPEED								EXTREME VELOCITIES				
	More than 17.1 m./sec.		10.8 to 17.1 m./sec.		5.5 to 10.7 m./sec.	1.6 to 5.4 m./sec.	Less than 1.6 m./sec.	No record	Highest hourly wind			Highest gust	
	Dates of occurrence	Duration	No. of days	Duration	Duration	Duration	Duration	Duration	Veer from N.	Speed	Hour ended	Speed	Date
		hr.		hr.	hr.	hr.	hr.	hr.	°	m./sec.	day h.	m./sec.	day h. m.
Jan.	-	0	4	29	201	380	134	0	70	14	4 06	26	16 15 25
Feb.	-	0	1	1	243	369	59	0	80	11	21 08	20	1 20 50
Mar.	-	0	3	15	329	320	80	0	200	15	23 12	29	23 12 05
Apr.	-	0	0	0	141	455	124	0	210	8	27 16	17	11 14 10
May	-	0	2	3	253	389	99	0	220	12	4 13	24	17 22 30
June	-	0	0	0	214	380	126	0	250	10	12 12	19	12 17 15
July	-	0	0	0	128	403	213	0	70	10	9 14	17	9 13 15
Aug.	-	0	0	0	61	480	203	0	50	8	12 11	16	12 10 50
Sept.	-	0	0	0	73	491	156	0	230	10	2 11	21	13 12 55
Oct.	-	0	1	1	103	386	254	0	280	11	6 13	26	6 11 40
Nov.	-	0	0	0	98	461	161	0	200	9	11 12	21	11 04 45
Dec.	-	0	0	0	196	410	138	0	200	11	28 11	24	28 15 05
Year	-	0	11	49	2040	4924	1747	0	200	15	Mar. 23 12	29	Mar. 23 12 05

172 KEW OBSERVATORY

	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER	OCTOBER	NOVEMBER	DECEMBER
	30 cm. 122 cm.	30 cm. 122 cm.	30 cm. 122 cm.	30 cm. 122 cm.	30 cm. 122 cm.	30 cm. 122 cm.	30 cm. 122 cm.	30 cm. 122 cm.	30 cm. 122 cm.	30 cm. 122 cm.	30 cm. 122 cm.	30 cm. 122 cm.
	<i>degrees Absolute</i>											
1	79.1 80.9	79.2 79.0	74.3 78.2	77.3 79.1	84.7 82.0	86.8 83.9	90.1 86.9	91.7 88.7	91.3 89.3	85.7 87.4	78.8 84.3	78.2 82.2
2	78.3 81.3	78.8 79.1	74.3 78.1	77.6 79.1	84.0 82.2	87.3 84.1	89.4 87.0	92.1 88.8	91.9 89.3	86.3 87.4	78.2 84.1	78.4 82.0
3	77.7 81.3	78.7 79.2	74.2 78.1	78.8 79.1	83.8 82.3	87.4 84.3	89.1 86.9	92.4 88.8	91.3 89.3	85.8 87.3	79.6 83.8	79.3 82.1
4	77.1 81.2	78.4 79.3	74.4 77.9	79.7 79.1	84.0 82.4	87.1 84.3	88.9 87.1	91.2 88.9	91.2 89.3	85.1 87.2	81.6 83.6	79.2 81.9
5	76.8 81.1	78.4 79.4	74.5 77.9	80.6 79.2	84.0 82.5	87.0 84.5	88.9 87.0	91.4 89.0	90.8 89.3	85.3 87.1	81.9 83.6	78.1 81.9
6	76.6 80.9	77.7 79.5	74.9 77.9	80.7 79.3	84.0 82.5	88.1 84.6	89.2 87.1	91.7 88.9	89.9 89.3	85.2 86.9	82.3 83.5	79.5 81.8
7	76.8 80.8	77.3 79.4	74.6 77.8	80.7 79.6	83.8 82.6	88.5 84.7	89.7 87.1	90.7 88.9	89.4 89.3	84.5 86.7	82.8 83.6	80.4 81.8
8	76.6 80.7	78.6 79.4	74.6 77.8	81.6 79.7	84.1 83.7	88.3 84.8	90.6 87.0	89.6 88.7	89.7 89.3	85.2 86.8	82.7 83.6	80.2 81.8
9	76.3 80.6	78.5 79.4	74.8 77.8	82.2 80.1	83.9 82.9	88.1 85.0	90.3 87.1	90.0 89.0	90.5 89.1	85.2 86.6	82.8 83.6	79.6 81.8
10	76.4 80.6	78.2 79.3	74.6 77.8	82.4 80.0	84.8 82.9	86.4 85.1	90.6 87.3	89.9 88.8	89.3 89.1	85.4 86.6	82.9 83.7	80.2 81.8
11	78.0 80.3	77.1 79.5	74.7 77.8	82.6 80.2	84.7 82.9	86.1 85.2	90.6 87.3	90.1 88.7	88.9 89.1	85.1 86.6	83.3 83.7	79.8 81.8
12	76.4 79.6	76.3 79.4	74.6 77.8	83.2 80.4	84.8 83.1	86.2 85.1	91.5 87.3	90.7 88.9	88.8 89.0	84.9 86.6	82.7 83.8	78.8 81.8
13	75.8 79.5	76.1 79.4	74.6 77.7	83.3 80.6	85.2 83.1	86.3 85.1	92.6 87.4	90.4 88.7	88.0 88.8	85.0 86.5	82.1 83.9	77.7 81.8
14	75.2 79.2	75.7 79.3	74.9 77.7	83.1 80.8	84.9 83.1	86.7 85.1	93.1 87.6	89.8 88.5	87.3 88.7	85.3 86.3	82.1 83.8	79.1 81.7
15	74.7 79.2	75.7 79.2	76.4 77.7	82.7 80.9	84.2 83.2	87.6 85.1	92.8 87.8	89.8 88.6	86.6 88.6	85.7 86.8	81.6 83.8	79.9 81.6
16	74.7 79.0	75.3 79.2	77.1 77.7	82.1 81.1	84.1 83.3	88.7 85.2	93.2 88.0	90.7 88.6	86.6 88.4	83.7 86.2	80.1 83.7	79.8 81.5
17	74.8 78.8	74.9 79.1	77.5 77.8	82.1 81.2	83.9 83.2	88.9 85.2	93.1 88.2	91.4 88.6	86.3 88.3	82.9 86.1	80.3 83.7	79.5 81.5
18	74.5 78.7	74.8 79.0	76.7 78.0	82.3 81.3	83.0 83.2	88.4 85.4	93.3 88.3	91.4 88.6	86.6 88.1	81.6 85.8	79.9 83.4	79.2 81.5
19	74.3 78.7	74.6 78.9	76.8 78.1	82.4 81.3	82.9 83.3	88.3 85.5	91.9 88.4	91.8 88.6	86.2 87.5	82.3 85.9	79.9 83.3	77.5 81.3
20	74.1 78.5	74.5 78.7	76.2 78.2	82.1 81.3	82.7 83.4	88.3 85.7	91.3 88.6	92.0 88.8	86.3 87.9	82.7 85.7	80.1 83.3	77.1 81.4
21	74.1 78.4	74.4 78.7	75.9 78.2	82.3 81.3	83.2 83.1	88.7 85.7	91.0 88.6	92.5 88.9	86.8 88.1	83.4 85.6	80.6 83.1	77.9 81.3
22	74.6 78.4	74.5 78.5	76.2 78.2	81.5 81.4	82.7 83.1	88.9 85.9	90.7 88.6	92.7 88.9	88.2 87.9	82.7 85.3	80.6 83.1	76.8 81.2
23	75.8 78.3	74.5 78.4	76.8 78.2	82.1 81.4	83.5 83.1	89.7 85.8	91.0 88.6	92.9 89.2	88.1 87.6	82.9 85.3	80.4 82.9	77.9 81.0
24	76.2 78.3	74.8 78.4	78.5 78.2	82.4 81.4	85.7 83.1	89.8 86.0	91.6 88.4	92.4 89.2	87.9 87.5	83.1 85.2	80.2 82.9	78.2 80.9
25	76.3 78.3	75.1 78.4	79.0 78.3	82.3 81.4	85.4 83.2	90.2 86.2	90.7 88.3	92.4 89.3	88.6 87.7	82.9 85.2	79.2 82.9	78.2 80.9
26	76.7 78.3	74.9 78.3	80.3 78.5	82.8 81.7	85.4 83.3	90.5 86.3	90.7 88.5	91.8 89.3	87.6 87.7	83.3 85.1	78.6 82.8	79.0 80.9
27	77.1 78.4	74.6 78.2	80.3 78.6	83.5 81.6	85.4 83.3	90.9 86.5	90.8 88.6	92.0 89.3	87.1 87.7	82.9 85.1	78.5 82.7	79.2 81.3
28	76.8 78.5	74.4 78.2	78.9 78.8	83.7 81.7	86.2 83.5	90.3 86.6	91.8 88.8	91.7 89.4	86.7 87.7	81.7 85.1	79.1 82.8	80.4 80.8
29	78.0 78.7		77.9 79.0	84.1 81.9	85.6 83.6	90.1 86.7	91.6 88.6	91.3 89.4	85.7 87.6	80.4 84.8	78.9 82.4	80.3 80.8
30	78.9 78.7		77.5 79.1	84.7 81.9	85.8 83.8	90.2 86.8	91.7 88.6	90.3 89.4	86.8 87.5	80.4 84.8	77.9 82.2	79.6 80.9
31	78.9 78.9		76.7 79.1		86.7 83.9		91.6 88.7	91.1 89.4		79.3 84.6		78.1 81.0
Mean	76.4 79.5	76.3 79.0	76.2 78.1	81.9 80.6	84.4 83.1	88.3 85.3	91.1 87.9	91.3 88.9	88.3 88.5	83.7 86.1	80.7 83.4	78.9 81.5
	Year						83.2 83.5					

MINIMUM TEMPERATURE "ON THE GRASS" DURING THE INTERVAL 21h. TO 9h., G.M.T.

173 KEW OBSERVATORY

	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER	OCTOBER	NOVEMBER	DECEMBER
	<i>degrees Absolute</i>											
1	71.4	74.8	61.8	66.8	74.6	79.2	82.5	78.8	80.3	72.5	68.4	72.5
2	74.3	70.2	62.1	65.1	79.6	79.3	78.7	81.4	89.1	78.8	67.6	70.9
3	74.6	75.2	65.7	74.1	75.8	85.7	83.6	87.8	81.6	74.1	79.2	75.6
4	72.1	72.6	62.7	78.7	79.8	83.6	79.1	80.9	81.2	70.9	84.7	70.1
5	72.6	72.3	67.9	80.0	80.3	73.4	77.1	82.3	81.3	77.4	75.3	68.6
6	74.4	67.6	70.8	70.1	79.7	79.2	77.5	81.9	78.1	80.3	75.4	82.3
7	74.7	70.1	70.8	70.7	76.8	85.8	78.7	79.1	77.4	77.7	77.4	81.8
8	73.5	78.1	68.6	82.2	75.8	82.3	81.9	72.5	79.7	83.4	75.2	68.5
9	71.9	75.0	70.3	77.9	83.1	82.8	85.1	75.5	84.8	74.6	78.1	71.3
10	67.1	70.2	69.6	78.1	80.1	74.1	83.8	84.1	79.8	77.8	79.2	76.8
11	74.8	64.8	71.2	80.1	77.3	73.1	83.0	83.2	79.6	74.2	83.6	76.2
12	62.4	65.9	70.8	76.2	74.1	81.2	85.8	87.5	78.1	78.2	75.2	71.9
13	64.1	69.2	69.9	79.4	81.2	81.9	85.2	85.4	77.5	80.3	74.5	70.5
14	71.9	67.1	69.7	70.1	74.2	76.4	85.9	87.2	78.3	77.2	79.8	80.7
15	-	69.1	74.1	70.6	71.9	87.9	87.9	80.8	76.2	81.9	75.0	73.5
16	73.8	63.8	73.9	70.2	75.4	80.2	83.3	81.2	77.9	66.4	67.9	72.8
17	64.1	62.2	72.1	70.6	78.7	83.0	82.1	83.2	75.8	72.1	72.8	71.9
18	64.7	69.3	63.5	76.8	73.2	79.6	88.6	87.5	76.7	64.8	68.9	73.0
19	61.8	61.3	69.8	74.8	72.4	80.3	86.3	89.3	74.9	76.9	72.3	64.1
20	62.9	56.3	61.9	66.2	69.1	85.8	82.8	83.1	74.6	82.5	75.2	73.0
21	74.3	71.5	61.8	68.7	70.8	79.1	82.5	85.0	77.4	79.9	79.1	75.4
22	78.1	70.6	63.4	66.4	-	81.1	83.6	85.2	89.6	77.7	77.4	63.6
23	77.1	72.4	76.3	69.1	72.3	87.4	77.4	84.1	84.2	79.2	72.1	78.6
24	74.7	72.9	80.2	74.9	84.2	86.8	81.7	82.7	78.5	76.4	73.0	74.8
25	70.1	73.8	74.8	65.8	79.0	86.2	83.6	80.5	85.5	76.2	68.0	69.0
26	75.3	72.3	79.1	76.3	79.1	80.4	83.2	79.6	76.8	79.4	71.6	76.3
27	74.7	71.1	77.7	77.7	82.6	86.0	83.0	83.2	74.5	72.4	68.6	75.5
28	68.2	60.4	70.3	82.2	81.9	78.4	85.5	82.7	80.8	70.6	76.8	83.8
29	77.6		66.3	79.5	80.3	85.7	85.5	87.9	72.9	66.9	69.1	76.9
30	80.7		69.1	78.6	71.9	81.3	88.0	79.9	80.2	72.2	66.6	74.7
31	74.5		64.4		75.2		79.6	80.7		65.5		67.1
Mean	71.7*	69.3	69.4	73.9	77.0*	81.6	83.0	82.7	79.4	75.4	74.3	73.6
	Year						76.0					

*Mean for 30 days.

The initial 2 or 3 of the readings is omitted, i.e. 275.0 degrees is printed 75.0

The minimum "on the grass" refers to the interval from 21h. on the previous day to 9h. on the day to which it is entered.

Add 0.16° to obtain temperature in degrees Kelvin where $T(^{\circ}\text{K}) = t(^{\circ}\text{C.}) + 273.16$.

ELECTRICAL OBSERVATIONS, UNDERGROUND LABORATORY, WILSON METHOD

Mean value for periods of twenty minutes about 14h. 30m.

F = Potential gradient, unit 1 v./cm.

174 KEW OBSERVATORY

	JANUARY F	FEBRUARY F	MARCH F	APRIL F	MAY F	JUNE F	JULY F	AUGUST F	SEPTEMBER F	OCTOBER F	NOVEMBER F	DECEMBER F
1	-	-	-	-	-	-						
2	-	2.59	-	-	-	-						
3	-	-	-	-	-	-						
4	-	-	-	-	-	-						
5	-	-	-	-	-	-						
6	-	-	-	-	-	1.56						
7	-	-	-	-	-	-						
8	-	-	-	-	-	-						
9	-	-	-	-	-	-						
10	-	-	-	-	-	-						
11	7.10	-	-	-	-	-						
12	-	-	-	-	1.51	-						
13	-	-	-	-	-	3.16						
14	-	-	-	-	-	-						
15	-	-	-	-	-	-						
16	-	-	2.35	-	-	3.23						
17	-	-	-	-	-	-						
18	-	-	-	-	-	-						
19	-	-	-	4.20	-	-						
20	-	-	-	5.78	-	-						
21	-	-	-	6.00	-	-						
22	-	-	-	-	-	-						
23	-	-	-	-	-	-						
24	-	-	2.64	-	3.28	-						
25	-	-	-	-	3.70	-						
26	-	-	-	1.78	-	-						
27	-	-	-	-	-	-						
28	-	-	-	-	-	-						
29	-	-	-	-	-	-						
30	-	-	-	-	-	-						
31	-	-	-	-	-	-						
Mean	-	-	2.49	4.44	2.83	2.65						
No. of days used	1	1	2	4	3	3						

No observations available*

*See note in introduction

TABLES 175-177. No data are available. See note in Introduction.

AIR POLLUTION: HOURLY MEANS FOR EACH MONTH

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178 KEW OBSERVATORY

Complete days only

	Hour G.M.T.																								Mean	No. of days used
	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	to	to	to	to	to	to	to	to	to	to	to	to	to	to	to	to	to	to	to	to	to	to	to		
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24		
	<i>milligrams per cubic metre</i>																									
Jan.	0.17	0.13	0.11	0.11	0.08	0.07	0.08	0.11	0.15	0.18	0.17	0.20	0.18	0.17	0.16	0.17	0.19	0.21	0.24	0.25	0.24	0.25	0.22	0.20	0.17	30
Feb.	0.11	0.08	0.05	0.04	0.03	0.04	0.04	0.07	0.09	0.10	0.07	0.07	0.09	0.07	0.08	0.09	0.08	0.14	0.19	0.22	0.21	0.19	0.17	0.15	0.10	20
Mar.	*Instrument out of order due to freeze up																									
Apr.	0.09	0.08	0.06	0.06	0.07	0.07	0.09	0.08	0.09	0.07	0.06	0.06	0.05	0.05	0.03	0.04	0.06	0.08	0.15	0.16	0.18	0.17	0.16	0.14	0.09	30
May	0.03	0.02	0.03	0.03	0.03	0.03	0.05	0.04	0.04	0.01	0.02	0.02	0.01	0.01	0.01	0.02	0.02	0.03	0.05	0.06	0.06	0.06	0.07	0.05	0.03	29
June	0.04	0.04	0.04	0.05	0.06	0.06	0.07	0.07	0.04	0.03	0.03	0.02	0.02	0.01	0.01	0.01	0.01	0.01	0.02	0.02	0.03	0.04	0.04	0.04	0.03	28
July	0.00	0.00	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	30
Aug.	0.06	0.05	0.05	0.05	0.05	0.05	0.07	0.09	0.07	0.06	0.05	0.03	0.02	0.01	0.01	0.01	0.01	0.01	0.01	0.02	0.03	0.05	0.05	0.05	0.04	30
Sept.	0.03	0.02	0.03	0.02	0.03	0.03	0.04	0.05	0.05	0.03	0.03	0.02	0.01	0.00	0.00	0.00	0.02	0.01	0.03	0.04	0.03	0.04	0.03	0.03	0.03	29
Oct.	0.08	0.07	0.07	0.07	0.06	0.06	0.06	0.06	0.07	0.07	0.07	0.07	0.06	0.05	0.07	0.09	0.10	0.17	0.20	0.23	0.23	0.21	0.18	0.15	0.11	26
Nov.	0.16	0.16	0.15	0.15	0.14	0.14	0.16	0.19	0.22	0.24	0.23	0.23	0.21	0.21	0.27	0.32	0.37	0.40	0.43	0.37	0.36	0.30	0.26	0.25	0.25	28
Dec.	0.13	0.11	0.07	0.07	0.07	0.07	0.08	0.11	0.14	0.18	0.24	0.20	0.19	0.16	0.19	0.23	0.24	0.25	0.31	0.32	0.32	0.30	0.26	0.20	0.19	18
Year	0.08	0.07	0.06	0.06	0.06	0.06	0.07	0.08	0.09	0.09	0.09	0.08	0.08	0.07	0.08	0.09	0.10	0.12	0.15	0.15	0.15	0.15	0.13	0.11	0.09	298
Winter	0.14	0.12	0.09	0.09	0.08	0.08	0.09	0.12	0.15	0.17	0.18	0.17	0.17	0.15	0.17	0.20	0.22	0.25	0.29	0.29	0.28	0.26	0.23	0.20	0.18	96
Spring	*Instrument out of action in March																									
Autumn	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.06	0.05	0.05	0.05	0.03	0.03	0.03	0.05	0.06	0.09	0.11	0.13	0.13	0.13	0.11	0.09	0.07	55
Summer	0.03	0.03	0.03	0.03	0.04	0.04	0.05	0.05	0.04	0.03	0.03	0.02	0.01	0.01	0.01	0.01	0.01	0.01	0.02	0.03	0.03	0.04	0.04	0.03	0.03	117

*See note in introduction